

Semmering Railway

1. World Heritage Property Data

1.1 - Name of World Heritage property

Semmering Railway

1.2 - World Heritage property details


1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Semmering Railway	47.649 / 15.828	156.18	8581.21	8737.39	1998
Total (ha)		156.18	8581.21	8737.39	

Comment

New maps requested by the WHC, the new map was sent to the WHC in March 2023. During mapping, the area of the buffer zone was recalculated to 8,590.91 ha, but the limits of the buffer zones remain unchanged.

1.4 - Map(s)

Title	Date	Link to source
World Heritage Semmering Railway. Core zone and buffer zone boundaries	2009	

Comment

The new maps following the format requests by the WHC were submitted in March 2023.

1.5 - Web and Social Media data of the property (if applicable)

1. [UNESCO WHS Semmering-Railway \(Tourismusregion Niederösterreich Süd\)](#)

Comment

<http://www.semmeringbahn.at/> Remark: <https://whc.unesco.org/en/list/785> contains some factual errors that shall be corrected in due time.

2. Other Conventions/Programmes under which the World Heritage property is protected (if applicable)

2.1 - Records indicate that your World Heritage property (in whole or in part) is designated and/or protected under the Conventions/programmes shown in the prefilled table below. Please check and amend as necessary.

		The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme	The World Heritage property (in whole or in part) <u>is not</u> designated and/or protected under this convention/programme
2.1.1	International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.2	List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme		×
2.1.5	Global Geoparks Network UNESCO Global Geoparks		×

2.2 - Please provide comments on 2.1 if necessary

2.3 - Do your national authorities intend to request the granting of Enhanced Protection (if relevant) under the Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict for the World Heritage property in the next three years?

No

2.4 - Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands

of International Importance (The Ramsar List), if relevant, in the next three years?

No

2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if relevant) in the next three years?

No

2.6 - Do your national authorities intend to apply for whole or part of World Heritage property to be designated as a UNESCO Global Geopark (if relevant) in the next three years?

No

2.7 - Please indicate the level of cooperation at property level between designations under different Conventions/Programmes

2.7.1	1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.2	Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.3	Convention on Wetlands of International Importance (Ramsar Convention)	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	

2.8 - Please add any further comments on cooperation with the other designation(s)/programme(s)

2.9 - Are you aware of any elements associated with the World Heritage property that have been inscribed on the Representative List of the Intangible Cultural Heritage?

Yes

2.10 - Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage of which you are aware

Avalanche Risk Management - file No. 01380

2.11 - Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

Yes

2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World

Programme of which you aware.

The Documents on the Semmering Railway from the Imperial & Royal Historical Museum of Austrian Railways; inscribed 2017, located at the Technical Museum Vienna

3. Statement of Outstanding Universal Value

3.1 - Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

Statement of Outstanding Universal Value

Brief synthesis

The Semmering Railway, constructed between 1848 and 1854 over 41 km of high mountains, is one of the greatest feats of civil engineering during the pioneering phase of railway building. Set against a spectacular mountain landscape, the railway line remains in use today thanks to the quality of its tunnels, viaducts, and other works, and has led to the construction of many recreational buildings along its tracks.

The property Semmering Railway begins at Gloggnitz station, at an altitude of 436 m, reaches its highest point after 29 km over the pass at 895 m above sea level, and ends 12 km further away at the Mürzzuschlag station, 677 m above sea level.

The line can be divided into four sections. The first runs from Gloggnitz to Payerbach stations, following the left-hand slopes of the Schwarza valley; the next section crosses the valley by taking the Schwarza viaduct to reach Eichberg Station, and the third section enters the Auerbach valley to continue through dense forest to Klamm-Schottwien station. After passing through the Klamm Tunnel, it reaches the Adlitzgraben and the Alpine terrain itself. After a series of tunnels and viaducts, the trains pass through the Weinzettelwand, the Krauselklause, and the Polleroswand, taking several tunnel sections. In the last and most dramatic section of the whole route, the two-storey curving viaduct goes over the Kalte Rinne, and after passing through the Wolfsberg and the Kartnerkogels, the train passes through the 1,431 m Semmering Tunnel before reaching Semmering station. It then descends gradually along the right-hand slope of the Roschnitz valley, through Stienhaus and Spital am Semmering, before arriving at Mürzzuschlag.

In total, the fourteen tunnels are 1,477 m long, nearly one-tenth of the entire line; coincidentally, the sixteen major viaducts also total 1,477 m in length. There are 118 smaller arched stone bridges and 11 iron bridges. Most of the portals of the tunnels are simple but monumental in design, and feature various kinds of ornamentalations. Support structures are largely in stone, but brick was used for the arches of the viaducts and tunnel facings. The 57 two-storey attendants' houses, located at approximately 700 m intervals, are a very characteristic feature of the Semmering line and were built from coursed rubble masonry with brick trimmings. Little remains of the original stations, which were planned as no more than relay stations and watering points, but later became converted into more impressive structures as tourist traffic increased.

The appearance of the whole line changed significantly between 1957 and 1959, when electrical poles were erected to carry the contact wires required by electrical locomotives. The Semmering pass itself is well known for the 'summer architecture' of the villas and hotels, as it became one of the first purpose-built Alpine resorts in the decades following the opening of the railway line.

Criterion (ii): The Semmering Railway represents an outstanding technological solution to a major physical problem in the construction of early railways.

Criterion (iv): With the construction of the Semmering Railway, areas of great natural beauty became more easily accessible and as a result these were developed for residential as well recreational use, creating a new form of landscape.

Integrity

The inscribed property covers an area of 156 ha, with a buffer zone of 8,581 ha, and includes all attributes necessary to convey its Outstanding Universal Value. The railway line itself and the civil engineering works have been continuously in function since 1854, and the property's functional integrity has therefore been maintained. The continued operation of the line is a sound testimony to the engineering genius of Carl von Ghega, the project engineer. The property also derives its appearance from the villas and hotels constructed in its immediate vicinity in the late 19th and early 20th centuries, showing the impact of the railway line on the surrounding landscape. The turn-of-the-century architecture, harmoniously inserted into a rugged Alpine landscape, has also retained its integrity.

Authenticity

The authenticity of the route itself and of the remarkable civil engineering works that made this project possible is unquestionable. Although the appearance of the line has changed, especially since its electrification in the 1950s, the overall impact of the line on the landscape remains authentic. Given that the railway line has been in use continuously since its opening in 1854, specific items have worn out and been replaced, and methods for organising and operating railway lines have adapted to changing circumstances. However, since railways are by nature evolving socio-technical systems, continuity through change is an essential part of their identity, and these principles have been applied to preserve the property's authenticity.

Protection and management requirements

Management takes place at national, regional and local levels, and the property has revised and approved a detailed zoning plan that includes its buffer zone. It is protected at the Federal level since 1923 (Austrian Monument Protection Act, Federal Law Gazette No. 533/1923 and subsequent amendments). The property is also regulated by the "Convention Concerning the Protection of the World Cultural and Natural Heritage including the Austrian Declaration" (Federal Law Gazette No. 60/1993). The surrounding landscape is protected at provincial level and forms part of the Biosphere Reserve designation. A number of other specific laws regarding specific matters (such as water management and forest protection) also are in force. In addition, the property itself is managed by the Austrian Federal Railway Company, advised by an expert on railway preservation. Supervision and advice are provided by experts of the Federal Office for Protection of Historical Monuments. Funds are available from the Federal State of Austria as well as from the Provinces of Lower Austria and Styria.

A management plan has been in place since 2008. It has advisory status and plays a strategic role in guiding the decision-making processes, and it must be seen as a work in progress which requires systematic evaluation and review. Control and monitoring functions are also exerted through democratic participation of the public.

Comment

Some factual errors are going to be addressed.

3.2 - Please list the key attributes of Outstanding Universal Value of your property and give an assessment of their condition. As a guideline, it is suggested to focus on approximately five key attributes (no more than 15 overall).

	Brief identification of attribute	Preserved	Compromised	Seriously compromised	Lost
3.2.1	Railway line continuously in use since its opening in 1854	✗			
3.2.2	Railway line set against a spectacular mountain landscape	✗			
3.2.3	Tunnel portals	✗			

3.2.4	Viaducts and bridges	✕			
3.2.5	Attendants' houses	✕			
3.2.6	Station buildings	✕			
3.2.7	Villas featuring architecture from around 1900	✕			
3.2.8	Hotels from around 1900		✕		
3.2.9					
3.2.10					
3.2.11					
3.2.12					
3.2.13					
3.2.14					
3.2.15					

3.3 - Comments, conclusions and/or recommendations related to Statement of Outstanding Universal Value

Attendants' houses and hotels on the fringe of being compromised due to the lack of current proper use. A concept for the revitalization of the historic building stock is being developed. All buildings affected are located in the buffer zone.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Outside











Relevant	✕ Not relevant
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4.1.2 - Commercial development

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Outside

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕		✕	Negative ✕	✕			

4.1.3 - Industrial areas

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Outside










Relevant	✕ Not relevant
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4.1.4 - Major visitor accommodation and associated infrastructure

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Negative, Current, Potential, Outside

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕		✕	✕	✕			
 Negative							

4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Current, Potential, Inside

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕	✕			
 Negative							

4.1.6 - Please comment as necessary on how the factors selected as relevant in 4.1 are affecting the property either negatively or positively

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Current, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕	✕			
 Negative							

4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Current, Potential, Inside

Relevant	✕ Not relevant
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4.2.5 - Effects arising from use of transportation infrastructure

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕		✕		✕			
 Negative ✕		✕		✕			

4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

Re-opening of larger hotels will lead to increased vehicle traffic in the region. Concepts for regional climate-friendly mobility solutions have been started and are being developed.

4.3. Services Infrastructures

4.3.1 - Water infrastructure

Previous answer Cycle 2 (31/07/2013):



- Relevant, Positive, Current, Outside

Relevant	✕ Not relevant
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4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (31/07/2013):

- Not relevant

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕		✕	✕				
 Negative ✕	✕	✕	✕				

4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.3.4 - Localised utilities

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.3.5 - Major linear utilities

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Current, Outside

Relevant	✕ Not relevant
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4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or positively

4.4. Pollution

4.4.1 - Pollution of marine waters

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.4.2 - Ground water pollution

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.4.3 - Surface water pollution

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.4.4 - Air pollution

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.4.5 - Solid waste

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.4.6 - Input of excess energy

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.4.7 - Please comment as necessary on how the factors selected as relevant in 4.4 are affecting the property either negatively or positively

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.2 - Aquaculture

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.3 - Land conversion

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.5 - Crop production

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.8 - Commercial hunting

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.9 - Subsistence hunting

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.10 - Forestry/Wood production

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	✕ Not relevant
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4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively

4.6. Physical resource extraction

4.6.1 - Mining

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.6.2 - Quarrying

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.6.3 - Oil and gas

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.6.4 - Water (extraction)

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.6.5 - Please comment as necessary on how the factors selected as relevant in 4.6 are affecting the property either negatively or positively

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.7.2 - Relative humidity

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.7.3 - Temperature

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.7.4 - Radiation/Light

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.7.5 - Dust

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (31/07/2013):

- Not relevant

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact	Origin	Trend of impact
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Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.7.7 - Pests

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.7.8 - Micro-organisms

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.8.2 - Society's valuing of heritage

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Current, Inside, Outside

 Relevant	Not relevant						
Impact	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative							

4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.8.4 - Changes in traditional ways of life and knowledge system

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.8.5 - Identity, social cohesion, changes in local population and community

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Outside




















 Relevant	Not relevant						
Impact	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Current, Potential, Outside

 Relevant	Not relevant						
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative 							

4.8.7 - Please comment as necessary on how the factors selected as relevant in 4.8 are affecting the property either negatively or positively

4.9. Other human activities

4.9.1 - Illegal activities

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.9.3 - Military training

Previous answer Cycle 2 (31/07/2013):


- Not relevant

Relevant	 Not relevant
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4.9.4 - War

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
----------	--

4.9.5 - Terrorism

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.9.6 - Civil unrest

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
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4.9.7 - Please comment as necessary on how the factors selected as relevant in 4.9 are affecting the property either negatively or positively














4.10. Climate change and severe weather events

4.10.1 - Storms

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Inside

 Relevant	Not relevant
--	--------------














	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.10.2 - Flooding

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Negative, Current, Potential, Inside, Outside

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.10.3 - Drought

Previous answer Cycle 2 (31/07/2013):


- Not relevant

Relevant	 Not relevant
----------	--

4.10.4 - Desertification

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
----------	--

4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
----------	--

4.10.6 - Temperature change

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
----------	--

4.10.7 - Other climate change impacts

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
----------	--

4.10.8 - Please comment as necessary on how the factors selected as relevant in 4.10 are affecting the property either negatively or positively

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	 Not relevant
----------	--

4.11.2 - Earthquake

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Inside

Relevant	 Not relevant
----------	--

4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (31/07/2013):

- Not relevant
















Relevant	 Not relevant
----------	--

4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Current, Potential, Inside, Outside

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.11.6 - Fire (wildfire)

Previous answer Cycle 2 (31/07/2013):

- Relevant, Negative, Potential, Inside

<input checked="" type="checkbox"/> Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.11.7 - Please comment as necessary on how the factors selected as relevant in 4.11 are affecting the property either negatively or positively

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.3 - Invasive/Alien freshwater species

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.6 - Modified genetic material

Previous answer Cycle 2 (31/07/2013):

- Not relevant







Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.7 - Please comment as necessary on how the factors selected as relevant in 4.12 are affecting the property either negatively or positively

4.13. Management and institutional factors

4.13.1 - Management system/Management plan

<input checked="" type="checkbox"/> Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing

Positive 							
Negative 							

4.13.2 - Legal framework

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
Positive 							
Negative 							




4.13.3 - Governance

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
Positive 							
Negative 							






4.13.4 - Management activities

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Current, Inside, Outside

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
Positive 							
Negative 							

4.13.5 - Financial resources

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
Positive 							
Negative 							

4.13.6 - Human resources

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
Positive 							
Negative 							

4.13.7 - Low impact research/monitoring activities

Previous answer Cycle 2 (31/07/2013):

- Relevant, Positive, Current, Inside

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
Positive 							
Negative 							

4.13.8 - High impact research/monitoring activities

Previous answer Cycle 2 (31/07/2013):

- Not relevant

Relevant

✕ Not relevant

4.13.9 - Please comment as necessary on how the factors selected as relevant in 4.13 are affecting the property either negatively or positively



































































4.14. Other factor(s)

4.14.1 - Other factor(s)

4.15. Factors Summary Table

4.15.1 - Factors Summary Table




Name	Impact			Origin		Trend
4.1 Buildings and Development						
4.1.2 Commercial development						
	⊖		👉		🔄	➡
4.1.4 Major visitor accommodation and associated infrastructure	⊕		👉	🕒	🔄	➡
4.1.5 Interpretative and visitation facilities	⊕	🚩	👉	🕒	🔄	➡
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure	⊕	🚩	👉	🕒	🔄	➡
4.2.5 Effects arising from use of transportation infrastructure	⊕		👉		🔄	➡
	⊖		👉		🔄	➡
4.3 Services Infrastructures						
4.3.2 Renewable energy facilities	⊕		👉	🕒		➡
	⊖	🚩	👉	🕒		➡
4.7 Local conditions affecting physical fabric						
4.7.6 Water (rain/water table)						
	⊖		👉	🕒	🔄	➡
4.8 Social/Cultural uses of heritage						
4.8.2 Society's valuing of heritage	⊕	🚩	👉	🕒	🔄	➡
4.8.5 Identity, social cohesion, changes in local population and community						
	⊖	🚩	👉	🕒		➡
4.8.6 Impacts of tourism/Visitation/Recreation	⊕	🚩	👉	🕒	🔄	➡
	⊖		👉		🔄	➡
4.10 Climate change and severe weather events						
4.10.1 Storms						
	⊖		👉	🕒		➡
4.10.2 Flooding						
	⊖		👉		🔄	➡
4.11 Sudden ecological or geological events						
4.11.4 Avalanche/Landslide						

						
4.11.6 Fire (wildfire)						
						
4.13 Management and institutional factors						
4.13.1 Management system/Management plan						
4.13.2 Legal framework						
						
4.13.3 Governance						
						
4.13.4 Management activities						
						
4.13.5 Financial resources						
						
4.13.6 Human resources						
						
4.13.7 Low impact research/monitoring activities						
Legend	 Current	 Potential	 Negative	 Positive	 Inside	 Outside

4.16. Assessment of current and potential positive and negative factors




4.16.1 - Assessment of current and potential negative and positive factors

4.1 Buildings and Development

Name	Impact	Origin	Trend
4.1.2 Commercial development			
			

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input checked="" type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	

	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.1.4 Major visitor accommodation and associated infrastructure	 	 	






Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources


Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.1.5 Interpretative and visitation facilities	  	 	

Spatial scale - Area affected by the factor	
	Restricted







	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.2 Transportation Infrastructure

Name	Impact	Origin	Trend
4.2.1 Ground transport infrastructure	  	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.2.5 Effects arising from use of transportation infrastructure						
						





Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.3 Services Infrastructures

Name	Impact			Origin		Trend
4.3.2 Renewable energy facilities						







Spatial scale - Area affected by the factor							
	Restricted						
✕	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
✕	One off or rare						
	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							
	Insignificant						
✕	Minor						
	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
	Medium capacity						
✕	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
✕	Static						
	Increasing						

4.7 Local conditions affecting physical fabric






Name	Impact			Origin		Trend
4.7.6 Water (rain/water table)						
Spatial scale - Area affected by the factor						
✕	Restricted					
	Localised					
	Extensive					
	Widespread					
Temporal scale - Occurrence of the impact						
✕	One off or rare					
	Intermittent or sporadic					
	Frequent					
	On-going					
Impact - Impact on the attributes						

	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing






4.8 Social/Cultural uses of heritage

Name	Impact	Origin	Trend
4.8.2 Society's valuing of heritage	  	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.8.5 Identity, social cohesion, changes in local population and community			
			
			



Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.8.6 Impacts of tourism/Visitation/Recreation			
			

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.10 Climate change and severe weather events

Name	Impact			Origin		Trend
4.10.1 Storms						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static

	Increasing					
--	------------	--	--	--	--	--

Name		Impact			Origin		Trend
4.10.2 Flooding							

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going

Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	Major

Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources

Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing





4.11 Sudden ecological or geological events

Name		Impact			Origin		Trend
4.11.4 Avalanche/Landslide							

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic



	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.11.6 Fire (wildfire)						
						






Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing

✕	Static
	Increasing

4.13 Management and institutional factors

Name	Impact	Origin	Trend
4.13.1 Management system/Management plan	 	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.2 Legal framework	 	 	









Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare

	Intermittent or sporadic
	Frequent
X	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
X	Major
Management response - Capacity of management to respond	
	High capacity
X	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
X	Static
	Increasing

Name	Impact			Origin	Trend
4.13.3 Governance					

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
X	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
X	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
X	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
X	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	

	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.4 Management activities	  		
	 		

Spatial scale - Area affected by the factor

	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact

	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes








	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond

	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years

	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.5 Financial resources	  		
	 		








Spatial scale - Area affected by the factor

	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact





	One off or rare
--	-----------------

	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.6 Human resources	 		
	 		

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	

	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	 		

Spatial scale - Area affected by the factor

	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact

	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes

	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond

	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years

	Decreasing
✕	Static
	Increasing

4.17. Serial inscriptions (national or transnational)

4.17.1 - If your property is a serial inscription (national or transnational) please identify which components of the property are impacted by each factor

4.18. Prediction of the state of conservation at next cycle of Periodic Reporting.

4.18.1 - Please predict what the state of conservation of each attribute will be approximately 6 years from now (at the time of the next cycle of Periodic Reporting)

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	Railway line continuously in use since its opening in 1854	✕			
4.18.1.2	Railway line set against a spectacular mountain landscape	✕			
4.18.1.3	Tunnel portal	✕			
4.18.1.4	Viaducts and bridges	✕			
4.18.1.5	Hotels from around 1900	✕			

5. Protection and Management of the Property

5.1. Boundaries and Buffer Zones

5.1.1 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The boundaries are **adequate to maintain** the property's Outstanding Universal Value

5.1.2 - Are the boundaries of the World Heritage property known and recognised?

The boundaries **are known by both** the management authority and local communities/landowners

5.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The buffer zones are **adequate** to maintain the property's Outstanding Universal Value

5.1.4 - Are the boundaries of the buffer zones known and recognised?

The buffer zones of the World Heritage property **are known and recognised by both** the management authority and local communities/landowners

5.1.5 - Comments, conclusions and/or recommendations related to boundaries and buffer zones of the World Heritage property

The current boundaries of the property were agreed on around 2009 and adopted by the Committee. Now that the WHC interprets the term "attributes" in a way that they must be represented in the property, this system is not fully compatible with the current boundaries.

5.2. Protective Measures

5.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and/or traditional).

The Austrian Federal Railways (Österreichische Bundesbahn - ÖBB) own the railway line and the buildings associated with it. Therefore, only very small areas of land within the World Heritage core zone is privately owned property (especially linesman houses).

The buffer zone comprises extensive areas with various types of usage, in particular residential areas, agricultural areas and forests. The ownership structure in this area is differentiated accordingly. With the exception of forest areas, land is mostly privately owned.

In the World Heritage area, a number of international and national regulations, as well as laws of the Provinces and areas of competence of local communities are in force and contribute to securing the continued existence of the World Heritage.

- **The Alpine Convention:** The local Styrian and Lower Austrian World Heritage communities participate in the Alpine Convention. This is an international convention for the protection of the natural environment and the promotion of sustainable development in the Alps. In addition, the economic and cultural interests of the domestic population in the signatory states are to be safeguarded. If any plans or programs for regional planning are modified, the aims of the Alpine Convention must still be taken into consideration. In Austria, the Alpine Convention is legally set forth in the Federal Law Gazette N° 477/1995 from 21/07/1995.
- **Protection of monuments:** In Austria, the protection of monuments is the responsibility of the Federal authorities. The National Monuments Act from 01/01/2000 (in its version FLG I N° 2/2008) refers to objects created by man and with historic, artistic or other cultural significance, if preserving them is a matter of public interest (compare § 1 DMSG). Taking scientific findings into consideration, the Federal Monuments Office decides, whether there is a public interest in the maintenance of an individual monument, an ensemble of buildings or a collection.
- **Protection of the environment and landscape:** In Austria, the protection of the environment and landscape is subject to the laws made by the Provinces. On the part of the Province of Lower Austria, the Lower Austrian Nature Conservation Act in its version as of 07/09/2007 applies, in particular section III, § 8 on conservation. Natura 2000 is the pan-European network of protected areas, created to protect and conserve special types of animals and plants as well as sensitive habitats for future generations.
- **Spatial planning:** In Austria, spatial planning is within the responsibility of the Provinces. The legal bases are the 1976 Spatial Planning Act for Lower Austria in its version from 07/09/2007 (NÖ ROG) and the 1974 Styrian Spatial Planning Act in its version from 2007 (STMK ROG).

Source: Management Plan (2011), Periodic Reporting Cycle 2

Comment

The Lower Austrian Spatial Planning Act was newly adopted in 2014, the Styrian Spatial Planning Act in 2010.

5.2.2 - Please list any legislation and other measures (regulatory -including spatial planning- contractual, institutional or traditional) not included in 5.2.1 and indicate the category

2014 / Building Code / Federal State of Lower Austria Law /

2000 / UVP-G (Environmental Impact Assessment Act) / National Law /
<https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&Gesetzesnummer=10010767>

5.2.3 - Is the legal framework (i.e. legislation and/or regulation including spatial planning) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An **adequate legal framework** for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists **but there are some deficiencies in implementation**

5.2.4 - Is the legal framework (i.e. legislation and/or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An **adequate legal framework** in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists **but there are some deficiencies in implementation**

5.2.5 - Is the legal framework (i.e. legislation and/or regulation) in the broader setting of the World Heritage property adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An **adequate legal framework** exists for the broader setting of the World Heritage property, **but there are some deficiencies in implementation** which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property

5.2.6 - Can the legal framework (i.e. legislation and/or regulation) be enforced?

There is **adequate capacity/resources** to enforce legislation and/or regulation in the World Heritage property

5.2.7 - Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice

The railway line is part of the operative Austrian railway network and protected under the Austrian Monument Protection Act. Renovations are taken care of by the Austrian Federal Railways and the Austrian Federal Monuments Office. Issues concerning the World Heritage in the surrounding cultural landscape are mainly represented in the spatial development plans of the municipalities and by nature protection designation of the Federal States of Lower Austria and Styria.

5.2.8 - Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World Heritage property

5.3. Management System/Management Plan

5.3.1 - Please check the box which most closely match the character of the governance and management system of the property

Other

If 'Other', please specify

Public railway infrastructure manager + private association

5.3.2 - Management System: Please indicate which of the various management tools listed below are used to help protect the property.

Mechanisms to promote equal participation among and within groups, including different levels of authority, local communities, indigenous people, women and men, and other specific groups

A code of practice developed by local communities or other groups

A management plan

A disaster, climate or conflict risk management plan

5.3.3 - Please give a brief description of the management system currently in place at your property

The property itself (the Semmering Railway) is taken care of by the Austrian Federal Railways (ÖBB) and their specialized departments. For the rural landscape around the railway line, a management plan is in place since 2010. A professional site management has not yet been appointed. Day-to-day care and some interpretation work are taken care of the association "Friends of the Semmering Railway", whose head is formally appointed site manager.

5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
World Heritage Semmering Railway Management Plan, 61 pp	N/A	Available	2011	

5.3.5 - Has any use been made of the 2011 Recommendation on the Historic Urban Landscape in developing policies and best practices for the protection of this property?

No use has been made of the 2011 Recommendation on the Historic Urban Landscape

5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.

5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?

No use has been made of the World Heritage Policy for Climate Change

5.3.8 - If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts of Climate Change on the property:

5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property ?

No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties

5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done

5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property

There is **coordination** between the range of administrative bodies involved in the management of the property, **but it could be improved**

5.3.12 - Is the management system/plan adequate to maintain the property's Outstanding Universal Value?

The management system/plan is **only partially adequate** to maintain the property's Outstanding Universal Value

5.3.13 - Is the management system being implemented?

The management system is being **only partially implemented**

5.3.14 - Is there an annual work/action plan and is it being implemented?

An annual work/action plan **exists and many of its activities** are being implemented

5.3.15 - Does the management system include formal mechanisms and procedures that ensure participation and contribution of the following groups, living within or near the World Heritage property and/or buffer zone in management decisions that maintain the Outstanding Universal Value of the property?

		Not applicable	No mechanisms for participation	Some participation	Direct participation	Transformative participation in all relevant decision processes
5.3.15.1	Local communities			✕		
5.3.15.2	Local authorities				✕	
5.3.15.3	Landowners in the property and the buffer zone			✕		
5.3.15.4	Indigenous peoples	✕				
5.3.15.5	Women	✕				
5.3.15.6	Other specific groups	✕				
	If you selected, 'Other specific groups' please specify					

5.3.16 - Please rate the cooperation/relationship between the World Heritage property managers/coordinators/staff and the following groups

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities					✕
5.3.16.2	Local/Municipal authorities					✕
5.3.16.3	Indigenous peoples	✕				
5.3.16.4	Landowners					✕
5.3.16.5	Women	✕				
5.3.16.6	Youth/Children				✕	
5.3.16.7	Researchers			✕		
5.3.16.8	Local Visitors/Tourists					✕
5.3.16.9	National/International tourists					✕
5.3.16.10	Tourism Industry					✕
5.3.16.11	Local businesses and industries					✕
5.3.16.12	NGOs					✕
5.3.16.13	Other specific groups	✕				
	If you selected 'Other specific groups', please specify					

5.3.17 - Please rate the extent to which the management system of your property contributes towards achieving the objectives of the World Heritage Committee's Policy for the Integration of a Sustainable Development Perspective into the Processes of the *World Heritage Convention*

		Not applicable	No contribution	Limited	Significant	Full achievement
5.3.17.1	The management system of the property contributes to gender equality	✕				
5.3.17.2	The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)	✕				
5.3.17.3	The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status	✕				
5.3.17.4	The management system of the property integrates a human rights-based approach	✕				
5.3.17.5	The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood			✕		
5.3.17.6	The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property	✕				

5.3.18 - Please provide further details on the ratings of the management system given in the table above

5.3.19 - Comments, conclusions and/or recommendations related to the management system/plan

6. Financial and Human Resources

6.1. Funding

6.1.1 - If your funding sources do not exactly fit those shown, put the relevant amounts against the funding type that most closely represents your situation, and use the comment box below to provide more details.

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	100 %	100 %
6.1.1.7	Governmental (regional/provincial/state)	0 %	0 %
6.1.1.8	Governmental (local/municipal)	0 %	0 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	0 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %
6.1.1.12	Other	0 %	0 %
		Total 100 %	Total 100 %

6.1.2 - Please comment here on any other aspects of funding sources not covered in the table above

6.1.3 - Is the current budget sufficient to manage the World Heritage property effectively?

The available budget is acceptable but could be further improved to fully meet the management needs

6.1.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding are secure over both the medium- and long-term

6.1.5 - Comments, conclusion, and/or recommendations related to finance and infrastructure

6.1.6 - Estimate the distribution of men and women involved in the management, conservation, interpretation of the World Heritage properties and the extent to which they are drawn from local communities.

		From local communities %	From elsewhere %
6.1.6.1	Men	50 %	65 %
6.1.6.2	Women	50 %	35 %
		Total 100 %	Total 100 %

6.1.7 - Are available human resources adequate to manage the World Heritage property?

Human resources partly meet the management needs of the World Heritage property

6.1.8 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

Conservation	Good
Environmental sustainability	Good
Community participation and inclusion	Fair
Risk preparedness	Good
Capacity development and education	Fair
Administration	Fair
Research and monitoring	Fair
Awareness raising and public information/communication	Fair
Marketing and promotion	Poor

Interpretation	Fair
Visitor management/tourism	Fair
Enforcement (custodians, police)	Not applicable

6.1.9 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

Conservation	Good
Environmental sustainability	Good
Community participation and inclusion	Good
Risk preparedness	Good
Capacity development and education	Fair
Administration	Good
Research and monitoring	Not applicable
Awareness raising and public information/communication	Good
Marketing and promotion	Good
Interpretation	Fair
Visitor management/tourism	Good
Enforcement (custodians, police)	Not applicable

6.1.10 - Has any use been made of the World Heritage Strategy for Capacity Building at the property?

No use has been made of the World Heritage Strategy for Capacity Building

6.1.11 - If the World Heritage Strategy for Capacity Building has been used, please briefly describe what has been done.

6.1.12 - Are there site-specific capacity building plans or programmes that develop local expertise and that contribute to the transfer of skills for the conservation and management of the World Heritage property?

A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, **but most technical work is carried out by external staff**

6.1.13 - Comments, conclusions and/or recommendations related to human resources, expertise and training

7. Scientific Studies and Research Projects

7.1 - Is there adequate knowledge (scientific or traditional) about the values and attributes of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained?

Knowledge about the values and attributes of the World Heritage property is **adequate**

7.2 - Is there a planned programme of research at the property which is directed towards management needs and/or improving understanding of Outstanding Universal Value?

There is a **small amount of research, but it is not planned**

7.3 - Are results from research programmes publicly available and disseminated?

Research results **are shared** widely **with active outreach** to local communities and national and international audiences

7.4 - Comments, conclusions and/or recommendations related to scientific studies and research projects

8. Education, Information and Awareness Building

8.1 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

Local communities	Fair
Local/municipal authorities	Fair
Indigenous peoples	Not applicable
Landowners	Fair
Women	Fair
Youth/children	Good
Researchers	Good

Local visitors	Good
National/international tourists	Fair
Tourism industry	Fair
Local businesses and industries	Fair
NGOs	Fair
Other specific groups	Not applicable
If you selected 'Other specific groups', please describe	

8.2 - Does the property have a heritage education programme(s) for children and/or youth, that can contribute to a better understanding of heritage, promote diversity and foster intercultural dialogue?

There is a **limited and ad hoc** education and awareness programme for children and/or youth

8.3 - Who are the target audiences for education and awareness programmes at your property?

Local communities
Women
Youth/children
Local Visitors
National/international tourists
Tourism industry
Local businesses and industries

8.4 - Please rate the adequacy of the following visitor facilities and services at the World Heritage property for education, information, interpretation and awareness building

Visitor centre	Good
Site museum	Good
Information booths	Good
Guided tours	Good
Trails/routes	Good
Printed information materials	Fair
Online (website, social media, etc.)	Poor
Transportation facilities	Good
Other	Not needed
If 'Other' is selected, please specify	

8.5 - Comments, conclusions and/or recommendations related to education, information and awareness building

9. Visitor Management

9.1 - Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

200000 / 70000 / 125000 / 190000 / 200000 /

9.2 - What information sources are used to collect visitor statistics?

Entry tickets and registries
Accommodation establishments
Transportation services
Tourism industry

9.3 - What is the average length stay of a visitor to the World Heritage property?

One day (no overnight stay)

9.4 - Please provide the source of information

9.5 - What is the approximate average daily visitor expenditure? (Please provide an estimated monetary figure in USD)

8 / 20 / 10 / 5 / 25 / 3 /

9.6 - Please provide the source of information

T-Mona 2019, own estimates

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors, tourism activity and its derived economic, socio-cultural and environmental impacts?
There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation

9.8 - Please provide any comments relating to the answer provided above in question 9.7

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?
Visitor use of the World Heritage property is effectively managed and does not impact its Outstanding Universal Value

9.10 - Is the effectiveness of tourism management regularly monitored?
Yes, using a different system

If a different system, please specify
T-Mona

9.11 - How does the tourism industry cooperate with the site management to improve visitor experiences and maintain the Outstanding Universal Value of the World Heritage property?
There is good cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation

9.12 - How well is the information on the Outstanding Universal Value of the property presented and interpreted?
The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made

9.13 - At how many locations is the World Heritage emblem displayed at the property?
In many locations and easily visible to visitors

9.14 - How does visitor/tourism revenue (e.g. entry charges, permits) contribute to the management of the World Heritage property?
Fees are collected, and make some contribution to the management of the World Heritage property

9.15 - Are there locally driven sustainable tourism initiatives?
Yes

If 'Yes', please specify
museums, hotels, inns are mostly driven by private people

9.16 - Are the benefits of tourism shared with local communities?
Yes

If 'Yes', please specify
museums, hotels, inns are mostly driven by private people

9.17 - Comments, conclusions and/or recommendations related to visitation/tourism/public use of the World Heritage property

10. Monitoring

10.1 - Is there a monitoring programme at the property directed towards management needs and/or towards improving the understanding of the Outstanding Universal Value?
There is a comprehensive, integrated programme of monitoring, which is relevant to management needs and/or improving understanding of the Outstanding Universal Value

10.2 - Is necessary information available in order to define key indicators for measuring the state of conservation and are they used in monitoring how the Outstanding Universal Value of the property is being maintained?
Information on the values of the World Heritage property is adequate and key indicators have been defined for measuring the state of conservation and are being used in monitoring of how the Outstanding Universal value of the property is being maintained

10.3 - Are key indicators defined and in place for the following principal aspects of the property?

	Extend of indicators	Not applicable	No indicators	Indicators have been defined but are not yet in use	Indicators are in place and in use since the last Periodic Reporting cycle
10.3.1	State of conservation				×
10.3.2	Effectiveness of the management system		×		
10.3.3	Character of governance		×		
10.3.4	Appropriate synergy with other conservation designations	×			
10.3.5	Contribution to sustainable development				×

10.3.6	Capacity development		✕		
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10.4 - Please provide information on relevant key indicators adopted at the property

10.5 - Please rate the level of involvement in monitoring of the following groups:

World Heritage managers/coordinators and staff	Fair
Local/municipal authorities	Poor
Local communities	Not applicable
Indigenous peoples	Not applicable
Landowners	Fair
Women	Not applicable
Researchers	Fair
Tourism industry	Good
Local businesses and industry	Fair
NGOs	Non-existent
Other specific groups	Not applicable
If you selected 'Other specific groups', please specify	

10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

No relevant Committee recommendations to implement

10.7 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.

10.8 - Comments, conclusions and/or recommendations related to Monitoring

11. Identification of Priority Management Needs

11.1 - Identification of Priority Management Needs

5.2	Protective Measures	
5.2.3	An adequate legal framework for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	
5.2.4	An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	✕
5.2.5	An adequate legal framework exists for the broader setting of the World Heritage property and the buffer zone, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property	✕
5.3	Management System/Management Plan	
5.3.5	No use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	✕
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	✕
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	
5.3.12	The management system/plan is only partially adequate to maintain the property's Outstanding Universal Value	
5.3.13	The management system at the property is only being partially implemented	
5.3.17	<ul style="list-style-type: none"> In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood 	
6.1	Funding	
6.1.3	The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property	✕
6.1.7	Human resources partly meet the management needs of the World Heritage property	✕
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	✕
6.1.12	A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff	
7	Scientific Studies and Research Projects	

7.2	There is a small amount of research in the World Heritage property but it is not planned	
8	Education, Information and Awareness Building	
8.2	There is a limited and ad hoc education and awareness programme for children and/or youth	X
9	Visitor Management	
9.7	There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation	
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	
Please select 2 more issues.		
<input checked="" type="checkbox"/> Please save this question to reflect changes		

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

4.2	Transportation Infrastructure							
4.2.5	Effects arising from use of transportation infrastructure	attributes 7, 8	creating mobility concepts fostering public mobility and centralized parking	monitoring traffic numbers	mid-term	municipalities, ÖBB	none	
4.8	Social/Cultural uses of heritage							
4.8.5	Identity, social cohesion, changes in local population and community	Attribute 7, 8	Implement regional strategic development plan 2030.	Follow monitoring plan of the strategy.	by 2030	ecoplus; Federal State of Lower Austria	none	
4.8.6	Impacts of tourism/Visitation/Recreation	Attributes 1, 8	The Semmering region is one of the priority investment areas of Lower Austrian tourism and culture, including hotels. Traffic concepts for specific investment projects have been developed. Tourism concepts targeting specific target groups.	Visitor numbers, entrance tickets from culture enterprises, traffic counts	on-going	Federal State of Lower Austria	none	
4.10	Climate change and severe weather events							
4.10.1	Storms	attributes 1, 3, 4, 5, 6	creating and maintaining torrent and landslide protection facilities in connection with the railway line	counting number of events	on-going	ÖBB	none	
4.11	Sudden ecological or geological events							
4.11.4	Avalanche/Landslide	all attributes	creating and maintaining torrent, landslide and avalanche protection facilities	counting number of disasters	on-going	municipalities, ÖBB, torrent and avalanche protection authority	none	
4.13	Management and institutional factors							
4.13.2	Legal framework	all attributes	Creating an Austrian WH Framework Act and implementing WH issues into the Austrian Monument Protection Act and into relevant state and federal state laws.	maintaining awareness for the issue	short to mid-term	State Party, Austrian WH Conference; ICOMOS Austria	none	

4.13.3	Governance	all attributes	agreeing on a coherent management system for the property and the buffer zone, including all relevant stakeholders	-	short to mid-term	State Party, Federal States of Lower Austria and Styria, municipalities, Austrian Federal Railways	none
4.13.4	Management activities	all attributes	the management plan and system is slightly outdated and has to be revised, subsequently a new management system shall be implemented, first steps were already taken	regular contact	short-term	State Party, federal and regional authorities	none
4.13.5	Financial resources	all attributes	agree on a budget by all stakeholders being part of the governance network	accounting of the management institution	short to mid-term	WH Management	none
4.13.6	Human resources	all attributes	creating a new comprehensive and professional site management integrating key stakeholders like the Austrian Federal Railways	-	short to mid-term	State Party, Federal States of Lower Austria and Styria, Austrian Federal Railways	none

Summary - Factors affecting the Property **completed**

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

5.2	Protective Measures				
		Actions	Timeframe	Lead agency (and others involved)	More info / comment
5.2.4	An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	WH issues may be better implemented into legislation on all levels (state, federal states, municipal planning documents).	on-going	authorities on all levels	none
5.2.5	An adequate legal framework exists for the broader setting of the World Heritage property and the buffer zone, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property	WH issues may be better implemented into legislation on all levels (state, federal states, municipal planning documents).	permanently	authorities on all levels	none
5.3	Management System/Management Plan				

5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	consider the document	long-term	WH Management	none
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	consider the document	long-term	WH management	none

6.1	Funding				
6.1.3	The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property	negotiating for more adequate funding with state authorities and other stakeholders	permanently	WH Management	none
6.1.7	Human resources partly meet the management needs of the World Heritage property	Implement a professional site management	short-term	State Party, Federal States of Lower Austria and Styria	none
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	consider the document	long-term	WH management	none

8	Education, Information and Awareness Building				
8.2	There is a limited and ad hoc education and awareness programme for children and/or youth	address schools in the WH area in an institutionalized way with specific program ideas	mid-term	WH Management	none

Summary - Management Needs completed

12.3. Conclusions on the State of Conservation of the Property

12.3.1 - Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property?

The Authenticity of the World Heritage property has been preserved

12.3.2 - Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property?

The Integrity of the World Heritage property is intact

12.3.3 - Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

The World Heritage property's Outstanding Universal Value has been maintained.

12.3.4 - What is the current state of the property's other values?

Other important cultural and/or natural values and the state of conservation of the World Heritage property are intact

12.3.5 - Comments, conclusions and/or recommendations related to the state of conservation of the property.

13. Impact of World Heritage Status

13.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas

Conservation	Very positive
Research and monitoring	Very positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Very positive
Education	Positive
Infrastructure development	Positive
Funding for the property	Positive
International cooperation	Positive
Political support for conservation	Very positive
Legal/Policy framework	No impact
Advocacy	No impact
Institutional coordination	Positive
Security	Not applicable
Gender equality	Not applicable
Provision of ecosystem services/ benefits to local communities	Not applicable
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	Not applicable
Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Not applicable
Other	Not applicable
If 'Other', please specify	

13.2 - Comments, conclusions and/or recommendations related to World Heritage status and its impacts

14. Good Practice in the Implementation of the World Heritage Convention

14.1 - Example of good practice in World Heritage protection, identification, conservation or management at the property level

As it became clear that the historic mountain railway line is going to be underpassed by a tunnel, shortening the travel time between Vienna and Graz by half an hour, the future of the World Heritage site became publicly discussed. A high-level advisory mission in 2010 provided valuable recommendations on how to maintain the World Heritage status despite the unavoidable loss of importance of the mountain railway to the European railway network and the impact of the construction works. A Design Advisory Board supporting planning of the new tunnel was installed. The existing mountain railway line got fully inventorized, and restoration guidelines for all built elements of the railway line were developed together with experts from the Federal Monuments Office. A number of books about the history and technical aspects of the mountain railway line were published: • Toni Häfliger, Günter Dinobobl (Hrsg.): Weltkulturerbe in Österreich. Die Semmeringbahn, Erhalten und Gestalten. Mit einem Fotoessay von Hertha Hurnaus, Birkhäuser: Basel 2021, ISBN 978-3-0356-2454-0. • Bundesdenkmalamt: Welterbe Semmeringbahn: Zur Viaduktanierung 2014-2019 (FOKUS DENKMAL Band 12), Wien 2021, ISBN 978-3-85028-948-1

14.2 - Define which topics are covered by this example of best practice at the property level

Sustainable Development
State of Conservation
Management
Governance
Capacity Building

15. Assessment of the Periodic Reporting Exercise

15.1. Relevance of Periodic Reporting

15.1.1 - Has the Periodic Reporting process improved the understanding of the following?

The World Heritage Convention

The concept of Outstanding Universal Value
The property's Outstanding Universal Value
The concept of Integrity and/or Authenticity
The property's Integrity and/or Authenticity
Management effectiveness to maintain the Outstanding Universal Value
Monitoring and reporting

15.1.2 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

State Party	Good
Site Managers	Fair
UNESCO World Heritage Centre	Not needed
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Good

15.2. Use of Data

15.2.1 - How do the authorities in charge of the property plan to use the data recorded from this cycle of Periodic Reporting?

Revision of priorities/strategies/policies for the protection, management and conservation of heritage
Update of management plans
Fundraising
Awareness raising
Advocacy

15.2.2 - Comments on use of data from the Cycle of Periodic Reporting

15.3. Timing and resources

15.3.1 - Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

Governmental institutions responsible for cultural and natural heritage
Site Manager/Coordinator World Heritage property staff
Local communities
Other specific groups
Regional development staff
ICOMOS national/regional
External experts

15.3.2 - Has a gender balanced contribution and participation been considered in the filling out of this questionnaire?

Gender balance has **not been explicitly** considered or implemented in the process.

15.3.3 - Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire?

Yes

15.3.4 - Please estimate the time (working hours) needed to complete this questionnaire

20 / 10 / 50 /

15.3.5 - Did you mobilise any additional resources to fill out this questionnaire?

	Additional resources	No	Yes
15.3.5.1	Human resources		×
15.3.5.2	Financial resources for organizing consultation meetings/ training		×

15.4. Format and content of the Periodic Report

15.4.1 - How accessible was the information required to complete this questionnaire?

Not all required information was accessible.

15.4.2 - Was the questionnaire easy to use and clear to understand?

		Very Difficult	Difficult	Easy	Very easy
15.4.2.1	Ease of use of questionnaire			×	

15.4.3 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

15.5. Training and Guidance

15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire

UNESCO World Heritage Centre	Fair
UNESCO (other sectors/field offices)	Not applicable
UNESCO National Commission	Good
ICOMOS International	Not applicable
IUCN International	Not applicable
ICCROM international/regional	Not applicable
ICOMOS national/regional	Not applicable
IUCN national/regional	Not applicable

15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities

UNESCO World Heritage Centre	Fair
State Party Representative (national Focal Point)	Good
UNESCO other sectors (e.g. field office)	Not applicable
National Commission for UNESCO	Not applicable
ICOMOS International	Not applicable
ICCROM International/regional	Not applicable
ICOMOS national/regional	Good
IUCN national/regional	Not applicable
IUCN International	Not applicable

15.5.3 - Were the online training resources prepared by the World Heritage Centre regarding Periodic Reporting adequate for you to complete this questionnaire?

Yes

15.5.4 - If you found that the online training resources were not adequate, what changes would you like to see implemented?

15.6. Actions that will require formal consideration by the World Heritage Committee

15.6.1 - Summary of actions that will require formal consideration by the World Heritage Committee

- Geographic information table**

Reason for update: New maps requested by the WHC, the new map was sent to the WHC in March 2023. During mapping, the area of the buffer zone was recalculated to 8,590.91 ha, but the limits of the buffer zones remain unchanged.

- Map(s)**

Reason for update: The new maps following the format requests by the WHC were submitted in March 2023.

- Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee**

Reason for update: Some factual errors are going to be addressed.

Changes to these items will need to go through the proper processes.

15.7. Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.1 - Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.2 - Thank you for having filled in all the questions. Please contact your National Focal Point for validation.