

Petroglyphs within the Archaeological Landscape of Tamgaly

1. World Heritage Property Data

1.1 - Name of World Heritage property


Petroglyphs within the Archaeological Landscape of Tamgaly

1.2 - World Heritage property details

1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Petroglyphs within the Archaeological Landscape of Tamgaly	43.803 / 75.535	900	2900	3800	2004
Total (ha)		900	2900	3800	

1.4 - Map(s)

Title	Date	Link to source
The Archeological Landscape of Tamgay and the buffer zone	2003	

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

1. <http://tanbaly.kz> <https://web.facebook.com/tanbalmuseum> <https://vk.com/public79958115> <https://www.instagram.com/tanbalmuseum/> <http://tanbaly.kz/index.php/kz/3d-tur-tam-aly> <https://www.youtube.com/channel/UCYoznWmb3nCbWpiu7GyTlaQ>

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

Our world heritage site Tamgaly is unfortunately not listed or protected under the above conventions and programs.

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?

Not applicable

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?

Not applicable

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?

Not applicable

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)

We are work closely with the international organization ICOMOS.

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

international holiday of Nauryz, falconry, kazaksha kures, aitys, kui, Yurt, creativity of the great Abai, kures.

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.

CARAD-Central Asian Rock Art Database – a Database of rock art monuments in Central Asia.

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**

Petroglyphs within the Archaeological Landscape of Tamgaly

Brief synthesis

Towards the western end of the Tianshan Mountains in the southeast of Kazakhstan, the Chu-Ili mountain spur forms a canyon around the Tamgaly Gorge. An abundance of springs, rich vegetation and shelter distinguishes the area from the arid mountains that fringe the border of Kazakhstan with Kyrgyzstan to the south, and from the flat dry plains of central Kazakhstan to the north. The Gorge and its surrounding rocky landscape, where shiny black stones rise up rhythmically in steps, have attracted pastoral communities since the Bronze Age, and have come to be imbued with strong symbolic associations.

The Archaeological Landscape of Tamgaly features a remarkable concentration of some 5,000 petroglyphs, associated settlements and burial grounds, which together provide testimony to the husbandry, social organization and rituals of pastoral peoples from the Bronze Age right through to the early 20th century. The large size of the early petroglyphs, their unique images and the quality of their iconography sets them apart from the wealth of rock art in Central Asia.

The property covers a roughly circular area of 900 ha and includes the 982m peak of Mt. Tamgaly. The Tamgaly River flows through the centre and out onto the plain below, to the north. Surrounding the property is a large buffer zone of 2900 ha, which to the northwest and southeast of the property includes outliers of the petroglyphs, and further burial mounds and ancient settlements.

Petroglyphs on unsheltered rock faces, which have been formed using a picketing technique with stone or metal tools, are the most abundant monuments on the property. Images have been recorded in 48 different complexes, of which the most important are five complexes, displaying about 3,000 images. By far the most exceptional engravings come from the earliest period and are characterized by large figures deeply cut in a sharp way with a wide repertoire of images including unique forms such as solar deities, zoomorphic beings dressed in furs, syncretic subjects, disguised people, and a wide range of animals.

The delineation of the property into a sacred core and outer residential periphery, combined with sacred images of sun-heads, altars, and enclosed cult areas, provide a unique assembly, which has maintained persistent sacred associations from the Bronze Age to the present day.

Criterion (iii): The dense and coherent group of petroglyphs, with sacred images, altars and cult areas, together with their associated settlements and burial sites, provide a substantial testimony to the lives and beliefs of pastoral peoples of the central Asian steppes from the Bronze Age to the present day.

Integrity

The natural landscape creates a discrete and finite setting for the rock art. The whole of the concentrated central area and the immediate peripheral area have been included within the boundaries of the property.

The Petroglyphs within Archaeological Landscape of Tamgaly still keeps its pristine character and essential natural and cultural features intact. It also has well-preserved cultural layers, representing the evidence of all the stages of development of this important cult centre of a large region.

However, the road across the northern part of the property, constructed in the Soviet period, creates a visual intrusion that needs to be addressed. The concrete posts of the former electricity line and some modern sheepfolds have been removed after the inscription of the property on the World Heritage List. As development and settlement of neighbouring properties is proceeding rapidly, to protect the integrity of the landscape, strong planning and control regulations will need to be enforced to regulate the design, height and scale of new buildings and urban infrastructure.

The main elements of the cultural landscape are the petroglyphs of the different levels of visibility (from bluish black ones of the Bronze and Early Iron Age to the light grey carvings of the latest time), the low stone-earth mounds and stone tombs hardly visible on the surface, the ruins of stone dwellings and enclosures. Despite of the fact that some parts of the rock massifs have traces of ancient destruction (Groups II-III) and modern graffiti (Groups IV-V), as a whole the gallery of petroglyphs preserved its integrity and representativeness. The traces of the past archaeological excavations (dump piles, shallow digs of the burials) are inconsiderable, partly removed and not noticeable in the whole context of the other sites and the landscape.

The main threats to the physical integrity of the property come from weathering in combination with the geological formation of the rocks. Water ingress and stratification of the bedrock parallel to the surface make the rock face vulnerable to exfoliation. The high water table and its salinity also affect the bones and artefacts (grave goods) that can be found in the burials. These decay factors are also exacerbated by the extreme variation in temperatures daily and seasonally. There is also a threat of earthquake activity in the Almaty region, and fires in the steppes. In terms of human factors, uncontrolled visitation and graffiti pose a threat to the integrity of the component parts.

Authenticity

The natural and cultural features and setting of the property, Petroglyphs within Archaeological Landscape of Tamgaly, maintain a high degree of authenticity. All of the important components of the cultic centre are present and clearly legible.

Protection and management requirements

The Petroglyphs within Archaeological Landscape of Tamgaly is a Property of National Significance, inscribed on the List of Monuments of History and Culture in 2001. It is owned by the State and protected under the 1992 Law on the Protection and Use of Historical and Cultural Heritage. The property and its buffer zone are a territory of the State Archaeological Reserve of Tamgaly, a reserve-museum established under the Ministry of Culture of the Republic of Kazakhstan in 2003, as a permanent management agency for the property. The management authority has offices at the visitor centre on the territory adjacent to the buffer zone and comprises five departments: administration, scientific research, archive, logistics, and security services. A representative's office for the reserve-museum is housed in the regional administrative centre of Usyn-Agash.

The activities of the reserve-museum staff are focused on ensuring proper protection and conservation of the property and buffer zone, and its cultural and natural components. These activities are based on the property's Management Plan, which is updated every five years and the General Concept for the State Reserve-Museums Development (2009). The activities are also focused on developing cooperation between all interested institutions in the fields of conservation, scientific research, tourism, education, among others.

Among the current priorities of the reserve-museum is updating the management plan developed by the joint UNESCO- Norwegian-Kazakhstan project for the 2012-2017 period. The most important issues affecting the property's protection and conservation will be considered in the context of this project.

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		×			
3.2.2		×			

3.2.3		×			
3.2.4	()	×			
3.2.5		×			
3.2.6					
3.2.7					
3.2.8					
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

The main components of the cultural landscape have been preserved in the form of petroglyphs of various degrees of visibility (from the blue-black bronze age and early iron age to light gray-later time), mostly low stone-earth mounds and stone graves-boxes that barely stand out on the surface, as well as low ruins of stone walls of dwellings and pens. Despite the presence of individual sections of ancient rock mass destruction (groups II, III) and modern autographs (groups IV-V), the petroglyph gallery as a whole retains its integrity and representativeness. With the exception of petroglyphs, the archaeological sites of the complex are mostly hidden underground. Traces of previous archaeological excavations (earth dumps, shallow grave excavations) are generally insignificant, partially eliminated and do not stand out in the context of other monuments and landscape. The ruins of modern buildings on the territory of the bronze age burial grounds did not violate the preservation of ancient graves, mostly hidden by the upper layer of soil. The proximity of salty ground water affects the condition of bone remains and artefacts, but most of the archaeological remains are well preserved. In conclusion, it should be noted that the level of integrity, authenticity and preservation of the landscape as a whole and its individual components is high.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

Previous answer Cycle 2 (29/07/2011):

- Relevant, Positive, Negative, Potential, Outside

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

4.1.2 - Commercial development

Previous answer Cycle 2 (29/07/2011):


- Not relevant




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

4.1.3 - Industrial areas

Previous answer Cycle 2 (29/07/2011):

- Not relevant



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

Positive 							
Negative 							

4.1.4 - Major visitor accommodation and associated infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

 Relevant				Not relevant			
	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 (29/07/2011):

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

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

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

The archaeological landscape of Tamgaly is located 170 km from Almaty, so there are not modern buildings nearby, such as factories, shopping centers, etc.that could harm the integrity of the tract.In addition to the 3,800 ha of the reserve's total area, 24 ha were allocated separately for the construction of the Visit center.The visit center has a hotel and a dining room,which today has an advantage for tourists who come for a long time.As well as a laboratory for scientific research.

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- 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 							

4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	 Not relevant
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4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	 Not relevant
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4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

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

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

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

Remove the highway remaining from Soviet times with a length of 4 kilometers outside the territory of the reserve

4.3. Services Infrastructures










4.3.1 - Water infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant

Not relevant

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

4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.3.4 - Localised utilities

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.3.5 - Major linear utilities

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

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 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.4.2 - Ground water pollution

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.4.3 - Surface water pollution

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.4.4 - Air pollution

Previous answer Cycle 2 (29/07/2011):

- Not relevant

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

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.4.6 - Input of excess energy

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	<input checked="" type="checkbox"/> 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 (29/07/2011):

- Not relevant

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

Previous answer Cycle 2 (29/07/2011):

- Not relevant

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

Previous answer Cycle 2 (29/07/2011):

- Not relevant











Relevant	<input checked="" type="checkbox"/> Not relevant
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4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (29/07/2011):

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

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

4.5.5 - Crop production

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (29/07/2011):

- Not relevant

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

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.5.9 - Subsistence hunting

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.5.10 - Forestry/Wood production

Previous answer Cycle 2 (29/07/2011):

- 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 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.6.2 - Quarrying

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.6.3 - Oil and gas

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.6.4 - Water (extraction)

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ 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 (29/07/2011):

- Relevant, Negative, Current, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	🌍 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕			✕		➡	

4.7.2 - Relative humidity

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.7.3 - Temperature

Previous answer Cycle 2 (29/07/2011):

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

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕	✕		→	

4.7.4 - Radiation/Light

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Inside

Relevant	✕ Not relevant
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4.7.5 - Dust

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕	✕		→	

4.7.7 - Pests

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕			→	

4.7.8 - Micro-organisms

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕			→	

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 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.8.2 - Society's valuing of heritage

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.8.4 - Changes in traditional ways of life and knowledge system

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.8.5 - Identity, social cohesion, changes in local population and community

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (29/07/2011):

- 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							

4.8.7 - 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 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.3 - Military training

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.4 - War

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.5 - Terrorism

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.6 - Civil unrest

Previous answer Cycle 2 (29/07/2011):

- 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 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.10.2 - Flooding

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Inside

Relevant	✕ Not relevant
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4.10.3 - Drought

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.10.4 - Desertification

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.10.6 - Temperature change

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Inside

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

4.10.7 - Other climate change impacts

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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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 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.11.2 - Earthquake

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕	✕	↘		

4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.11.6 - Fire (wildfire)

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕			✕	↘		

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 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive ✕		✕	✕	✕		→	
🔴 Negative							

4.12.3 - Invasive/Alien freshwater species

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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4.12.6 - Modified genetic material

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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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

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕				↗
➖ Negative							

4.13.2 - Legal framework

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕				↗
➖ Negative							

4.13.3 - Governance

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕				↗
➖ Negative							

4.13.4 - Management activities

Previous answer Cycle 2 (29/07/2011):










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

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕				↗
➖ Negative							

4.13.5 - Financial resources

✕ Relevant	Not relevant
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	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 (29/07/2011):

- Not relevant

✕ 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 (29/07/2011):

- Not relevant

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

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						
4.1.1 Housing					→	
4.1.2 Commercial development						↗
4.1.3 Industrial areas						↘
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						
4.3 Services Infrastructures						
4.3.1 Water infrastructure						
4.5 Biological resource use/modification						
4.5.4 Livestock farming/Grazing of domesticated animals						
4.7 Local conditions affecting physical fabric						
4.7.1 Wind						
4.7.3 Temperature						
4.7.6 Water (rain/water table)						
4.7.7 Pests						
4.7.8 Micro-organisms						
4.8 Social/Cultural uses of heritage						
4.8.6 Impacts of tourism/Visitation/Recreation						
4.10 Climate change and severe weather events						
4.10.6 Temperature change						
4.11 Sudden ecological or geological events						
4.11.2 Earthquake						
4.11.6 Fire (wildfire)						
4.12 Invasive/alien species or hyper-abundant species						
4.12.2 Invasive/Alien terrestrial species						
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						
4.13.8 High 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
4.1.1 Housing					

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
4.1.2 Commercial development	 		

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
4.1.3 Industrial areas	 		




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
4.1.4 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

4.3 Services Infrastructures

Name	Impact	Origin	Trend
4.3.1 Water infrastructure	<div>+</div> <div></div> <div>🗨️</div>	<div>🌐</div> <div></div> <div></div>	<div>→</div> <div></div> <div></div>
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

4.5 Biological resource use/modification

Name	Impact	Origin	Trend
4.5.4 Livestock farming/Grazing of domesticated animals			
	 		 



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 checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input 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 checked="" type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

4.7 Local conditions affecting physical fabric

Name	Impact	Origin	Trend
4.7.1 Wind			
	 		 






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

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
4.7.6 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

Name		Impact		Origin		Trend
4.7.7 Pests						
						
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
4.7.8 Micro-organisms						
						

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
4.8.6 Impacts of tourism/Visitation/Recreation	 		

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






Temporal scale - Occurence 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
4.10.6 Temperature change	 	 	

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

4.11 Sudden ecological or geological events

Name	Impact	Origin	Trend
4.11.2 Earthquake			

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
4.11.6 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

4.12 Invasive/alien species or hyper-abundant species





Name	Impact	Origin	Trend
4.12.2 Invasive/Alien terrestrial species	 	 	

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

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
4.13.4 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										
X	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										
X	Significant										
	Major										
Management response - Capacity of management to respond											
X	High capacity										
	Medium capacity										
	Low capacity										
	No capacity and / or resources										
Trend - Development over the last 6 years											
	Decreasing										
	Static										
X	Increasing										

Name	Impact			Origin		Trend
4.13.7 Low impact research/monitoring activities						

Spatial scale - Area affected by the factor											
	Restricted										
	Localised										
X	Extensive										
	Widespread										
Temporal scale - Occurrence of the impact											
	One off or rare										
	Intermittent or sporadic										
X	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
4.13.8 High 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

The work is carried out within the framework of the national strategy. Since the object is a state institution, all factors are affected by the state.

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	Petroglyphs	×			
4.18.1.2	Burials	×			
4.18.1.3	Settlements	×			
4.18.1.4	Ancient quarries	×			
4.18.1.5	Religious building	×			

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 site's territory is sufficient to preserve outstanding universal value. To improve the preservation of historical monuments and natural resources of the object, it is necessary to enclose the territory of the reserve.

5.2. Protective Measures

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

The majority of the site is owned by the State. There are a few private properties, mostly burial grounds. The site is protected by the 1992 Law on the Protection and Use of Historical and Cultural Heritage. The Archaeological Landscape is a Property of National Significance inscribed on the Kazakh List of Monuments of History and Culture of National Significance in 2001.

Comment

The territory of the State historical, cultural and natural reserve-Museum includes the Tamgaly archaeological landscape, with an area of 900 hectares, and its buffer zone of 2900 hectares, together they make up the protected zone - the territory of the reserve-Museum, with a total area of 3800 hectares. There are no private or proprietary properties on the property.

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

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?

The **legal framework** for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property provides an **adequate basis for effective management and protection**

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?

The **legal framework** in the buffer zone for the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property provides an **adequate basis for effective management and protection**

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?

The **legal framework** for the broader setting of the World Heritage property provides an **adequate basis for effective management and protection** of the property,

contributing to the maintenance of its Outstanding Universal Value including conditions of Authenticity and/or Integrity

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

Law of the Republic of Kazakhstan dated July 2, 1992 N 1488-XII. Invalid by the law of the Republic of Kazakhstan dated December 26, 2019 No. 288-VI

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

The legislation of the Republic of Kazakhstan on the protection and use of objects of historical and cultural heritage is based on the Constitution of the Republic of Kazakhstan and consists of this law, as well as other normative legal acts of the Republic of Kazakhstan.

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

Public management system at national level

If 'Other', please specify

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

A statutory Management Plan or zoning plan for the property.

Other forms of statutory or non-statutory plans (e.g. strategic plans)

Traditional ways of management recognised by local communities and other specific groups

An integrated management plan combining World Heritage and any other designations

A management plan

An annual work plan or business plan


A visitor/visitation management plan

A joint approach to management of cultural and natural heritage

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

Management plan for 2015-2020.

5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
Management Plan for the Archaeological Landscape of Tamgaly	In Force	Available	2004	

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?

Some 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.

Construction of the visitor center, conservation and improvement works were Carried out.

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 **adequate coordination** between all bodies/levels involved in the management of the property

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

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

5.3.13 - Is the management system being implemented?

The management system is being **fully implemented and monitored**

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	3 %	3 %
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)	0 %	0 %
6.1.1.7	Governmental (regional/provincial/state)	89 %	89 %
6.1.1.8	Governmental (local/municipal)	3 %	3 %
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.)	5 %	5 %
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

Ministry of culture and sports of the Republic of Kazakhstan

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

A 34-km-long highway was built and a visit center was built with state funds.

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	70 %	0 %
6.1.6.2	Women	30 %	0 %
		Total 100 %	Total 0 %

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

Human resources are **adequate** for management needs

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	Good
Research and monitoring	Good
Awareness raising and public information/communication	Good

Marketing and promotion	Good
Interpretation	Good
Visitor management/tourism	Good
Enforcement (custodians, police)	Good

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	Fair
Capacity development and education	Fair
Administration	Good
Research and monitoring	Fair
Awareness raising and public information/communication	Good
Marketing and promotion	Good
Interpretation	Good
Visitor management/tourism	Good
Enforcement (custodians, police)	Good

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

Training and capacity building at this property is **fully based** on 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.

Restoration work, fencing of the reserve, restoration of flora and fauna for the complete preservation of monuments.

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

recruitment of specialists for the development of the museum-reserve

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 **comprehensive, integrated programme** of research, which is relevant to management needs and/or improving understanding of Outstanding Universal Value

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	Good
Local/municipal authorities	Good
Indigenous peoples	Good
Landowners	Good

Women	Good
Youth/children	Good
Researchers	Good
Local visitors	Good
National/international tourists	Fair
Tourism industry	Fair
Local businesses and industries	Good
NGOs	Good
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 **planned and effective education and awareness programme** for children and youth that contributes to the protection of the World Heritage property

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

Local communities
Local/municipal authorities
Indigenous peoples
Landowners
Women
Youth/children
Researchers
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	Good
Online (website, social media, etc.)	Good
Transportation facilities	Fair
Other	Not needed
If 'Other' is selected, please specify	

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

Currently, visitors to Tamgaly have the following sources to gain knowledge about the monument and its cultural and natural components: - Guides, tour guides who accompany tourist buses to the object; - Guides of the reserve-museum; - Information booklet and map for visitors; - Scientific publications. - Popularization in social networks. - Information kiosks.

9. Visitor Management

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

1043 / 8853 / 5680 / 4043 / 2754 /

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

Entry tickets and registries

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

One to three hours

9.4 - Please provide the source of information

We register each tourist, write down the license plates of cars and accompany them during the tour. In 2020, the number of tourists decreased due to the global pandemic.

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

3 / 57 /

9.6 - Please provide the source of information

We make souvenir products, such as: brochure, magnets, key rings, plates, mugs and so on.

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 planned and **effective strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property

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

This section covers all issues related to the management of visitors.

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, through the UNESCO Tourism Management Assessment Tool

If a different system, please specify

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

Ministry of Culture and Sports of the Republic of Kazakhstan

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

Yes

If 'Yes', please specify

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
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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				×

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	Good
Local/municipal authorities	Good
Local communities	Good
Indigenous peoples	Fair
Landowners	Fair
Women	Fair
Researchers	Good
Tourism industry	Good
Local businesses and industry	Fair
NGOs	Fair
Other specific groups	Poor
If you selected 'Other specific groups', please specify	

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

Implementation is underway

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

5.3	Management System/Management Plan	
5.3.5	Some 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	×
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	×
6.1.12	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	×
9	Visitor Management	
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	×

Please select 0 more issues.

☒ 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

4.5 Biological resource use/modification							
4.5.4	Livestock farming/Grazing of domesticated animals	The total area of the specially protected territory of the Tanbaly Reserve-Museum is 3800 ha. Near the territory there are fazendas with cattle and small cattle, which sometimes enter the territory of the reserve	There are farms outside the Museum Reserve, and the village of Karabastau is 4 km away. Therefore, there are cases of admission of cattle to the territory of the museum-reserve. The protection of the museum-reserve in time prevents the situation.	The territory of the museum-reserve is under protection 7 days a week, 24 hours a day.	For 12 months, the reserve will be under the control of the museum staff.	There are museum staff and an additional special security agency.	In a specially protected area, it is prohibited to conduct economic activities (grazing of domestic animals, cutting down vegetation, hunting, etc.)
4.7 Local conditions affecting physical fabric							
4.7.1	Wind	The long-term average annual wind speed is 3.3-5.0 m / sec. The area is characterized by significant dryness of the air. The maximum values of relative humidity are observed in winter 70-80%, and the minimum values in summer are 40-50%	Since the historical monuments are in the open air, it is understandable that they will be damaged by the wind. Therefore, we monitor the speed and direction of the wind throughout the year.	A meteorological station has been installed on the territory of Karabastau. Hence the wind speed and direction are determined once a month.	Wind direction and speed are determined throughout the year.	Works with a special weather station.	The wind directions are north-east and south-east. The long-term average annual wind speed is 3.3-5.0 m / s. At high summer temperatures, strong winds significantly increase evaporation and exacerbate the aridity of the climate. The area is characterized by significant dryness of the air. The maximum values of relative humidity are observed in winter 70-80%, and the minimum in summer-40-50%.
4.7.3	Temperature	The recorded record low temperature is 40°. The average temperature of the warmest month (July) is +25.2°, the absolute maximum is +43°. The annual temperature range is 79°	Since the historical monuments are in the open air, it is understandable that they will be damaged by the wind. Therefore, we monitor the speed and direction of the wind throughout the year.	A meteorological station has been installed on the territory of Karabastau. Hence the wind speed and direction are determined once a month.	Wind direction and speed are determined throughout the year.	Works with a special weather station.	The long-term average air temperature for this territory is 7-10 degrees. The coldest month is January with an average temperature of 11.6 degrees. A record low temperature of -40 degrees was recorded. The average temperature of the warmest month (July) is +25.2 degrees, the absolute maximum is +43 degrees. The annual temperature range is 79 degrees. The amplitude of the air temperature of the day and night sometimes reaches 25 degrees. A sharp temperature drop is observed in April and November. The duration of the frost-free period is 169 days.
4.7.6	Water (rain/water table)	The actions of rain and meltwater on the one hand washes away the crumbled material, on the other hand precipitation, in the form of acid rain, brings acid, oxygen and other agents that chemically affect the rocks, as well as ground water	The cracks in the stone are covered with gravel. In the upper part of the rock, special ditches are installed.	Drainage channels are cleaned so that water does not accumulate in cracks caused by water.	The water channels are monitored all year round.	the work is carried out by the staff of the museum-reserve.	The hydrographic network of the Tanbaly district is well developed, but there are no permanent watercourses. The largest watercourse of the district – Aschisu During the spring snowmelt on numerous logs and dry beds are short-term rapid flows of

							meltwater. In summer, the riverbeds dry up; weak year-round runoff is observed only in the places where the springs come out. The ground water is deep. The zone of wedging is located along the fault at the foot of the removal cones.
4.7.7	Pests	plants and lichens grow in wet cracks, causing not only mechanical, but also chemical effects on the period	The surface of the stone is cleaned of lichens, moss and sedges with a special chemical solution.	Periodic seasonal monitoring of lichens, mosses and sedges on the surface of rocks.	Monitoring is carried out all year round.	the work is carried out by the staff of the museum-reserve.	* Lichens do not create new pores on surfaces, they use existing cracks and holes and develop horizontally on the surfaces of rock outcrops; * Lichen activity is much more active in wet conditions (in Tamgaly-along cracks and faults through which water seeps to the surfaces); • There is no evidence of lichen penetration into the weathering layer; * Mosses grow in moist, shaded areas; since the petroglyph planes face the sun and are exposed to solar radiation, mosses are not a big problem in Tamgaly.
4.7.8	Micro-organisms	Mosses and lichens also play an important role in the destruction of patina, they grow on rocky surfaces and cause biochemical processes	Conservation works will be carried out on hazardous rock surfaces identified as a result of monitoring.	Quarterly monitoring work is carried out.	Quarterly monitoring work is carried out.	The work is carried out by the staff of the museum-reserve.	Insects are very numerous, some of them can pose a danger to humans - these are Ixodid mites (Ixodidae), karakurt spider (Latrodectus tredecimguttatus), yellow scorpion (Buthus eupeus), salpugi (Solifugae).
4.11	Sudden ecological or geological events						
4.11.2	Earthquake	The Tanbaly area is also currently seismically active, and an earthquake of up to 5-6 points on a 12-point scale can occur here	This factor is spontaneous and it is necessary to take it into account in a special program for emergency situations, the development of which must be foreseen in the future, having previously studied the existing experience on similar monuments in.	Timely monitoring of the rock surface is carried out in connection with the consequences of the earthquake.	Timely monitoring of the surface of rocks is carried out on a quarterly basis in connection with the consequences of an earthquake.	The work is carried out by the staff of the museum-reserve.	The Tamgaly area is also currently seismically active, and earthquakes of up to 5-6 points on a 12-point scale can occur here.
4.11.6	Fire (wildfire)	Steppe fires are one of the special phenomena in the hot season on the steppe territories adjacent to the monument, and are one of the serious threats to the monument and directly to the petroglyphs	Employees of the Tanbaly Museum-Reserve, together with the employees of the fire department, carry out fire-fighting measures.	In the summer, the monitoring is strictly controlled by the museum staff.	In the summer, the monitoring is strictly controlled by the museum staff.	The work is carried out by the staff of the museum-reserve and the staff of the fire department.	In the specially protected area, preventive work on fire safety is carried out with employees and tourists regularly. Over the past 5 years, no cases of fires have been recorded.

Summary - Factors affecting the Property **completed**

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

5.3	Management System/Management Plan				
		Actions	Timeframe	Lead agency (and others involved)	More info / comment
5.3.5	Some use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	One of the most important tasks of the reserve-museum is to ensure adequate protection and use of the monument of world importance in accordance with the requirements of the UNESCO World Heritage Convention	One of the most important tasks of the reserve-museum is to ensure adequate protection and use of the monument of world importance in accordance with the requirements of the UNESCO World Heritage Convention	The organization responsible for the management. The Ministry of Culture and Sports of the Republic of Kazakhstan performs administrative work, coordinates the work of the inspection for the protection of cultural heritage and coordinates the monito	The organization responsible for the management. The Ministry of Culture and Sports of the Republic of Kazakhstan performs administrative work, coordinates the work of the inspection for the protection of cultural heritage and coordinates the monitoring of subordinate organizations related to cultural heritage, which deal with issues of protection, research, project planning and implementation, management and conservation. The Ministry also develops and submits to the Government for approval plans and proposals for further activities related to cultural heritage.
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	Since the landscape of the Tamgaly tract is located in a semi-desert zone with a sharply continental climate, today it is sparsely populated. There are several mountain streams and streams, but they mostly dry up in the summer, when there are only a few sources that give water to people and animals. The most expressive and important natural elements of the landscape are a rocky canyon on the S-shaped meander of the Tamgaly River and a large single hill on its left bank, at the mouth of the gorge, on the border of the mountain and plain zones. Both objects – the mountain and the canyon-have a visually perceived connection on the ground, while at the same time maintaining their independence (autonomy) in the internal organization of space. Both objects have certain natural advantages, which were practically and symbolically used by the population of the Bronze Age and subsequent periods. In addition to these main natural features, the terrain is characterized by conical hills that make up a harmonious and diverse steppe landscape.	Since the landscape of the Tamgaly tract is located in a semi-desert zone with a sharply continental climate, today it is sparsely populated. There are several mountain streams and streams, but they mostly dry up in the summer, when there are only a few sources that give water to people and animals. The most expressive and important natural elements of the landscape are a rocky canyon on the S-shaped meander of the Tamgaly River and a large single hill on its left bank, at the mouth of the gorge, on the border of the mountain and plain zones. Both objects – the mountain and the canyon-have a visually perceived connection on the ground, while at the same time maintaining their independence (autonomy) in the internal organization of space. Both objects have certain natural advantages, which were practically and symbolically used by the population of the Bronze Age and subsequent periods. In addition to these main natural features, the terrain is characterized by conical hills that make up a harmonious and diverse steppe landscape.	Since the landscape of the Tamgaly tract is located in a semi-desert zone with a sharply continental climate, today it is sparsely populated. There are several mountain streams and streams, but they mostly dry up in the summer, when there are only a few sources that give water to people and animals. The most expressive and important natural elements of the landscape are a rocky canyon on the S-shaped meander of the Tamgaly River and a large single hill on its left bank, at the mouth of the gorge, on the border of the mountain and plain zones. Both objects – the mountain and the canyon-have a visually perceived connection on the ground, while at the same time maintaining their independence (autonomy) in the internal organization of space. Both objects have certain natural advantages, which were practically and symbolically used by the population of the Bronze Age and subsequent periods. In addition to these main natural features, the terrain is characterized by conical hills that make up a harmonious and diverse steppe landscape.	Since the landscape of the Tamgaly tract is located in a semi-desert zone with a sharply continental climate, today it is sparsely populated. There are several mountain streams and streams, but they mostly dry up in the summer, when there are only a few sources that give water to people and animals. The most expressive and important natural elements of the landscape are a rocky canyon on the S-shaped meander of the Tamgaly River and a large single hill on its left bank, at the mouth of the gorge, on the border of the mountain and plain zones. Both objects – the mountain and the canyon-have a visually perceived connection on the ground, while at the same time maintaining their independence (autonomy) in the internal organization of space. Both objects have certain natural advantages, which were practically and symbolically used by the population of the Bronze Age and subsequent periods. In addition to these main natural features, the terrain is characterized by conical hills that make up a harmonious and diverse steppe landscape.
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	First of all, these are natural and climatic factors:the impact of wind, precipitation,solar radiation.It is impossible to exclude the influence of these factors,since the rocks with the images are located in the open air in a natural environment	all year round	The Ministry of Culture and Sports of the Republic of Kazakhstan, Museum-Reserve Tamgaly	The hydrographic network of the Tamgaly region is well developed, but there are no permanent watercourses. The largest watercourse of the district is the Aschisu River. During the spring snowmelt, short-term rapid flows of meltwater pass through numerous logs and dry channels. In summer, the riverbeds dry up; weak year-round flow is observed only in the places where the springs come out. The ground water is deep. The zone of wedging is located along the fault at the foot of the removal cones.
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	Every year, a certain amount is allocated from the state budget for the protection, management, monitoring and care of the monument, this amount includes the salaries of museum employees, as well as funds for the care of buildings and equipment on the monument. An amount of 535 million tenge was allocated from the state budget for the construction of the visit center, today the construction is completed and operates normally. The museum has paid services, such as entrance tickets, souvenirs and printed publications.	all year round	Ministry of Culture and Sports of the Republic of Kazakhstan	Every year, a certain amount is allocated from the state budget for the protection, management, monitoring and care of the monument, this amount includes the salaries of museum employees, as well as funds for the care of buildings and equipment on the monument. An amount of 535 million tenge was allocated from the state budget for the construction of the visit center, today the construction is completed and operates normally. The museum has paid services, such as entrance tickets, souvenirs and printed publications.
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	Ministry of Culture and Sports of the Republic of Kazakhstan	all year round	Ministry of Culture and Sports of the Republic of Kazakhstan	The issues of the financial part for the promotion and preservation of the reserve-museum are considered. To date, a project has been developed, and now there is a partial work by higher authorities.

9	Visitor Management				
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	Information about the monument is disseminated in printed publications, Internet resources, museum exhibitions, etc.	all year round	Ministry of Culture and Sports of the Republic of Kazakhstan, Museum Reserve Tamgaly.	Tourist companies make a call in advance and warn about their planned visit to the reserve, tourists are accompanied by our certified guides and employees of the reserve-museum. All tourists and visitors register and fill out a questionnaire.

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.

The most significant, and at the same time the most vulnerable part of the complex are rocks with petroglyphs. The bedrock of Tamgaly is sandstone. Currently, the monument is under reliable protection due to the established permanent protection and a protective barrier built to prevent traffic from entering the rock canyon. The damage caused by visitors has been significantly reduced thanks to the construction of trails for visitors on the main routes, as well as improvements in the methods of protection of the complex and maintenance of excursions. In conclusion, it should be noted that the level of integrity, authenticity and preservation of the landscape as a whole and its individual components is high.

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	Positive
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Research and monitoring	Very positive
Management effectiveness	Very 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	Very positive
Political support for conservation	Very positive
Legal/Policy framework	Very positive
Advocacy	Very positive
Institutional coordination	Very positive
Security	Very positive
Gender equality	Very positive
Provision of ecosystem services/ benefits to local communities	Positive
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	Very positive
Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Positive
Other	No impact
If 'Other', please specify	

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

He makes a significant contribution to the protection and further development of World Cultural Heritage sites.

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

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

Sustainable Development
Synergies
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 <i>World Heritage Convention</i>
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	Good
UNESCO World Heritage Centre	Good
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
Awareness raising
Advocacy

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

Answering questions, he helped us to develop a plan for the development of the museum-reserve.

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
Responsible persons for local designated sites under other international conventions/ programmes
UNESCO National Commission

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

Gender balance is explicitly considered and effectively 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

840 / 840 / 336 /

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?

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		×		
15.4.2.2	Clarity of questions			×	

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

If the plan of the questionnaire for the coming years is in this form

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	Good
UNESCO (other sectors/field offices)	Good
UNESCO National Commission	Good
ICOMOS International	Good
IUCN International	Good

ICCROM international/regional	Good
ICOMOS national/regional	Good
IUCN national/regional	Good

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

UNESCO World Heritage Centre	Good
State Party Representative (national Focal Point)	Good
UNESCO other sectors (e.g. field office)	Good
National Commission for UNESCO	Good
ICOMOS International	Good
ICCROM International/regional	Good
ICOMOS national/regional	Good
IUCN national/regional	Good
IUCN International	Good

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

Not applicable (i.e. I did not use these resources)

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

We participated in organized online seminars. organized at the highest level.

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

No item were proposed for update

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

this questionnaire helped us a lot in our work. we set new goals for ourselves in the future. in addition to this questionnaire, we ask you to organize online competitions.

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