

Frontiers of the Roman Empire – The Lower German Limes

1. World Heritage Property Data

1.1 - Name of World Heritage property

Frontiers of the Roman Empire – The Lower German Limes

1.2 - World Heritage property details


1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Valkenburg-Centrum	52.18 / 4.433	2.6	18.74	21.34	
Valkenburg-De Woerd North	52.172 / 4.438	0.97	12.18	13.15	
Valkenburg-De Woerd South	52.17 / 4.44	3.26	?	3.26	
Voorburg-Arentsburg	52.06 / 4.35	11.89	6.48	18.37	
Corbulo's canal Vlietwijk	52.125 / 4.46	3.31	167.09	170.4	
Corbulo's canal Starrenburg	52.109 / 4.437	1.31	?	1.31	
Corbulo's canal Knippolder	52.105 / 4.429	2.76	?	2.76	
Corbulo's canal Vlietvoorde	52.101 / 4.423	2.3	?	2.3	
Corbulo's canal Rozenrust	52.091 / 4.409	0.75	?	0.75	
Corbulo's canal Romeinsepad	52.084 / 4.399	0.44	?	0.44	
Leiden-Roomburg Park Matilo	52.133 / 4.517	8.16	10.37	18.53	
Leiden-Roomburg Besjeslaan	52.148 / 4.519	2.61	?	2.61	
Woerden-Centrum	52.086 / 4.884	1.44	5.94	7.38	
Utrecht-Limes road Zandweg	52.091 / 4.996	0.39	12.45	12.84	
Utrecht-Limes road Veldhuizen	52.086 / 5.008	0.46	?	0.46	
Utrecht-Limes road De Balije	52.08 / 5.022	3.32	?	3.32	
Utrecht-Hoge Woerd	52.086 / 5.043	12.63	21.77	34.4	
Utrecht-Groot Zandveld	52.095 / 5.051	0.83	2.84	3.67	
Utrecht-Domplein	52.091 / 5.122	2.64	8.96	11.6	
Bunnik-Vechten Marsdijk	52.058 / 5.166	80.83	51.88	132.71	
Bunnik-Vechten Provincialeweg	52.063 / 5.174	0.94	?	0.94	
Arnhem-Meinerswijk	51.971 / 5.874	2.75	4.12	6.87	
Elst-Grote Kerk	51.92 / 5.849	0.39	0.5	0.89	
Nijmegen-Valkhof area Valkhofpark	51.848 / 5.87	2.43	3712.38	3714.81	
Nijmegen-Valkhof area Hunnerpark	51.847 / 5.872	2.37	?	2.37	
Nijmegen-Hunerberg	51.839 / 5.882	50.13	?	50.13	
Nijmegen-Kops Plateau West	51.838 / 5.892	4.03	?	4.03	
Nijmegen-Kops Plateau North	51.839 / 5.895	0.86	?	0.86	
Nijmegen-Kops Plateau East	51.836 / 5.895	0.77	?	0.77	
Nijmegen-Kops Plateau Kopse Hof North	51.836 / 5.896	0.16	?	0.16	
Nijmegen-Kops Plateau Kopse Hof South	51.835 / 5.896	0.93	?	0.93	
Berg en Dal-aqueduct Mariënboom	51.826 / 5.888	1.53	?	1.53	
Berg en Dal-aqueduct Swartendijk	51.823 / 5.891	0.66	?	0.66	
Berg en Dal-aqueduct Cortendijk	51.82 / 5.89	0.26	?	0.26	

Berg en Dal-aqueduct Louisedal	51.818 / 5.9	5.86	?	5.86	
Berg en Dal-aqueduct Kerstendal	51.817 / 5.914	9.71	?	9.71	
Berg en Dal-De Holdeurn North	51.817 / 0	0.56	3.9	4.46	
Berg en Dal-De Holdeurn South	51.816 / 5.932	7.03	17.22	24.25	
Herwen-De Bijland	51.881 / 6.099	2.07	1013.14	1015.21	
Kleve-Keeken	51.841 / 6.078	4.52	374.71	379.23	
Kleve-Reichswald West	51.791 / 6.093	0.42	7.31	7.73	
Kleve-Reichswald East	51.791 / 6.106	0.17	?	0.17	
Till	51.777 / 6.239	75.84	150.98	226.82	
Kalkar-Kalkarberg	51.729 / 6.285	1.83	5.05	6.88	
Kalkar-Bornsches Feld	51.714 / 6.319	47.18	108.31	155.49	
Uedem-Hochwald Hochwald 1	51.692 / 6.352	2.93	106.16	109.09	
Uedem-Hochwald Hochwald 2	51.694 / 6.354	1.34	?	1.34	
Uedem-Hochwald Hochwald 3	51.692 / 6.357	2.45	?	2.45	
Uedem-Hochwald Hochwald 4	51.692 / 6.36	1.47	?	1.47	
Uedem-Hochwald Hochwald 5	51.693 / 6.363	1.63	?	1.63	
Uedem-Hochwald Hochwald 6	51.691 / 6.367	0.66	?	0.66	
Uedem-Hochwald Hochwald 7.1	51.689 / 6.366	0.57	?	0.57	
Uedem-Hochwald Hochwald 7.2	51.689 / 6.368	0.56	?	0.56	
Uedem-Hochwald Hochwald 8.1	51.688 / 6.365	0.16	?	0.16	
Uedem-Hochwald Hochwald 8.2	51.688 / 6.365	0.69	?	0.69	
Uedem-Hochwald Hochwald 9	51.69 / 6.365	1.27	?	1.27	
Uedem-Hochwald Hochwald 10	51.689 / 6.362	1.31	?	1.31	
Uedem-Hochwald Hochwald 11	51.688 / 6.359	1.55	?	1.55	
Uedem-Hochwald Hochwald 12	51.689 / 6.355	0.86	?	0.86	
Uedem-Hochwald Hochwald 13	51.689 / 6.351	1.65	?	1.65	
Wesel-Flüren Flürener Feld 1	51.682 / 6.559	1.5	84.86	86.36	
Wesel-Flüren Flürener Feld 2	51.683 / 6.561	1.17	?	1.17	
Wesel-Flüren Flürener Feld 3	51.685 / 6.562	2.51	?	2.51	
Wesel-Flüren Flürener Feld 4	51.685 / 6.564	2.67	?	2.67	
Xanten-CUT	51.667 / 6.444	90.19	39.86	130.05	
Xanten-Fürstenberg	51.64 / 6.47	126.17	137.08	263.25	
Alpen-Drüpt	51.587 / 6.546	36.2	53.7	89.9	
Moers-Asberg	51.432 / 6.67	7.56	40.61	48.17	
Duisburg-Werthausen	51.422 / 6.711	0.31	1.13	1.44	
Krefeld-Gellep	51.333 / 6.682	3.36	12.14	15.5	
Neuss-Koenenlager	51.182 / 6.724	28.51	141.13	169.64	
Neuss-Reckberg Wachturm	51.176 / 6.766	0.01	37.83	37.84	
Neuss-Reckberg Kleinkastell	51.174 / 6.769	0.27	?	0.27	
Monheim-Haus Bürgel	51.129 / 6.873	2.48	8.61	11.09	
Dormagen	51.093 / 6.84	5.81	35.42	41.23	
Köln-Praetorium	50.938 / 6.959	1.32	97.66	98.98	

Köln-Deutz	50.938 / 6.97	2.39	32.61	35	
Köln-Alteburg	50.905 / 6.977	6.03	55.43	61.46	
Kottenforst Nord Am Weißen Stein 1	50.735 / 6.977	2.68	23.68	26.36	
Kottenforst Nord Am Weißen Stein 2	50.731 / 6.983	0.72	?	0.72	
Kottenforst Nord Domhecken 5	50.714 / 6.961	1.65	82.98	84.63	
Kottenforst Nord Domhecken 1	50.714 / 6.973	3.79	?	3.79	
Kottenforst Nord Domhecken 2	50.717 / 6.978	2.11	?	2.11	
Kottenforst Nord Domhecken 3	50.715 / 6.982	1.9	?	1.9	
Kottenforst Nord Domhecken 4	50.716 / 6.986	1.9	?	1.9	
Kottenforst Nord Dürrenbruch 3	50.709 / 6.986	0.45	10.43	10.88	
Kottenforst Nord Dürrenbruch 2	50.708 / 6.988	1.68	?	1.68	
Kottenforst Nord Dürrenbruch 1	50.707 / 6.991	3.05	?	3.05	
Kottenforst Nord Pfaffenmaar 1 and 2	50.706 / 6.976	6.04	5.57	11.61	
Bonn	50.745 / 7.1	31.01	210.98	241.99	
Kottenforst Süd Oben der Krayermaar	50.693 / 7.044	1.9	4.49	6.39	
Kottenforst Süd Villiper Bach	50.661 / 7.081	1.09	175.04	176.13	
Kottenforst Süd Professorenweg 1	50.659 / 7.089	0.94	?	0.94	
Kottenforst Süd Professorenweg 2	50.659 / 7.094	0.77	?	0.77	
Kottenforst Süd Riesenweg	50.657 / 7.095	1.09	?	1.09	
Kottenforst Süd Wattendorfer Allee 2	50.665 / 7.083	1.56	?	1.56	
Kottenforst Süd Wattendorfer Allee 1	50.664 / 7.108	1.79	?	1.79	
Kottenforst Süd Bellerbuschallee	50.666 / 7.118	1.52	?	1.52	
Kottenforst Süd Villiprot	50.645 / 7.07	1.78	10.3	12.08	
Kottenforst Süd Heiderhof	50.657 / 7.143	1.46	1.1	2.56	
Iversheim	50.588 / 6.774	0.08	10.72	10.8	
Remagen	50.574 / 7.245	37.93	60.7	98.63	
Total (ha)		812.75	7196.54	8009.29	

1.4 - Map(s)

Title	Date	Link to source
Frontiers of the Roman Empire – The Lower German Limes - maps of the inscribed property	2021	

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

Comment

Websites: www.limeswelderdfgoed.nl; www.romeinen.nl; der-niedergermanische-limes.de, www.deutsche-limeskommission.de Instagram: @romeinselimes @deutsche-limeskommission

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

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

		The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme	The World Heritage property (in whole or in part) <u>is not</u> designated and/or protected under this convention/programme
2.1.1	International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		

2.1.2	List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme		×
2.1.5	Global Geoparks Network UNESCO Global Geoparks		×

2.2 - Please provide comments on 2.1 if necessary

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

No

2.4 - Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands of International Importance (The Ramsar List), if relevant, in the next three years?

No

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

No

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

No

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

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

2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	

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

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

No

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

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

No

2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you are aware.

3. Statement of Outstanding Universal Value

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

Statement of Outstanding Universal Value

Brief synthesis

Frontiers of the Roman Empire – The Lower German Limes ran for 400 km along the Lower Rhine, along the north-eastern boundary of the Roman frontier province of Germania Inferior (Lower Germany), from the Rhenish Massif south of Bonn (Germany) to the North Sea coast (the Netherlands). For more than 450 years from the late 1st century BC, it protected the Roman Empire against Germanic tribes. The first military bases were built in the last decades BC for the conquest of Germanic territories across the Rhine. Once this ambition had failed the left river bank was converted into a fortified frontier. Military installations of varying types and sizes and associated civil structures and infrastructures were built on the edge of the river. The frontier shared the phased disintegration of the Western Roman Empire until the mid-5th century. The remains of the Frontier illustrate the important impacts of the Roman military presence on the landscape and society of the periphery of the Empire.

The serial property of 102 component parts in 44 clusters illustrates the innovative responses of Roman military engineers to the challenges posed by the dynamic landscape of a lowland river, as witnessed by the positioning and design of the military installations and by water management works. Large early bases and small later strongholds are represented, reflecting strategic adaptation and development of military engineering. These first military bases represent the very beginning of the linear perimeter defence of the Roman Empire, which would develop into a coherent frontier system extending over three continents in the 2nd century AD. The wetland conditions have led to an outstanding preservation of timber and other organic remains, providing unparalleled insights into military construction, shipbuilding, logistics and supply of the Empire.

Criterion (ii): The extant remains of Frontiers of the Roman Empire – The Lower German Limes constitute significant elements of the Roman Frontiers present in Europe. With its legionary fortresses, forts, fortlets, watchtowers, linked infrastructure and civilian architecture, it exhibits an important cultural interchange at the height of the Roman Empire, through the development of Roman military architecture, extending the technical knowledge of construction and management to the very edges of the Empire. It reflects the imposition of a complex frontier system on the societies of the north-western part of the Roman Empire, introducing military installations and related civilian settlements, linked through an extensive supporting network. The frontier did not constitute an impregnable barrier, but controlled and allowed the movement of peoples including civilians and merchants, and profound changes and developments in settlement patterns, architecture, landscape design and spatial organisation.

Criterion (iii): As part of the Roman Empire's system of defence, the Lower German Limes bears an exceptional testimony to the maximum extension of the power of the Roman Empire through the consolidation of its north-western frontiers. The Frontier constitutes a physical manifestation of Roman imperial policy, and the spread of Roman culture and its traditions – military, engineering, architecture, religion, management and politics. The large number of human settlements associated with the defences contribute to an understanding of how soldiers and their families lived in this part of the Roman Empire.

Criterion (iv): Frontiers of the Roman Empire – The Lower German Limes was the earliest linear frontier of the Roman Empire, created as an answer to Rome's inability to control its northern neighbours by means of diplomacy. Its military installations illustrate the development of the large operational bases of a field army to the smaller installations required by an extended frontier line. Situated in an area which has always been a wetland, with outstanding preservation conditions, Frontiers of the Roman Empire – The Lower German Limes exhibits water management strategies and constructions employed by the military command of the Roman Empire. The component parts contain organic materials and artefacts bearing information of exceptional value to understandings of frontier life and on vanished traditions such as river boat building.

Integrity

The component parts of the serial property have been selected to represent the linearity and attributes of the Frontier, demonstrating the early development of the perimeter defence. They include the range of military installations and associated structures of a frontier system, explaining its functioning and development. The general state of conservation is good to very good. Most archaeological materials and structures are buried and are not exposed to significant threats. The component part boundaries and buffer zones are generally appropriate, although a number of minor revisions to the boundaries and buffer zones are recommended.

Authenticity

The archaeological sites that comprise the Frontiers of the Roman Empire – The Lower German Limes have a high level of authenticity. Virtually all the remains were buried during or soon after the Roman period and have been protected from later developments. The authenticity of form and design of nearly all elements is unaffected by changes after the Roman period. Stone walls, timber and organic remains have been preserved to a high level. The location and setting of the elements of the frontier have in most cases changed considerably by changes to the Rhine and changes in land use, including urbanisation. At four sites the present setting is reminiscent of the Roman landscape. Reconstructions occur at five sites and at others, interpretive visualisations have been established.

Protection and management requirements

The transnational serial property is legally protected by national and state laws on heritage protection of Germany (federal states of North Rhine-Westphalia and Rhineland-Palatinate) and the Netherlands. Management is coordinated by a joint Dutch-German Management Group, which is overseen by an Intergovernmental Committee. The joint Management Group sets out the main lines of the management and supervises the implementation of the national management plans and the periodic reporting, based on a Joint Declaration. The management organisation will cooperate with counterparts of the existing and future inscribed segments of the Frontiers of the Roman Empire. A framework for this international cooperation is provided by the Frontiers of the Roman Empire World Heritage Cluster set up in 2018 to support international collaboration in those fields relevant to the overall management and development of the Frontiers of the Roman Empire in Europe as World Heritage.

The Management Plan is strategic and high-level, and sets out the elements required for a common framework for the transnational serial property. Much of the needed detail will be developed at a later stage, including the development of individual site management plans. Recommendations for strengthening the management include the development of frameworks for research, interpretation and sustainable tourism, and establishment of Heritage Impact Assessment processes (for the component parts in Germany). Development of policy guidance on reconstructions and visualisations should be advanced through the transnational cooperation mechanisms established for the Frontiers of the Roman Empire.

Comment

Please delete the last 3 words of the brief synthesis ('of the empire')

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	Early military installations	✗			
3.2.2	Military structures responding to a dynamic riverine landscape	✗			
3.2.3	Timber military structures	✗			
3.2.4	Structures illustrating the impact of the military presence	✗			
3.2.5	Military installations reflecting the typological and chronological variety	✗			
3.2.6	Water-logged riverine rubbish deposits	✗			
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

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing
















✗ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✗	✗	✗	✗	✗		➡	

4.1.2 - Commercial development


Relevant	✗ Not relevant
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4.1.3 - Industrial areas

✗ 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

Relevant	 Not relevant
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4.1.5 - Interpretative and visitation facilities

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

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

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

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

4.2.2 - Underground transport infrastructure

Relevant	 Not relevant
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4.2.3 - Air transport infrastructure

Relevant	 Not relevant
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4.2.4 - Marine transport infrastructure

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

Relevant	 Not relevant
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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

4.3. Services Infrastructures

4.3.1 - Water infrastructure

Relevant	 Not relevant
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4.3.2 - Renewable energy facilities

Relevant	 Not relevant
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4.3.3 - Non-renewable energy facilities

Relevant	 Not relevant
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4.3.4 - Localised utilities

Relevant	 Not relevant
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4.3.5 - Major linear utilities

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

4.4. Pollution

4.4.1 - Pollution of marine waters

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.4.2 - Ground water pollution

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.4.3 - Surface water pollution

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

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

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

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

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

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










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

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

<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"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	

4.5.6 - Commercial wild plant collection

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

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

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

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

4.5.10 - Forestry/Wood production


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

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

Agriculture: deep ploughing risk on one site (Xanten Fürstenberg), under control

4.6. Physical resource extraction

4.6.1 - Mining

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

4.6.2 - Quarrying

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

4.6.3 - Oil and gas

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

4.6.4 - Water (extraction)

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

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

- Mining: underground salt mining in the area Xanten Fürstenberg, under control

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

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

4.7.2 - Relative humidity

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

4.7.3 - Temperature

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

4.7.4 - Radiation/Light











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

4.7.5 - Dust

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

4.7.6 - Water (rain/water table)

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

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

4.7.7 - Pests

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

4.7.8 - Micro-organisms

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

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

- Water: Groundwater level reduction











4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

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

4.8.2 - Society's valuing of heritage

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

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

4.8.3 - Indigenous hunting, gathering and collecting









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

4.8.4 - Changes in traditional ways of life and knowledge system

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











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

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

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

4.8.6 - Impacts of tourism/Visitation/Recreation

✕ 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

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

	Impact	Origin	Trend of impact
--	--------	--------	-----------------

Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.9.2 - Deliberate destruction of heritage

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

4.9.3 - Military training

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

4.9.4 - War

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

4.9.5 - Terrorism

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

4.9.6 - Civil unrest

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












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

Illegal excavations: Metal detecting without permission (under control)

4.10. Climate change and severe weather events

4.10.1 - Storms

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

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

4.10.2 - Flooding

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

4.10.3 - Drought

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

4.10.4 - Desertification

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


4.10.5 - Changes to oceanic waters

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

4.10.6 - Temperature change

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

4.10.7 - Other climate change impacts

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

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

Climate change (drought / temperature change): impact on organic remains has been addressed under 4.7.6

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

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

4.11.2 - Earthquake

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

4.11.3 - Tsunami/Tidal wave

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

4.11.4 - Avalanche/Landslide

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

4.11.5 - Erosion and siltation/Deposition

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

4.11.6 - Fire (wildfire)

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

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

- Erosion:

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

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

4.12.2 - Invasive/Alien terrestrial species

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

4.12.3 - Invasive/Alien freshwater species

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

4.12.4 - Invasive/Alien marine species

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

4.12.5 - Hyper-abundant species

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

4.12.6 - Modified genetic material











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

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

4.13. Management and institutional factors











4.13.1 - Management system/Management plan

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

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

4.13.2 - Legal framework

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

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

4.13.3 - Governance

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

4.13.4 - Management activities

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

4.13.5 - Financial resources

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

4.13.6 - Human resources

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

4.13.7 - Low impact research/monitoring activities

✕ 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

✕ 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						
	⊖	⚡	⚡	⊕	🔄	➡
4.1.3 Industrial areas						
	⊖	⚡	⚡	⊕	🔄	➡
4.1.5 Interpretative and visitation facilities	⊕	⚡	⚡	⊕	🔄	↗
	⊖	⚡		⊕		↘
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure						
	⊖		⚡	⊕	🔄	➡
4.5 Biological resource use/modification						
4.5.5 Crop production						
	⊖	⚡	⚡	⊕		➡
4.5.10 Forestry/Wood production	⊕	⚡	⚡	⊕		➡
	⊖	⚡	⚡	⊕		➡
4.6 Physical resource extraction						
4.6.1 Mining						
	⊖	⚡	⚡	⊕		↘
4.7 Local conditions affecting physical fabric						
4.7.2 Relative humidity						
	⊖	⚡	⚡	⊕		➡
4.7.6 Water (rain/water table)						
	⊖	⚡	⚡	⊕		➡
4.8 Social/Cultural uses of heritage						
4.8.2 Society's valuing of heritage	⊕	⚡	⚡	⊕	🔄	↗
4.8.5 Identity, social cohesion, changes in local population and community	⊕	⚡	⚡	⊕	🔄	↗
4.8.6 Impacts of tourism/Visitation/Recreation	⊕	⚡	⚡	⊕	🔄	↗
4.9 Other human activities						
4.9.1 Illegal activities						
	⊖	⚡	⚡	⊕	🔄	➡
4.10 Climate change and severe weather events						
4.10.1 Storms						
	⊖		⚡	⊕		➡
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	+	Current	Potential	+	Inside
4.13.6 Human resources	+	Current	Potential	+	Inside
4.13.7 Low impact research/monitoring activities	+	Current	Potential	+	Inside
4.13.8 High impact research/monitoring activities	+	Current	Potential	+	Inside
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 - 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						

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






Name		Impact			Origin		Trend
4.1.5 Interpretative and visitation facilities							
Spatial scale - Area affected by the factor							
<input type="checkbox"/>	Restricted						
<input type="checkbox"/>	Localised						
<input type="checkbox"/>	Extensive						
<input checked="" type="checkbox"/>	Widespread						
Temporal scale - Occurrence of the impact							
<input type="checkbox"/>	One off or rare						
<input type="checkbox"/>	Intermittent or sporadic						
<input type="checkbox"/>	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










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						

4.5 Biological resource use/modification

Name	Impact			Origin		Trend
4.5.5 Crop production						
						





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

Name	Impact			Origin		Trend
4.5.10 Forestry/Wood production						
						

Spatial scale - Area affected by the factor	
	Restricted
<input checked="" type="checkbox"/>	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic

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





4.6 Physical resource extraction

Name	Impact	Origin	Trend
4.6.1 Mining			
			
			




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

	Decreasing
	Static
✕	Increasing

4.7 Local conditions affecting physical fabric

Name	Impact	Origin	Trend
4.7.2 Relative humidity			
	  		






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

4.8 Social/Cultural uses of heritage

Name	Impact			Origin	Trend
4.8.2 Society's valuing of heritage					

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity

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

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








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

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

Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major

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






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

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

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

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


4.9 Other human activities

Name	Impact			Origin		Trend
4.9.1 Illegal activities						
						

Spatial scale - Area affected by the factor	
	Restricted
X	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
X	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
X	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
X	Medium capacity
	Low capacity

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

4.10 Climate change and severe weather events

Name	Impact	Origin	Trend
4.10.1 Storms			
			

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

4.13 Management and institutional factors

Name	Impact			Origin		Trend
4.13.1 Management system/Management plan						
Spatial scale - Area affected by the factor						
	Restricted					

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













Name	Impact			Origin		Trend
4.13.2 Legal framework						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	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
4.13.3 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
	Extensive
✕	Widespread

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

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major






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

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

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	  	 	

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

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

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 Lower German Limes consist of 102 component parts. The answers above reflect the average impact by each factor.

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

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

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	Early military installations	✗			
4.18.1.2	Military structures responding to a dynamic riverine landscape	✗			
4.18.1.3	Timber military structures	✗			
4.18.1.4	Structures illustrating the impact of the military presence	✗			
4.18.1.5	Military installations reflecting the typological and chronological variety	✗			

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 the management authority **but are not known** by local communities/landowners

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

5.2. Protective Measures

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

Comment

In The Netherlands the Heritage Act 2016 (Erfgoedwet – 2016) protects most of the WH-property. The Environment and Planning Act forms the basis for the protection of the bufferzones. See Management Plan, chapter 3. In North Rhine-Westphalia all component parts are protected by the Monument Protection Law, that explicitly includes the protection of UNESCO World Heritage property and buffer zones. Remagen is protected by the Monument Protection Act Rhineland-Palatinate.

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

2016 / Heritage Act 2016 (Erfgoedwet – 2016) / Law / No / No / No / No /
<https://english.cultureelerfgoed.nl/publications/publications/2016/01/01/heritage-act-2016>

2024 / Environment and Planning Act of the Netherlands (Omgevingswet – expected to be implemented 1-1-2024) / Law / Yes / No / No / No /
<https://iplo.nl/regelgeving/omgevingswet/english-environment-and-planning-act/>

2021 / Provincial Environmental Ordinance of Utrecht / Ordinance / Yes / No / No / No /
<https://omgevingswet.provincie-utrecht.nl/naar-een-visie/download-interim-omgevingsverordening>

2022 / Provincial Environmental Ordinance of Gelderland / Ordinance / Yes / No / No / No /
https://security-de.mimecast.com/ttpwp/?tkn=3.9w47KHYOfFhTWEiaGFdobX5pzjt2LmSU31MECfQK892u92Q2rCkZo8YeqLxuNLnla7GeQWG_xdVepkkwa2HJLxcn37-4VfeRiKWzwcxiDnrcjiX3X0rSlcPwSSCKNxdDWldZXxLEXXA0bAsDFI36hX5B40wF6MLF2WxeyqU.hU8GSUVAhDeZsQLDUdVrog#/checking?key=1rE2ttxM7ZEGPKPK2RfqzD-GPa4RZcS3DpNalLgpGCpv6J_Xbi78jaPWgoGRXUMtkOG2oU2HwF0mkyS_SnDfgearTcaXtdqpN6o7Bj9HvNIYWmrj8ndGKVDbilKL-3UWvThNMfSE_TxYg9Zhc-Fg/td>

2023 / Provincial Environmental Ordinance of Zuid-Holland / Ordinance / Yes / No / No / No / https://ruimtelijkeplannen.zuidholland.nl/vvp/plannen/NL.IMRO.9928.DOSx2016x1204358SV-OW01/b_NL.IMRO.9928.DOSx2016x1204358SV-OW01_1.pdf
diverse / Municipal Environment Plans / Environment Plans / Yes / No / No / No /
2019 / Monument Protection Law of North Rhine-Westphalia 2022 (Denkmalschutzgesetz DSchG NRW – ammended 2022) / Law / No / No / No / No / https://recht.nrw.de/lmi/owa/br_bes_text?anw_nr=2&gld_nr=2&ugl_nr=224&bes_id=48749&aufgehoben=N&menu=1&sg=0
2019 / State Development Programme (Landesentwicklungsprogramm LEP) for North Rhine-Westphalia / Ordinance / Yes / No / No / No / https://www.wirtschaft.nrw/system/files/media/document/file/20220915-lesefassung-lep.pdf
2016 / Regional Plan Köln (RPD) / Ordinance / Yes / No / No / No / https://www.bezreg-koeln.nrw.de/brk_internet/leistungen/abteilung03/32/regionalplanung/aktueller_regionalplan/index.html
2018 / Regional Plan Düsseldorf (RPD) / Ordinance / Yes / No / No / No / https://www.brd.nrw.de/system/files/migrated_documents/media/document/2019-02/rpd_plan_gesamt.pdf
Diverse / Municipal land use plans / Ordinance / Yes / No / No / No / https://www.bauportal.nrw/bauleitplanung/informationen-zur-bauleitplanung/flaechennutzungsplan
Diverse / Municipal development plans / Ordinance / Yes / No / No / No / https://www.bauportal.nrw/bauleitplanung/informationen-zur-bauleitplanung/bebauungsplan
2014 / Monument Protection Act Rhineland-Palatinate (Denkmalschutzgesetz Rheinland-Pfalz) / Law / No / No / No / No / https://landesrecht.rlp.de/bsrp/document/jlr-DSchPIIGRPV8IVZ
2008 (update 2023) / State Development Programme (Landesentwicklungsprogramm) for Rhineland-Palatinate / Ordinance / Yes / No / No / No / https://mdi.rlp.de/de/unsere-themen/landesplanung/landesentwicklungsprogramm/) and update january 2023 https://mdi.rlp.de/de/unsere-themen/landesplanung/landesentwicklungsprogramm/vierte-teilfortschreibung/
2017 / Spatial Development Plan Mittelrhein-Westerwald (Raumordnungplan) / Ordinance / Yes / No / No / No / https://mittelrhein-westerwald.de/index.php/veroeffentlichungen/raumordnungsplan
2004 / Land use plan for Remagen (Flächennutzungsplan) / Ordinance / Yes / No / No / No / https://www.remagen.de/Rathaus-Buergerservice/Bauen_-Umwelt_-Klimaschutz/Bauleitplanung/Flaechennutzungsplan/

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 **acceptable capacity/resources** to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain

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

The system of protection and the changes in law and regulations in The Netherlands are explained in the Management Plan, chapter 3, p. 41-46. The explanation is still accurate, only the implementation of the Environment and Planning Act of the Netherlands has been postponed to 2024. This has no consequences for the legal protection of the sites till then.

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

5.3. Management System/Management Plan

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

Public management system at provincial/regional 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.

Other forms of statutory or non-statutory plans (e.g. strategic plans)
Agreed 'Memorandums of Understanding' between different managing institutions, groups or others, including documents agreed with local communities for management
A management plan
An annual work plan or business plan
Other (please specify below)
Interpretation Frameworks and Brand document

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

The management plan has a duration of 2021 - 2027 and implementation is in full swing. Characteristic of the Lower German Limes as a transnational serial property is that it consists of 102 component parts with different characteristics. The involvement of local communities and visitor management take place at the level of individual sites, museum and visitor centers. It is therefore a tiered system of management and governance.

5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
Management Plan	N/A	Available	2021	

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?

The 2011 Recommendation on the Historic Urban Landscape is **not relevant** to this property

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

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

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

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

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

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

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

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

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

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

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

5.3.13 - Is the management system being implemented?

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

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

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

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

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

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

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities				✗	
5.3.16.2	Local/Municipal authorities				✗	
5.3.16.3	Indigenous peoples	✗				

5.3.16.4	Landowners			×		
5.3.16.5	Women	×				
5.3.16.6	Youth/Children				×	
5.3.16.7	Researchers					×
5.3.16.8	Local Visitors/Tourists				×	
5.3.16.9	National/International tourists			×		
5.3.16.10	Tourism Industry			×		
5.3.16.11	Local businesses and industries				×	
5.3.16.12	NGOs				×	
5.3.16.13	Other specific groups	×				
	If you selected 'Other specific groups', please specify					

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

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

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

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

6. Financial and Human Resources

6.1. Funding

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

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	40 %	0 %
6.1.1.7	Governmental (regional/provincial/state)	25 %	75 %
6.1.1.8	Governmental (local/municipal)	25 %	10 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	10 %	5 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	5 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	5 %
6.1.1.12	Other	0 %	0 %
		Total 100 %	Total 100 %

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

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

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

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

The existing sources of funding are **secure over the medium-term** and **planning is underway to secure funding over the long-term**

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

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

		From local communities %	From elsewhere %
6.1.6.1	Men	60 %	50 %
6.1.6.2	Women	40 %	50 %
		Total 100 %	Total 100 %

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

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

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

Conservation	Good
Environmental sustainability	Fair
Community participation and inclusion	Fair
Risk preparedness	Fair
Capacity development and education	Fair
Administration	Fair
Research and monitoring	Good
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Fair
Enforcement (custodians, police)	Fair

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

Conservation	Fair
Environmental sustainability	Fair
Community participation and inclusion	Fair
Risk preparedness	Poor
Capacity development and education	Poor
Administration	Fair
Research and monitoring	Fair
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Poor
Enforcement (custodians, police)	Poor

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

Some use has been made of the World Heritage Strategy for Capacity Building

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

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

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

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

Training programs are continuously provided by the state heritage management of North Rhine-Westphalia for local and municipal heritage managers. The Limes Association of the Netherlands helps the Limes community with publications and study meetings on topics as protection, conservation, interpretation and marketing.

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 **acceptable** for most key areas but there are gaps

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 **considerable research** but it is **not directed towards 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

Based on the Management Plan 2021-2027, D and NL work on a joint research strategy, which will be implemented this management period.

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	Poor
Local/municipal authorities	Good
Indigenous peoples	Not applicable
Landowners	Poor
Women	Not applicable
Youth/children	Poor
Researchers	Good
Local visitors	Poor
National/international tourists	Poor
Tourism industry	Poor
Local businesses and industries	Poor
NGOs	Poor
Other specific groups	Not applicable
If you selected 'Other specific groups', please describe	

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

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

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

Local communities
Local/municipal authorities
Landowners
Youth/children
Local Visitors

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

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

9. Visitor Management

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

000000000000 / 000000000000 / 0 / 0 / 0 /

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

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

0 / 0 / 0 / 0 / 0 /

9.6 - Please provide the source of information

Not possible to measure for serial site.

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors, tourism activity and its derived economic, socio-cultural and environmental impacts?

There **is a strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property but it is **not implemented**

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

The number of visitors to the LGL component parts is not so high that it poses a risk to the preservation of the World Heritage Site.

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?

There **is some management** of the visitor use of the World Heritage property

9.10 - Is the effectiveness of tourism management regularly monitored?

No

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 limited 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?

No

If 'Yes', please specify

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

Yes

If 'Yes', please specify

Hospitality sector)

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 **small amount of monitoring**, but it is not planned

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** but **monitoring of the status of indicators could be improved**

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

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

10.4 - Please provide information on relevant key indicators adopted at the property

The Management Plan 2021-2027 contains the key indicators regarding integrity, development, climate & nature, visitation & facilities. Implementation is in full swing.

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

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

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

Implementation is underway

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

The processes for adapting legal designation of all component parts is in full swing (in effect 2024). Management Plans for component parts are being developed. Water levels for component parts with waterlogged archaeological deposits are actively monitored, the effects of changes will be researched. The recommendations concerning knowledge and research will be addressed in the joint research strategy D-NL. D-NL agreed on developing a joint interpretation framework.

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

11. Identification of Priority Management Needs

11.1 - Identification of Priority Management Needs

5.1	Boundaries and Buffer Zones	
5.1.4	The buffer zones of the World Heritage property are known and recognised by the management authority but are not known and recognized by local communities/landowners	
5.2	Protective Measures	
5.2.6	There is acceptable capacity/resources to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain	
5.3	Management System/Management Plan	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	✗
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	✗
5.3.13	The management system at the property is only being partially implemented	✗
5.3.17	<ul style="list-style-type: none"> The management system of the World Heritage property does not contribute to gender equality In a limited manner, the management system of the World Heritage property does contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status In a limited manner, the management system of the World Heritage property does integrate a human rights-based approach In a limited manner, the management system of the World Heritage property does contribute to conflict prevention, including respect for cultural diversity within and around the World Heritage 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	✗
6.1.7	Human resources partly meet the management needs of the World Heritage property	✗
6.1.10	Some use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	
6.1.12	A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff	✗
7	Scientific Studies and Research Projects	
7.2	There is considerable research in the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	
8	Education, Information and Awareness Building	
8.2	There is a limited and ad hoc education and awareness programme for children and/or youth	✗
9	Visitor Management	
9.7	There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but it is not implemented	
9.9	There is some management of the visitor use of the World Heritage property	
9.11	There is limited cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation	
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	✗
10	Monitoring	
10.1	There is a small amount of monitoring at the World Heritage property, but it is not planned	✗
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	
Please select 0 more issues.		
<input checked="" type="checkbox"/> Please save this question to reflect changes		

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

4.1 Buildings and Development							
4.1.1	Housing	(iv), 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6	Housing development may affect aboveground and underground remains. Potential negative impacts will be avoided where possible or mitigated by adequate research in case of other considerations of overriding societal importance.	Any initiatives will come forward during the formal planning processes.	Continuously	National (NL), state (DE) and municipal heritage management authorities	None
4.1.5	Interpretative and visitation facilities	(ii), (iii), (iv)	The installation of uniformly designed information boards on sites is currently being coordinated. A thematic hiking and bike trail connecting component parts is being developed. Locally, several different on-site projects are being realised.	Part of the individual management plans.	Within the management period 2021-2027.	National (NL), state (D) and municipal heritage management authorities, museums, other stakeholders	None
4.2 Transportation Infrastructure							
4.2.1	Ground transport infrastructure	(iv), 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6	Extension or adaptation of major linear ground transport infrastructure (motorways, railways) are usually of overriding societal importance and difficult to avoid. Negative impacts will be avoided where possible or mitigated by adequate research.	Any initiatives will come forward during the formal planning processes.	Continuously	National (NL), state (DE) and municipal heritage management authorities	None
4.5 Biological resource use/modification							
4.5.5	Crop production	(iv), 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5.	Underground remains in agricultural areas may be impacted by ploughing. Deep ploughing is being avoided and ploughing of the top soil has been reduced, while the use of low impact cultivation increases.	Monitoring by field surveys after ploughing period.	Within the management period 2021-2027.	National (NL), state (DE) and municipal heritage management authorities, local responsible persons	None
4.5.10	Forestry/Wood production	(iv), 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5	Activities in the context of forest management (felling and transport of trees) may affect aboveground and shallow underground remains. Potential negative impacts may be avoided by agreements with forest managers.	Part of the individual management plans.	Within the management period 2021-2027.	National (NL), state (DE) and municipal heritage management authorities, forest management agencies, local responsible persons	None
4.7 Local conditions affecting physical fabric							
4.7.2	Relative humidity	(iv), 3.2.4, 3.2.5	Exposed (underground) wall remains may be impacted by salt efflorescence or formation of algae, moss or lichen. Conditions are being improved (ventilation, climate control) where needed.	The relative humidity at sites with exposed (underground) wall remains is being actively monitored by relevant authorities.	Continuously	National (NL), state (DE) and municipal heritage management authorities, local responsible persons	None

4.7.6	Water (rain/water table)	(iv), 3.2.1, 3.2.2, 3.2.3, 3.2.5, 3.2.6	The present state of the groundwater table has been assessed in a baseline monitoring campaign (coring). Currently, the surface water regulation regimes and groundwater fluctuation are being studied, to collect data for a monitoring system.	Along with other parameters indicative of the state of conservation the groundwater level will be monitored in a 6-year cycle.	Baseline information has been collected in 2022. A general monitoring campaign is foreseen in 2028.	National (NL) and state (DE) heritage management authorities, water boards	None
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4.9 Other human activities

4.9.1	Illegal activities	(iv), 3.2.1 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6.	Underground remains in open land areas may be impacted by illegal metal detector activities. Enhancing the awareness of the potential damage of metal detecting, promotion of cooperation with state/municipal services. Training of metal detectorists.	Within the management framework.	Within the management period 2021-2027.	National (NL), state (DE) and municipal heritage management authorities, local responsible persons	Metal detectorists without permission may hide finds and therefore cause irreparable damage to archaeological sites and impair investigation of them.
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4.10 Climate change and severe weather events

4.10.1	Storms	(iv), 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5	Storms may lead to windfall and thus affect aboveground and shallow underground remains. Potential negative impacts may only partly be prevented, by felling weakened trees in a timely manner, to be arranged in agreements with forest managers.	Part of the individual management plans.	Within the management period 2021-2027.	National (NL), state (DE) and municipal heritage management authorities, forest management agencies, local responsible persons.	None
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4.13 Management and institutional factors

4.13.3	Governance	(iv), 3.2.1 3.2.2, 3.2.3, 3.2.4, 3.2.5, 3.2.6.	The provinces of The Netherlands and the states of Germany will enter into a new Joint Declaration for the management of the LGL. Regular meetings of stakeholders to discuss and plan relevant management issues.	The governance structure is part of the implementation of the management plan 2021-2027.	New Joint Declaration in 2024. Meetings of stakeholders at least annually.	National (NL) and state (DE) heritage management authorities, local governments, municipalities, key stakeholders	Governance is sometimes vulnerable because a lot of governments, institutions and owners are involved in the management of the LGL.
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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
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	The relevance of the Policy Document on the Impacts of Climate Change on the LGL will be assessed.	Within the management period 2021-2027.	International Management Group	None
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	Regular meetings of stakeholders to dicuss and plan relevant management issues; possible in different combinations and at different levels (e.g. international, national, regional, local).	Within the management period 2021-2027	National (NL) and state (DE) heritage management authorities, local governments, municipalities, key stakeholders	None

5.3.13	The management system at the property is only being partially implemented	Joint research framework and individual management plans for the German part are in development.	Management period 2021-2027	National (NL) and state (DE) heritage management authorities, municipalities, universities.	We are implementing the first LGL management plan 2021-2027.
5.3.17	<ul style="list-style-type: none"> The management system of the World Heritage property does not contribute to gender equality In a limited manner, the management system of the World Heritage property does contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status In a limited manner, the management system of the World Heritage property does integrate a human rights-based approach In a limited manner, the management system of the World Heritage property does contribute to conflict prevention, including respect for cultural diversity within and around the World Heritage property 	The relevance of these topics on the LGL will be assessed.	Within the management period 2021-2027	International Management Group	The influence of the LGL management on these matters is often indirect, because the management of the sites is layered: lots of stakeholders are involved.
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	Take advantage of the opportunity to apply for (state) funding for various projects (e.g. new visitor centres, information panels) if required.	Within the management period 2021-2027.	National (NL) and state (DE) heritage management authorities, local governments, municipalities, key stakeholders, local communities	None

6.1.7	Human resources partly meet the management needs of the World Heritage property	Improve the involvement of (key) stakeholders, local communities and experts for the different management actions.	Within the management period 2021-2027.	National (NL) and state (DE) heritage management authorities, local governments, municipalities, key stakeholders, local communities	None
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	As regards interpretation and presentation, the establishment of an overarching framework outlining best practice standards for the training of guides on the World heritage site is sought for in Germany. The Limes Association of the Netherlands helps the Limes community with publications and study meetings on topics as protection, conservation, interpretation and marketing.	Within the management period 2021-2027.	National (NL) and state (DE) heritage management authorities, museums	None

8 Education, Information and Awareness Building

8.2	There is a limited and ad hoc education and awareness programme for children and/or youth	Encourage and provide stakeholders with content-related support to develop and further improve existing programmes for this target group.	Within the management period 2021-2027.	National (NL), state (DE) and municipal heritage management authorities, museums	None
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9 Visitor Management

9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	Application of corporate design for presentation and interpretation on the World Heritage sites. Installation of on-site information boards in an uniform design. Development of an overarching interpretation framework. Expansion of online presence.	Within the management period 2021-2027.	National (NL), state (DE) and municipal heritage management authorities, museums	None
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10 Monitoring

10.1	There is a small amount of monitoring at the World Heritage property, but it is not planned	Monitoring of general parameters indicative of the state of conservation has only just started. Additional studies are carried out regarding trees/forest and groundwater. Monitoring is a significant element of the individual site management plans.	In 2022 baseline information has been collected. A new general monitoring campaign is foreseen for 2028. Individual site management plans will be evaluated at a yearly basis.	National (NL), state (DE) and municipal heritage management authorities, owners, waterboards	None
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Summary - Management Needs completed

12.3. Conclusions on the State of Conservation of the Property

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

The Authenticity of the World Heritage property **has been preserved**

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

The Integrity of the World Heritage property is **intact**

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

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

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

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

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

13. Impact of World Heritage Status

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

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

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

It is almost impossible to measure the effects of Sustainable Development Goals. Museums related to the LGL do have a policy aimed at social inclusion, equity and respect for cultural diversity.

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

The recent inscription of the LGL on the World Heritage List as a transnational monument means that Germany and the Netherlands have to work closely together in the management group. There is better understanding and awareness of belonging together as one World Heritage. This cooperation is very good for capacity building. But we don't yet have an example of good practice for other sites.

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

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?

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

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

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

15.3. Timing and resources

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

Governmental institutions responsible for cultural and natural heritage

Site Manager/Coordinator World Heritage property staff

Staff from other World Heritage properties

Non-Governmental Organizations

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

Gender balance has been **given limited consideration** and implementation is in 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

120 / 30 / 120 /

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

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

15.4. Format and content of the Periodic Report

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

Not all required information was accessible.

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

		Very Difficult	Difficult	Easy	Very easy
15.4.2.1	Ease of use of questionnaire		✗		
15.4.2.2	Clarity of questions		✗		

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

Questionnaire could be better tailored for transnational serial World Heritage Site, not only because they exist of many different sites, but also because it has multiple layers of management.

15.5. Training and Guidance

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

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

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

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

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

Yes

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

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

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

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

Reason for update: Please delete the last 3 words of the brief synthesis ('of the empire')

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

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

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

For the Lower German Limes, the Periodic Reporting Exercise comes very soon after the inscription on the World Heritage List in 2021. We are still in the early stages of implementation of the Management Plan 2021-2027, the start of which could not be very energetic due to the corona years. On the one hand, this makes it easy to fill in the questionnaire, because the situation has not changed much since the inscription. But that also means that the learning experience is limited.

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