STATEMENT OF SIGNIFICANCE

ANTONINE WALL – WATLING LODGE & WATLING LODGE WEST

We continually revise our Statements of Significance, so they may vary in length, format and level of detail. While every effort is made to keep them up to date, they should not be considered a definitive or final assessment of our properties.

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HISTORIC ENVIRONMENT SCOTLAND
STATEMENT OF SIGNIFICANCE

ANTONINE WALL –
WATLING LODGE AND WATLING LODGE WEST

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Part A: Frontiers of the Roman Empire World Heritage Site

Introduction

In 2008 the Antonine Wall was inscribed by UNESCO to become part of the Frontiers of the Roman Empire World Heritage Site (FREWHS). This already included Hadrian’s Wall (inscribed in 1987) and the German Limes (inscribed in 2005). To be inscribed on the world heritage list, a site must meet at least one of the criteria for the assessment of Outstanding Universal Value (OUV) as defined by UNESCO¹. A fuller exposition of the OUV of the site is given in Appendix 3 below or can be found on the UNESCO website.

This brief introduction sets the Antonine Wall in the context of the FREWHS and outlines the justification for inscription of the Antonine Wall on the World Heritage List.

The Historic Environment Scotland (HES) Statement of Significance for Watling Lodge and Watling Lodge West which follows at Part B, recognises these individual sites as integral parts of the wider Antonine Wall World Heritage Site. The Assessment however focusses in on Watling Lodge and Watling Lodge West themselves, for a closer examination of their individual history, development and range of heritage values.

It is also acknowledged that HES directly manages only a small proportion of the whole Antonine Wall WHS. This assessment is intended to inform understanding and management of those sites (or ‘Properties in Care’) for which HES has direct management responsibility: Bantaskin (PIC167); Bar Hill (PIC168); Bearsden Bath-house (PIC169); Castlecary Fort (PIC170); Croy Hill (PIC171); Dullatur (PIC172); Garnhall Farm (PIC173); Kinneil House (PIC152); Kirkintilloch (PIC174); Rough Castle (PIC175); Seabegs Wood (PIC176); Tollpark (PIC177); Watling Lodge (PIC178) and Watling Lodge West (PIC179).

The Frontiers of the Roman Empire WHS (FREWHS)

The Antonine Wall is one of only three artificial frontiers constructed by the Roman army in Europe. Collectively, they form a serial trans-national World Heritage Site, the FREWHS; the OUV of which lies in the survival of the 2nd-century Roman frontier system across Europe, North Africa and the Middle East. This reflects the development and breadth of Roman military architecture and power. Together, the inscribed remains form an extensive relict cultural landscape which displays the unifying character of the Roman Empire, through its common culture, but also its distinctive responses to local geography and political and economic conditions. Each component part is a substantial reflection of the way resources were deployed in a particular part of the Empire.

¹ For more information on Criteria and the Inscription process, see https://en.unesco.org/
The Antonine Wall within the FREWHS

For a short period in the mid second century the Antonine Wall formed the north-western frontier of the Roman Empire. The Antonine Wall was built under the Emperor Antoninus Pius in the 140s AD as an attempt to conquer parts of northern Britain, and extends for some 60km across central Scotland from the River Forth to the River Clyde. Through its military and civil constructions, it demonstrates cultural interchange through the extension of Roman technical skills, organisation and knowledge to the furthest reaches of the Empire. It embodies a high degree of expertise in the technical mastery of stone and turf defensive constructions. As it was in use for only a single generation, it provides a dated horizon at a particular point in time and offers a specific insight into how the frontier was designed and built. Together, the remains of the frontiers, consisting of vestiges of walls, ditches, earthworks, fortlets, forts, fortresses, watchtowers, roads and civilian settlements, form a social and historical unit that illustrates an ambitious and coherent system of defensive constructions perfected by engineers over the course of several generations.  

The Antonine Wall, as a Roman frontier, is a physical and visual testimony to the former extent of one of the world’s greatest states, the Roman Empire. It formed part of a frontier system which surrounded and protected that Empire. The Antonine Wall has a particular value in being the most highly developed frontier of the Roman Empire: it stands at the end of a long period of development over the previous hundred years and therefore facilitates a better understanding of the development of Roman frontiers in Britain and beyond. It is one of only three artificial barriers along the 5000 km European, North African and Middle Eastern frontiers of the Roman Empire. These systems are unique to Britain and Germany, though more fragmentary linear barriers are known in Algeria and Romania. Built following an invasion of what is now Scotland during AD 139/142 and occupied for possibly only 20 years, it served as the most northerly frontier of the Roman Empire at the high point of its power and influence in the ancient world. It has many unique features which demonstrate the versatility of the Roman army, while its short life is of considerable value in offering a snap-shot of a Roman frontier in its most advanced state. As the most northerly frontier, it stands as an example of Rome’s stated intention to rule the world.

The Antonine Wall has a distinctive value as a unique physical testimony to the nature of the constitution of the Roman Empire and the requirement of the emperor for military prestige. The abandonment of Hadrian’s Wall and the construction of a new northern frontier at the behest of a new emperor reflects the realities of power politics in Rome during Edward Gibbon’s “Golden Age”. It also stands as a physical manifestation of the statements of writers flourishing during the reign of Antoninus Pius about the measures which Rome took to protect its inhabitants, even those living in its most distant province.

2 https://whc.unesco.org/en/list/430
The Antonine Wall is of significant value in terms of its rarity, scale, preservation, and historical and archaeological value; the engineering and planning skills of its builders; the understanding of Roman frontier policy and management, and its influence on the landscape and history of local peoples during the Roman period and beyond; and also in terms of its contribution to the economic, educational and social values of today’s society.\(^3\)

The Antonine Wall sits within the broad framework of Roman frontiers, but it also contains many unique or unusual elements. These mainly relate to the structure itself:

- The Antonine Wall was built within 20 years of Hadrian’s Wall, and, in its general framework, bears some features in common, but in many aspects it is clearly a development of Hadrian’s Wall and is different in many ways, reflecting a more complicated frontier complex;
- The Antonine Wall is the only frontier to have had a turf rampart erected on a stone base. Hadrian’s Wall was of stone in the eastern part and turf in the west, but the turf wall was built directly on the ground - though short stretches of cobble foundations have been found at two locations - and was wider than the Antonine Wall. The Outer Limes in Germany was a timber palisade in its primary phase. The purpose of the stone base may have been to add stability to the superstructure, or to aid drainage through the barrier;
- The forts are more densely spaced on the Antonine Wall than on any other frontier of the Roman empire;
- Unlike on Hadrian’s Wall the forts are diverse in their sizes, defences and internal arrangements;
- Unusually, many forts have annexes attached to them. Annexes have been recorded at many forts but not at those on linear barriers, but no such structures were constructed on Hadrian’s Wall and they do not exist in the same form on the German Limes;
- Six expansions, probably used for signalling, are known: these structures are unique to the Antonine Wall;
- The three small enclosures discovered in one section of the Antonine Wall are unique on Roman frontiers;
- The short life of the Antonine Wall, coupled with the location and morphology of the known camps, enables most to be definitively identified as temporary camps used by the soldiers building the frontier. As a result, it is possible to offer suggestions on the organisation of labour, which is not possible on other frontiers. Many temporary camps are known along the line of Hadrian’s Wall (few are recorded in Germany), but the long history of that frontier renders it difficult to disentangle temporary camps from marching camps and practice camps;
- The Antonine Wall was the shortest occupied linear frontier in the Roman Empire and is thus a unique archaeological resource.

\(^3\) Historic Scotland 2007: 75
The temporary camps discovered on the Antonine Wall are particularly important in relation to the final unique element, the twenty Distance Slabs which are known either whole or in part from the Antonine Wall. These record the lengths of Wall built by each of the three legions of Britain, the Second, Sixth and Twentieth.

However, the Distance Slabs are not simple records, but highly decorated and sculptured stones which depict events during the military campaigning and form one of the most important collections of Roman military sculpture from any frontier of the Roman Empire. Together with the evidence of the temporary camps, they allow important conclusions to be reached about the construction of the Antonine Wall which are unique to this frontier. They are also an important element in any consideration of the reason for the construction of the Antonine Wall, which is generally believed to relate to the personal position of the new Emperor Antoninus Pius. On one interpretation, they glorify the success of Roman arms on behalf of the emperor, whose name appears on all the inscriptions, over the enemies of Rome and emphasise the support of the gods, and in particular the goddess Victory, for the Romans and their emperor. However, as the known Distance Slabs have been removed from the monument and placed in museums for their protection, they are not included in the World Heritage Site.

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4 See too forthcoming work by Dr Louisa Campbell on the application of pigment on Distance Slabs.
5 Historic Scotland 2007: 76-77
Part B: Statement of Significance

1 Summary

1.1 Introduction
Watling Lodge and Watling Lodge West, sometimes referred to as “Tamfourhill” due to their location along Tamfourhill Road, are part of the Antonine Wall, and represent two good sections of Roman Ditch and Outer Mound separated by the modern villa of Watling Lodge. The properties feature the most impressive sections of Antonine Wall Ditch and, importantly, straddle the location of a Roman fortlet and medieval motte that reused the Antonine Wall’s Outer Mound. It is from this point that a significant change in the Wall’s Rampart has been identified, with different building materials being used to the east or west. Although located within an urban context, the property also features a mature woodland of pleasant beech trees.

1.2 Statement of significance

As a part of the Antonine Wall, this property inherits the following aspects of significance:

- It is part of a well-preserved Roman frontier.
• Of all of imperial Rome’s linear frontiers, this is the final and most developed example, in terms of strategic defense. Its engineers improved on Hadrian’s Wall (built a generation before), to incorporate new features into its design, such as the use of fortified annexes which are unique in Roman linear frontier systems. It allows the development of Roman frontiers to be investigated through comparison with Hadrian’s Wall and the German Limes thereby allowing us to understand more clearly the arrangements the Romans made to protect their Empire, as well as the relationship between broad principles and distinct local requirements. The Wall has further importance as a dating tool. Artefacts, pottery and ecofacts found in the structures along the frontier had a limited period of use, and are invaluable for helping date other forts and civil settlements.

• At the time of its creation, it represented the biggest ever engineering project to be undertaken within central Scotland, and a major human-engineered topographical transformation of the landscape.

• The Antonine Wall is the only frontier to have had a turf rampart erected on a stone base; this may have been to add stability to the superstructure, or to aid drainage through the barrier.

• Following the Roman military abandonment of the frontier, it remained a highly visible landscape feature with continued significance in subsequent periods. It retained significance in a number of ways, e.g. as a defensive line, with its stones and Distance Slabs reused in the construction of neighbouring dykes and properties, and in the name “Graham’s Dyke,” by which it came to be known; a name still reflected within modern street names in the eastern half of the Wall’s line.

• Within the FREWHS, the Distance Slabs are unique to Scotland. Three legions built the Wall, and erected these 19 sculpted and inscribed sandstone blocks to record the completion of their individual stretches.

• The Antonine Wall is a most important repository of environmental evidence, both through its materials of construction and because it provides a dated horizon stretching right across Scotland. Through environmental evidence from the Antonine Wall, it has been possible to reconstruct the vegetational history of Central Scotland. The wall gains further international significance through the context in which it is managed as a World Heritage Site. The archaeological remains, the line and the setting of the Antonine Wall and its buffer zone are protected by UK Acts of Parliament, supplemented by National Planning Policy Guidelines, which together form a coherent framework for the protection of the whole of the World Heritage Site and its buffer zone.

More particularly, Watling Lodge and Watling Lodge West are significant for the following reasons:

• They represent the best surviving stretch of Ditch along the whole length of the Antonine Wall.

• They mark the location of a significant change in the superstructure of the Antonine Wall’s Rampart, from (eastward) earth/clay revetted by clay or turf cheeks, to (westward) stacked turves.
They mark the location of a medieval reuse of the Antonine Wall in the form of a medieval motte that was built on top of the Outer Mound.

They feature a rare stretch of mature woodland surrounded by an urban environment.

They flank the site of a fortlet that guarded the road north to Camelon Fort.

2 Assessment of values

2.1 Background

The Antonine Wall is the remains of the Roman Empire’s northwest frontier built in the mid-second century. It was around 41 miles (66km) long and stretched across central Scotland from the Firth of Forth near Bo’ness to Old Kilpatrick on the Clyde. The Wall was constructed, in functional operation, and then abandoned all within a period of about twenty years between the early AD 140s–160s. A full overview and description of the Antonine Wall is given at Appendix 46.

Though termed a “Wall”, the main structure was of Rampart and Ditch. The Rampart was constructed mostly out of layers of turf, erected on a stone base, and reached a height of 3m. To the north of the Wall, the defences also included a huge Ditch, nearly 5m deep in places, and an Outer Mound constructed from the earth thrown out of the ditch. Seventeen forts plus additional ‘fortlets’ accommodated the men stationed along the Wall during its brief occupation (the number could be as low as 4,500-5,000 men)⁷.

The Military Way, a service road built to the south of the Wall, was another important element, enabling troops to move swiftly along its course, bearing supplies, commands and news. At Watling Lodge, the fortlet controlled north / south access from the Military Way to the fort at Camelon, to the north of the Wall. The Wall was entirely built by members of the three Roman legions stationed in Scotland. During construction, the soldiers lived in leather tents or wooden huts situated inside temporary camps which were enclosed by light defences. These temporary camps were an integral part of the design of the Antonine Wall, and were carefully positioned along the frontier during its creation, to ensure maximum efficiency.

In the late 150s / early 160s AD the Antonine Wall was abandoned and the guard withdrawn. The rampart was not demolished, nor was the ditch filled in, but fort buildings were burnt or dismantled. The Romans took valuable and portable items away with them, but heavy or worthless objects were discarded, in some cases down the well of the fort – to the great benefit of future archaeologists.

⁶ Note: The key linear features include the Rampart, Ditch, Berm, Outer Mound, and Military Way; these features are all presented in this document with an initial capital letter in order to avoid confusion between the main frontier’s Rampart and Ditch and those ramparts and ditches that surround the Wall’s installations.

⁷ Keppie 2009
Throughout the post-Roman and medieval periods the Antonine Wall and its immediate vicinity saw continued occupation and the construction of new settlements and structures, including churches, villages, and several castles, including mottes. The wall became known as ‘Grymisdyke’ and its Roman heritage was forgotten. Throughout the post-Roman and medieval periods the Antonine Wall and its immediate vicinity saw continued occupation and the construction of new settlements and structures, including churches, villages, and several mottes and castles.

From the 18th century there was growing interest in and exploration of the Wall by antiquarians, and certain sites became celebrated. Industrialisation and development in the central belt also saw destruction of some parts of the wall by agricultural and industrial development, and the building of roads and canals.

HES manages fourteen sites along the Wall but the majority of the Wall is not in State care. Watling Lodge (PIC178) was taken into State care in 1967, while Watling Lodge West (PIC179) was taken into State care in 1998; both sites having been first Scheduled in 1964. In 2008 the Antonine Wall was inscribed as a World Heritage Site and a management plan for the WHS is available at: www.antoninewall.org/world-heritage/managing-antonine-wall

Following inscription in 2008, a Management Plan Steering Group was established to develop and deliver Management Plans and key strategic work along the Antonine Wall. This comprises Historic Environment Scotland (HES) and the five local authorities along its length (West Dunbartonshire Council, Glasgow City Council, East Dunbartonshire Council, North Lanarkshire Council and Falkirk Council). A World Heritage Site Co-ordinator is employed by HES to work on behalf of this partnership and deliver the UNESCO WHS requirements. The Partnership invests in capital and revenue projects to protect and promote the Antonine Wall; since inscription this has included (amongst other projects) key branding work, a new website, a digital app platform, new road and onsite signage, economic and visitor studies, investment in visitor counters and a significant Heritage Lottery Fund (HLF) project focused on regeneration and community engagement. Four new staff members were recruited for a three year period to manage the HLF project and key to their work was a co-design and co-curation approach with local communities. Key groups being targeted include communities in the most deprived areas of the Central Belt, asylum seekers (including those from areas associated with the original Roman troops stationed on the Antonine Wall), young people both in and out of schools, and individuals seeking skills development opportunities.

The Antonine Wall has benefited from the development of the John Muir Way, a coast to coast walking route that crosses several parts of the Antonine Wall. This has helped to find alternative routes for cyclists and horse-riders, where some parts of the site had been vulnerable to damage from such use.
Internationally, as part of the Frontiers of the Roman Empire World Heritage Site, staff and communities connected to the Antonine Wall liaise and network with counterparts along Hadrian’s Wall and the German Limes. This has included: joint European funding bids; networking trips; hosting / attending international meetings and delegations; and conferences and seminars. There has also been successful engagement with wider European Roman frontier networks.

2.2 Evidential values

Watling Lodge and Watling Lodge West provide evidence for the Antonine Wall's Rampart, Ditch and Outer Mound, as well as a significant change in the Rampart’s superstructure. Between these two sections (and not in HES care) lies the modern Watling Lodge, an 1890s Arts and Crafts villa, which was built on top of a medieval motte that utilised the Roman frontier’s Outer Mound and Ditch, while the remains of a Roman fortlet are also located within the area of its south garden.

The Ditch, at both PIC178 and PIC179, is the best preserved and most impressive along the entire Antonine Wall, offering strong visual evidence for the most recognisable surviving feature of the former Roman frontier. At this point the Ditch measures about 12m in width and about 4.5m in depth,
probably very close to its original dimensions\(^8\). The Outer Mound is particularly visible at PIC178 east of Watling Lodge villa but only a small portion is visible at PIC179 to the west, where it begins to be covered over by Tamfourhill Road, which bisects the frontier.

In between these two properties are the grounds of Watling Lodge villa, which has in the past yielded further significant evidence bearing on both the Roman and medieval periods. For the Roman period, the evidence is a Roman fortlet that has been found to guard a key road heading north of the frontier, probably at least to the outpost fort at Camelon. This is known from notes recorded by Mungo Buchanan in the 1890s\(^9\), and also from scientific excavation in the early 1970s\(^10\). Very little of the fortlet has been excavated, however, and there were no trenches within its interior. The fortlet remains are heavily covered by trees, and may provide future evidence, but the more recent excavations were unable to identify the fortlet's ramparts.

The 1894 destruction of the medieval motte upon which Watling Lodge villa is built has also limited the available evidence for the later medieval reuse of the Wall. Limited antiquarian mention and summaries from Mungo Buchanan's notes\(^11\) remain our primary surviving evidence, but it may be possible that fragmentary remains survive beneath the current structure of Watling Lodge villa.

The evidence for a change in the Wall's Rampart superstructure has been identified via excavations along its line, and was first recognised by Macdonald\(^12\), who excavated several sections across the Rampart and pinpointed this change to either side of the fortlet at Watling Lodge.

A short distance to the south, in an open field between the Union Canal and Tamfourhill Wood, is the site of a Roman temporary camp, which is sometimes visible in aerial photographs, but which cannot be seen on the ground today.

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\(^8\) Breeze 2006: 205; Robertson 2015: 66
\(^9\) Macdonald 1911: 248-250; 1934: 344-347
\(^10\) Breeze 1974
\(^11\) Christison \textit{et al} 1901: 336-337; Macdonald 1934: 345-348
\(^12\) 1925: 284-285
showing the course of the Roman wall called grime’s Dyke...together with plans of those stations belonging to the wall'.

2.3 Historical values

Watling Lodge and Watling Lodge West tell several potential stories, most visibly that of the Antonine Wall’s Ditch, through its impressive survival to almost original dimensions. Other important narratives rely on adjacent and nearby associated sites. These include the guarding of the Roman road (called “Watling Street”) through the frontier at the fortlet located on the grounds of Watling Lodge, and the reuse of the Wall’s Outer Mound and Ditch there for the location of a medieval motte, as well as the pivotal position of this site in terms of a change in the material used to construct the Antonine Wall's Rampart.

The Watling Lodge fortlet, located in between the boundaries of PIC178 and PIC179 and outside of HES care, was the earliest of this class of installation to be discovered, but it was not recognised as such for another 80 years. The initial discovery was in 1894 or 1895, during the laying out of a garden for the modern Watling Lodge villa, and was observed by the Falkirk antiquary Mungo Buchanan, but there was no systematic excavation. Thankfully, though, Buchanan was able to take notes and make several sketches, and the available details were later summarised from Buchanan’s records by Sir George Macdonald, who refers to the fortlet as a “guard-house”. The special relationship between this installation and the Roman road (i.e. Watling Street) that passed through the Roman frontier at this point was immediately recognised, and this “guard-house” was thought to be an isolated and unique feature. However, its significance as part of a broader scheme of fortlet installations was realised with the 1947 discovery of a fortlet at Duntocher and later identification of further fortlets in aerial photographs. Excavations at the fortlet in the early 1970s focused on its defences, confirming that the 1890s garden construction had severely damaged the Roman structure, but also revealing its overall dimensions.

Detailed knowledge about the medieval motte is, unfortunately, very limited. It is first recorded by an “anonymous traveller” of 1697, who called it the “Maiden Castle”. Gordon appears to mention the structure as a Roman “watch tower,” but gives no indication of any knowledge about its medieval origins or name. Strangely, Horsley appears to be very confused here: he never mentions the Maiden Castle nor describes the motte or fortlet, but places Camelon at this property. The often-overlooked antiquary William Maitland is the next to clearly mention this feature, which he describes as “the

13 Christison et al 1901: 337
14 Macdonald 1911: 248-250; 1934: 344-347
15 Robertson 1957
16 Steer 1960: 86
17 Breeze 1974
18 Keppie 2006
19 Gordon 1726: 59
20 Horsley 1773: 172, 176
Madun-castle, a fort on the wall to guard the gateway” in what seems to be a reference to the medieval motte rather than the Roman fortlet, as “the vestigia whereof still appear on the outward [i.e. northern] side of the said gateway”\textsuperscript{21}. Evidence of post-holes and medieval pottery in excavations to the south of the Roman fortlet may relate to this medieval period occupation\textsuperscript{22}.

2.4 Architectural and artistic value

These properties, especially Watling Lodge PIC178, offer the best preserved section of the Antonine Wall Ditch, 12m wide and 4.5m deep, which is very close to its original condition\textsuperscript{23}. Nowhere else on the line of the Wall is the Ditch so well preserved, and it is at this property where the scale of Roman military earthwork engineering is on its most effective display.

Of particular architectural significance is the Antonine Wall’s Rampart superstructure, which changes between these properties. Although the Rampart is primarily constructed of stacked turves atop a kerbed stone base, Sir George Macdonald effectively demonstrated that east of Watling Lodge the Rampart is instead constructed of earth and/or clay\textsuperscript{24}. This means that PIC178 and areas of the Wall to the east of Watling Lodge villa feature a clay/earth Rampart, while PIC179 and areas of the Wall to the west of the villa feature the more typical turf Rampart. Various arguments have been given for this contrast, including a suggested scarcity of turf in the Wall’s eastern sector\textsuperscript{25}, a change in plan during the construction of the Wall, and the possibility that the Wall originally started at Watling Lodge PIC178 and was only extended eastward at a later date\textsuperscript{26}. This reason for this difference remains an unresolved issue, but further scientific analysis of Rampart material may help to clarify the question.

Although not technically located within these properties, both the Roman period fortlet and c. twelfth-century motte – located on the grounds of Watling Lodge villa between PIC178 and PIC179 – are crucial associations. Limited excavations carried out between 1972-74 have revealed that the fortlet measured about 18.5m by 15.5m internally, with turf ramparts set on top of a stone base, confirming that Buchanan’s plan published by Macdonald is “totally untrustworthy”\textsuperscript{27}. The fortlet was of one build with the Antonine Wall, and used the Wall’s Rampart and Ditch as its northern defences. Around the fortlet’s east, west, and south sides was a single ditch, measuring about 2.8m wide and 1m deep. There were gateways on the north and south, with a metalled road running through the fortlet, and heading north through a gap in the Antonine Wall Ditch toward the outpost fort at Camelon. Excavations focused on the lines of the fortlet’s defences, and only a very small portion of

\textsuperscript{21} Maitland 1757: 173
\textsuperscript{22} Keppie et al 1995: 622-626
\textsuperscript{23} Robertson 2015: 66
\textsuperscript{24} Macdonald 1925: 284-285
\textsuperscript{25} Macdonald 1934: 87
\textsuperscript{26} Bailey 1995: 593–595
\textsuperscript{27} Breeze 1974: 171
one trench extended into the fortlet’s interior, just within the south-west corner, where a probable hearth with cooking pot fragments was located. Further excavation to the south of the fortlet revealed traces of a road with two distinct phases of road metalling, a series of post-holes, and Roman and medieval pottery fragments. Unlike the Wall’s other known fortlets, where the ditches appear to have been deliberately back-filled during the Roman period, those at Watling Lodge (PIC178 and PIC179) appear to have been well-maintained. This, along with the noted gap through the Antonine Wall Ditch – the only definitive instance for a causeway over the Ditch at an Antonine Wall fortlet – suggests that the fortlet was probably maintained throughout the Antonine period in order to guard the road north, while others appear to have undergone abandonment or changes in function.

Almost nothing can be said about the architecture of the medieval motte, except that it was located upon – and took advantage of – the Roman period Outer Mound, and utilised the Antonine Wall Ditch for its own southern defence. Sir George Macdonald, drawing upon information from Mungo Buchanan – who had observed the motte’s destruction – indicates that the motte was raised significantly higher than the Outer Mound and that around 2m of its height had been completely removed in order to make a level platform for the Watling Lodge villa. Alexander Gordon may have earlier described this feature as a 20m x 20m “square watch tower”, but Buchanan’s description indicates that it projected north from the normal edge of the Outer Mound to create a semi-circular shape without protruding south into the Antonine Wall Ditch.

2.5 Landscape and aesthetic values
The Antonine Wall Ditch is incredibly impressive from its bottom, especially in PIC178 to the east of Watling Lodge villa, although the presence of mature

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28 Breeze 1974: 169
29 Keppie et al 1995: 622-626
30 Macdonald 1934: 345-347
31 Gordon 1726: 59
32 Macdonald 1934: 345-346
trees within the Ditch and its banks may be somewhat distracting and provide a false impression of what the Roman frontier would have looked like while the Antonine Wall was in functional operation. On the other hand, the beech trees create a particularly pleasant environment and refuge from the surrounding urban space, and further help to block out the noise from traffic on nearby Tamfourhill Road. From the top of the Outer Mound, the Kilsyth Hills can be seen to the north of the property, with good views overlooking Camelon north of the Forth and Clyde Canal.

2.6 Natural heritage values

Although these properties are located within an urban context with residential housing to the east, south and west, and industrial space across Tamfourhill Road to the north, they have preserved a rare stretch of mature woodland. At the time of writing, the sites had no noted special natural heritage values or designations. However, one of the most important aspects of Watling Lodge and Watling Lodge West, along with other sections of the Antonine Wall, is their capacity to act as wildlife and biodiversity corridors for the surrounding areas. Linear features of relatively undisturbed countryside are of great importance; here the sites are a mixture of semi-natural broadleaf woodland and improved neutral grassland habitats.

Geology

The Antonine Wall was created making best advantage of the local geology and topography. Here the bedrock belongs to the Scottish Lower Coal Measures Formation, comprising sandstone, siltstone and mudstone, with uppermost layers of seatclay, seatearth and coal. Superficial deposits are comprised of Devensian till.

2.7 Contemporary/Use values

The Antonine Wall is well used by communities along its length as a relatively rare green space amid the urbanisation of Central Scotland. Walkers, trail runners, healthy living groups, and youth groups have all been identified as key ‘greenspace’ users during consultation events. Since its World Heritage Inscription in 2008, growing awareness of its status has emerged, and a more diverse audience developed. ‘World Heritage’ tourism has been noted by local tourism providers and a growing schools audience has been observed through social media.

Wider opportunities for community development, regeneration, and local / national / international networking remain significant. A community centre lies adjacent to the Watling Lodge sites and in 2018 the community raised funds to replace the outdated play equipment with a new Roman themed playpark for local children. Barnardos manage a centre within Watling Lodge villa, and have proactively opened up access through their garden, reuniting the two

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33 February 2019
34 British Geological Survey, 2019
sections of ditch / bank, and enabling the public to walk continuously along the line, passing the fortlet.

Visitor numbers to the HES managed Antonine Wall sites are difficult to quantify as the sites are freely accessible and not staffed. Many attract substantial numbers of walkers as well as those setting out to visit the Roman site. Automatic counters have been installed at some sites which gives an idea of footfall. At Rough Castle, which is very near the Falkirk Wheel, over 100,000 were counted, while at Bar Hill 34,000 were counted over the course of a year (2018).

3 Major gaps in understanding

The primary gaps in our understanding of this property are:

- Why does the superstructure of the Antonine Wall’s Rampart differ to either side of Watling Lodge?
- Why was this location chosen for the road north to Camelon fort?
- Where is the Military Way in this location?
- Were there defensive pits on the Berm in this location?
- What are the details of the medieval reuse of the Wall here for the “Maiden Castle” motte?
- Was there a larger settlement associated with the medieval motte and, if so, where was this located?
- Research is needed to establish a better understanding of visitor number and visitor profile across Antonine Wall sites. This would help in realizing the potential of sites, especially those with high-footfall, to engage with a wide variety of community and interest groups who may represent new audiences for HES.
- There is good potential for the recovery of environmental samples from the fills of the Ditch and from ancient ground surfaces sealed beneath the rampart that can improve our knowledge of the local landscape when the Antonine wall was built and in use.

The Antonine Wall Research Agenda, which takes a holistic approach to the Wall and draws out key themes and research questions, is currently being developed. As this Agenda develops there will be a better understanding of the research potential and priorities for the HES managed sites. This section will therefore be updated in due course accordingly. For further information on the Research Agenda see: www.antoninewall.org

4 Associated Properties

In addition to these properties, there are currently 12 further portions of the Antonine Wall in the care of Historic Environment Scotland:

Bantaskin (PIC167); Bar Hill (PIC168); Bearsden Bath-house (PIC169); Castlecary Fort (PIC170); Croy Hill (PIC171); Dullatur (PIC172); Garnhall
Farm (PIC173); Kinneil House (PIC152); Kirkintilloch (PIC174); Rough Castle (PIC175); Seabegs Wood (PIC176); Tollpark (PIC177).

5 Keywords

Roman frontier; German *limes*; Antonine Wall; Hadrian's Wall; World Heritage Site; fortlet; Military Way; medieval; motte

Bibliography


**Other Resources**

3D digital models of various artefacts found at Antonine Wall sites, can be freely viewed on Historic Environment Scotland’s Sketchfab page35. This includes a range of objects from the collections of the Hunterian Museum, Glasgow. An interactive Antonine Wall mobile app can also be downloaded to aid site visits and interpretation36.

35 https://sketchfab.com/HistoricEnvironmentScotland/collections/antonine-wall
36 Available at: http://www.antoninewall.org/visiting-the-wall/download-the-app
Appendices

Appendix 1: Timeline

c. AD 139/142 Construction of the Antonine Wall is initiated by the Roman Emperor Antoninus Pius (AD 138-161), after a successful campaign in AD 139/142 by Lollius Urbicus, Governor of Britain.

c. AD 160 The Antonine Wall system is abandoned by the Roman military, and the northern frontier returns to the line of Hadrian’s Wall.

12th century A medieval motte is constructed over the Outer Mound, using the Antonine Wall Ditch as its own southern defence.

1894 The “Maiden Castle” medieval motte is destroyed and built over by the modern “Watling Lodge” Arts and Crafts villa, owned by Mr. Fairlie.

1964 The properties are first Scheduled.

1967 Watling Lodge (PIC178) is taken into State care (Ownership).

1998 Watling Lodge West (PIC179) is taken into State care (Ownership).

2008 The Antonine Wall is inscribed as part of the “Frontiers of the Roman Empire” UNESCO World Heritage Site, joining Hadrian’s Wall and the Upper German-Raetian Limes.

Appendix 2: Summary of Archaeological Investigations

1894-95 Observation by Falkirk antiquary Mungo Buchanan of the destruction of the medieval “Maiden Castle” motte and Roman fortlet during the construction of the modern Watling Lodge villa and garden.

1916 The Rampart east of Watling Lodge (at PIC178) was sectioned by Sir George Macdonald, revealing a clay superstructure, south kerb stones, and a narrow (no more than 4.5m wide) Berm.

1957 Line of Wall and Military Way surveyed by Ordnance Survey.

1961 Trenching by I. Maclvor to the east of Watling Lodge villa (at PIC178) confirms the line of the Antonine Wall Rampart, in good preservation.

1972 Four small trenches were excavated across the fortlet’s west and south defences by David Breeze, revealing a single ditch, no
traces of the Rampart, but a probable hearth within the fortlet’s southwest corner.

1973
Four trenches were excavated in the garden to the east of the fortlet by David Breeze, over the location of eastern defences as drawn on Buchanan’s plan published by Macdonald. These failed to identify the fortlet’s expected eastern defences and raised questions about the veracity of the previously published plan.

1974
Further excavation in the Watling Lodge garden by David Breeze successfully identified the fortlet’s eastern ditch.

1976
A 45m length of the Wall was excavated east of Watling Lodge (at PIC178) prior to development of Westburn Avenue, revealing the Rampart base (4.67m wide), the Berm (8.25m wide), Ditch (12m wide), and Outer Mound (spread out to 11m wide).

1980
Line of Wall and Military Way surveyed by Ordnance Survey.

1986
Three small trenches were excavated by Geoff Bailey across the fortlet’s south defences and the road leading into the fortlet’s south gate reveal two distinct phases of road metalling, a series of post-holes, and pottery of both Roman (Antonine) and late medieval dates.

2014
A small excavation was carried out by Falkirk Community Trust Tamfourhill Community Centre (involving local children) on the line of the Roman road that issues from the south gate of the fortlet. Plough marks and machine digger scoops were identified but no features of Roman date were discovered.

2010
Aerial LiDAR captured at 0.5-m resolution covering the World Heritage Site, as part of the “Hidden Landscape of a Roman Frontier” collaborative research project run and jointly funded by Canterbury Christ Church University (CCCU) and Historic Environment Scotland (HES)

Appendix 3: Outstanding Universal Value

The Justification for Inscription of the Antonine Wall World Heritage Site against OUV criteria\textsuperscript{37}.

Criterion (ii): exhibit an important interchange of human values, over a span of time or within a cultural area of the world, on developments in architecture or technology, monumental arts, town-planning or landscape design. The extant remains of the fortified German \textit{Limes}, Hadrian’s Wall and Antonine Wall constitute significant elements of the Roman Frontiers present

\textsuperscript{37} A fuller exposition of the OUV of the site can be found on the UNESCO website: https://whc.unesco.org/
in Europe. With their forts, fortlets, walls, ditches, linked infrastructure and civilian architecture they exhibit an important interchange of human and cultural values at the apogee 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. They reflect the imposition of a complex frontier system on the existing societies of the north-western part of the Roman Empire, introducing for the first time military installations and related civilian settlements, linked through an extensive supporting network. The frontiers did not constitute an impregnable barrier, but controlled and allowed the movement of peoples: not only the military units, but also civilians and merchants. Hence, they triggered the exchange of cultural values through movement of soldiers and civilians from different nations. This entailed profound changes and developments in the respective regions in terms of settlement patterns, architecture and landscape design and spatial organization. The frontiers still today form a conspicuous part of the landscape.

Criterion (iii): bear a unique or at least exceptional testimony to a cultural tradition or to a civilization which is living or which has disappeared.
As parts of the Roman Empire’s general system of defence the German Limes, Hadrian’s Wall and the Antonine Wall have an extraordinarily high cultural value. They bear an exceptional testimony to the maximum extension of the power of the Roman Empire through the consolidation of its north-western frontiers and thus constitute a physical manifestation of Roman imperial policy. They illustrate the Roman Empire’s ambition to dominate the world in order to establish its law and way of life there in a long-term perspective. They witness Roman colonization in the respective territories, the spread of Roman culture and its different traditions – military, engineering, architecture, religion management and politics – and the large number of human settlements associated with the defences which contribute to an understanding of how soldiers and their families lived in this part of the Roman Empire.

Criterion (iv): be an outstanding example of a type of building or architectural or technological ensemble or landscape which illustrates (a) significant stage(s) in human history.
The fortified German Limes, Hadrian’s Wall and the Antonine Wall are outstanding examples of Roman military architecture and building techniques and of their technological development, perfected by engineers over the course of several generations. They demonstrate the variety and sophistication of the Romans’ responses to the specific topography and climate as well as to the political, military and social circumstances in the north-western part of the Empire which spread all around Europe and thereby shaped much of the subsequent development in this part of the world.

Integrity
The inscribed components convey the extraordinary complexity and coherence of the Frontiers of the Roman Empire in northwestern Europe. Although some parts have been affected by land use change and natural
processes, the integrity of the property is demonstrated through its visible remains and buried archaeological features. Their state of survival has been researched in many areas. Several areas of the frontier have been built over, but where significant archaeological remains have been proven to exist they have been included in the property.

Currently, about one-third of the linear barrier is visible; about one third lies in open countryside but is not visible above ground, though its existence has frequently been tested through excavation; about one-third lies in urban areas, though again its survival has been tested through excavation in many areas. About 2 km of the total length of the Antonine Wall have been totally destroyed, though to this sum should be added minor cuttings for roads and railways.

**Authenticity**
The inscribed component parts have a high level of authenticity, with each having been verified through extensive study and research. The materials and substance of underground archaeological remains are well-preserved, as are upstanding and visible remains. The form and design of each representative part of the frontier and its associated structures are clear and comprehensible. Later development overlying parts of the frontier are treated as vertical buffer zones.

The remains of the Antonine Wall exist in a generally good condition and visible sections sometimes have significant heights and depths. Conservation and consolidation measures that have been carried out in the interest of better understanding and protection fit in with the setting of the property and do not diminish its authenticity.

**Protection and management requirements**
At the time of inscription on the World Heritage List, the World Heritage Committee adopts a Statement of Outstanding Universal Value (SOUV) which will be the key reference for the future effective protection and management of the property. The FREWHS as a whole is collectively managed. At the international level, the States Parties have established an integrated management system consisting of three closely cooperating and interacting bodies: the Inter-Governmental Committee (IGC) to oversee and coordinate the overall management at an international level; the Management group which assembles those directly responsible for the site management of the property and provides the primary mechanism for sharing best practice; The Bratislava Group, an international advisory body with expert members from States Parties with inscribed or potential parts of the Frontiers of the Roman Empire World Heritage property.

The Antonine Wall is protected by designation under the Ancient Monuments and Archaeological Areas Act 1979, and through the legislation that guide planning and development in Scotland - the Town and Country Planning (Scotland) Act 1997, the Planning etc. (Scotland) Act 2006 and the Planning (Listed Building and Conservation Areas) (Scotland) Act 1997. It is covered by
national policy for the historic environment set out in the Scottish Historic Environment Policy and Scottish Planning Policy. Policies to protect, promote, conserve and enhance the property are included in local authority development plans and strategies, supported by Supplementary Guidance. Most of the Antonine Wall is in private ownership, but some sections are in the care of local authorities and Historic Environment Scotland.

Appendix 4 – Overview and introduction to the Antonine Wall

The Antonine Wall is the remains of the Roman Empire’s northwest frontier in the mid-second century. Stretching across central Scotland from the Firth of Forth to the Clyde, the Wall was constructed, in functional operation, and then abandoned all within a period of about twenty years between the early AD 140s to early 160s. The Antonine Wall was one component within a vast and varied system of linear frontiers established by Rome during the second century AD, and other examples are known from across Europe, the Near East, and North Africa. The most famous of these Roman frontiers is Hadrian’s Wall in the north of present-day England, which preceded the Antonine Wall and served as a model for key components of its design. In 2008 the Antonine Wall was inscribed as a UNESCO World Heritage Site, joining Roman frontiers in England (Hadrian’s Wall) and Germany (the Upper German-Raetian *Limes*) as the latest addition to the “Frontiers of the Roman Empire” serial trans-national World Heritage Site.

The Antonine Wall is about 41 miles (66km) long and features a range of linear features that are present along most of this length, which is punctuated by several types of installations of various purposes; the Wall was previously reported to have a length of 60km, but this has been amended by recent three-dimensional distance measurements based on analysis of recent LiDAR survey. Although common perceptions of the term “wall” often revolve around an enclosing structure or rampart – generally of timber, stone, or brick – the term “Antonine Wall” is used by scholars and heritage managers to refer to this full collection of inter-related features. Beyond the installations, the linear features of Rampart and Ditch are typically (and would have been in the Roman period) the most topographically visible elements of the frontier.

Linear Features
Note on nomenclature: The key linear features include the Rampart, Ditch, Berm, Outer Mound, and Military Way; these features are all presented in this document with an initial capital letter in order to avoid confusion between the main frontier’s Rampart and Ditch and those ramparts and ditches that surround the Wall’s installations.

The Rampart was a turf or earth/clay superstructure set atop a kerbed stone base, averaging 4.3–4.8m wide, and rising in a sloped fashion to a height of probably at least 3m. The best-preserved Rampart remains lie just west of

38 Hannon forthcoming
Rough Castle fort (PIC175), where it survives to a height of only about 1.5–1.8m. Because the Rampart does not survive to its full height anywhere, we remain uncertain of how it was finished on top, but it was probably squared flat and may (although there is no direct evidence) have featured stakes set into the top or a wooden duckboard walk with a timber palisade. The Rampart’s superstructure differs to either side of Watling Lodge (PIC178 and PIC179), with stacked turves used from here westward and packed earth or clay revetted by clay or turf “cheeks” to the east.

The Berm represents the space between the Rampart and Ditch, and is relatively flat or gently slopes toward the Ditch to the north. The Berm is typically between 6–9m in width, but can vary widely, exceeding 30m at Croy Hill (PIC171); at some locations – usually in the eastern half of the frontier – series of pitted obstacles have been identified on the Berm, matching similar features also known from Hadrian’s Wall.

The Ditch is a monumental earthwork dug to the north of the Berm, with a V-shaped profile and banks cut at an angle of about 30 degrees, with evidence at some locations for large stones placed to strengthen its edges. Ditch size varies widely across three key sectors: generally between 6.1–10.7m wide to the east of Falkirk, an average of 12m wide and 4m deep between Falkirk and Bar Hill, and generally between 6.1–7.6m wide to the west of Bar Hill (PIC168); across its full length, the Ditch’s width ranges from a narrow 4.27m to as wide as 20.73m, although subsequent erosion must account for some of the wider widths, and it should be noted that the Ditch was not cut at all in a short section on Croy Hill (PIC171).

Immediately north of the Ditch lies the Outer Mound, occasionally called the “Upcast Mound” on the assumption that it is formed from material cast up from the digging of the Ditch. The Outer Mound is typically a low mound spread and partially leveled to a width of about 18–20m; this frequently serves to heighten the north face of the Ditch, and on north-facing slopes the Outer Mound was narrowed to further accentuate the Ditch.

The final linear feature is the Military Way, which was a Roman road located to the south of the Rampart, offering lateral communication and movement along the frontier; this was generally about 5–5.5m wide with a distinct camber and flanking ditches. The Military Way was typically situated between 36–46m south of the Rampart and was usually connected to each fort’s via principalis, with evidence at several sites (e.g. Rough Castle, PIC175; Croy Hill, PIC171) for an additional bypass road that provided movement without the need to enter the fort. At river crossings, the Military Way was provided with bridges, as confirmed at the river Kelvin near Balmuildy.

**Installations**

Installations can be grouped into five key types: forts, fortlets, expansions, minor enclosures, and possible watchtowers. Forts are the primary and largest installation type, with 17 forts currently known, ranging in size from 0.12–2.6ha. Although there is no set interval between forts, they are generally
located about 3.5km apart, and it has long been assumed by many scholars that there may have been as many as 19 or 20 forts in total; given the long gaps between the forts at Carriden and Inveravon and those at Rough Castle (PIC175) and Castlecary (PIC170), it has been suggested that additional forts may have been located at Kinneil and Seabegs (near PIC176), but these sites have only provided evidence of fortlets rather than forts. The forts themselves were – like the Rampart – primarily constructed of turf and/or clay, with stone or timber internal buildings, and all but one (Bar Hill, PIC168; and possibly Carriden, if the Rampart did not reach that far east) were physically attached to the Rampart. Whilst the majority of forts were defended by turf or clay ramparts, those at Castlecary (PIC170) and Balmuildy featured stone defences. Most forts have also been found to include an additional fortified space, traditionally called an “annexe”. The precise purpose and nature of these annexes remains uncertain, but they are likely to have been later additions and not part of the original plan; in some cases the annexe is significantly larger in area than the fort itself.

Fortlets were smaller enclosures attached to the rear (i.e. south side) of the Rampart, and were first formally identified during excavations at Duntocher in 1949; the fortlet at Watling Lodge (between PIC178 and PIC179) had been initially described in the 1720s but was only recognised as a fortlet after the discovery at Duntocher. Similar in design and construction to the Antonine Wall forts, they measure about 21m x 18m and were constructed with turf ramparts on stone bases, with small timber barrack-blocks to house the soldiers stationed within them. All known Antonine Wall fortlets had a south and north gate, the latter opening through the Rampart. These northern gateways are problematic, as only the fortlet at Watling Lodge (between PIC178 and PIC179) has provided clear evidence for a causeway across the Ditch. Although tentative traces of a possible causeway that was later removed were identified at Kinneil fortlet, it appears that most Antonine Wall fortlets either did not provide access to the north of the frontier or that a decision was made during the frontier’s short functional lifespan to eliminate these original access points; this latter view may be further supported by tentative evidence at Kinneil and Seabegs Wood (PIC176) that the north gateways of these fortlets may have been narrowed or removed. Fortlets are known from across the Roman Empire, with others on Hadrian’s Wall known as “milecastles” because of their regular spacing at approximately one Roman mile intervals. Searches in the 1970s for fortlets on the Antonine Wall succeeded in identifying some examples at Kinneil, Seabegs Wood (PIC176), Croy Hill (PIC171), Summerston, and Cleddans. If a model of a regular series of fortlets at about one Roman mile intervals is proposed, a total of 41 fortlets would be expected; to date, only nine have been definitively identified, and investigations at proposed additional fortlet locations have either provided negative or inconclusive results.

Expansions are represented by roughly square southern extensions of the Antonine Wall Rampart, constructed of turf on a cobble stone base and about 5.2m square. Six examples are currently known, all occurring in pairs located close together; two pairs are located to either side of Rough Castle fort
(PIC175), called (to the east of Rough Castle) Tentfield East/West and (to the west of Rough Castle) Bonnyside East/West, whilst a third pair is located on the western slope of Croy Hill (PIC171). The functions of these installations are uncertain, but one interpretation is that they served as signalling platforms, with some evidence of burnt material recorded at Bonnyside East. This type of installation is unknown on other Roman frontiers, and may have been a unique innovation for the Antonine Wall, serving a similar function to towers or “turrets” known from Hadrian’s Wall and the Antonine frontier in Germany.

Minor Enclosures are known at three locations along the frontier, all in the vicinity of the fortlet at Wilderness Plantation, and each identified via aerial photography. They are sub-rectangular and ditched, attached to the rear of the frontier’s Rampart. Only one (Wilderness West) has been excavated, revealing that it is later than the Rampart, and had an internal area of about 5.5m square; no entrance or internal surfaces or structures were identified. Although these appear to have been designed as permanent features, their precise function remains uncertain.

Watchtowers may have existed along the Antonine Wall, as they are known from other Roman frontiers, but no definitive evidence for this type of installation has been uncovered. The minor enclosures near Wilderness Plantation do not appear to feature structural evidence for towers, and other possible watchtowers suggested at Garnhall (PIC173) and Callendar Park require more substantiation before they can be accepted as definitively representing this type of installation.

When all of these features are taken into account, the Antonine Wall was one of the biggest ever engineering projects to be undertaken within central Scotland, and the digging of the Ditch particularly altered the local topography, with continuing implications for later periods. Currently, about one-third of the linear barrier is visible; about one third lies in open countryside but is not visible above ground, though its existence has frequently been tested through excavation; about one-third lies in urban areas, though again its survival has been tested through excavation in many areas. Only about 2 km of the total length of the Antonine Wall have been totally destroyed, though to this sum should be added minor cuttings for roads and railways.

The Antonine Wall provides significant evidence for the activities of the Roman military during the mid-second century AD. Structural remains provide evidence for the advanced degree of complexity in Roman frontier planning and construction, with the most complicated array of interlinked elements known from any Roman frontier. The short functional lifespan of the Wall – only about 20 years in total, a generation – makes this frontier particularly valuable as a dated horizon that is relatively unencumbered by the wide range of significant alterations that complicate the functional histories of longer-lived frontiers elsewhere in the Empire. Artefacts inform us about production and procurement and daily life and society on this particular edge of the Empire,
offering crucial comparative collections to assemblages from both the Empire’s other frontier zones and areas that were closer to the Empire’s cultural and political centre. Inscriptions also add a very valuable dimension that allows for the identification of specific military units, and, in some cases, even named individuals. The most important set of inscriptions are the Distance Slabs: at least 19 sculpted and inscribed sandstone blocks that record the work of building the frontier (perhaps the Rampart itself) by different legions, and which have been identified at various locations along the Wall.

The Antonine Wall’s Abandonment and Later History

Around the late AD 150s / early 160s the Antonine Wall was abandoned by the Roman army, who moved south to the line of Hadrian’s Wall and its outpost forts. Evidence from some sites, notably Old Kilpatrick and Bar Hill (PIC168), indicate that the frontier’s installations were deliberately demolished and ritually decommissioned in advance of the redeployment south. Although the Roman army would return to the area during the early third century campaigns of Septimius Severus, there is no evidence that the Antonine Wall was brought back into functional operation or reoccupied by Roman forces.

Active research and fieldwork on the Antonine Wall has – not surprisingly – focused almost entirely on its Roman period construction, functional operation, and abandonment. There is, therefore, significantly less detailed knowledge of the Wall’s post-Roman history. A possible souterrain at Shirva, in the Wall’s central sector midway between the forts of Auchendavy and Bar Hill (PIC168), may represent the earliest post-Roman settlement activity on the former Roman frontier and could have been in operation from very soon after the Roman withdrawal until as late as the AD 220s. Although the Antonine Wall had ceased to function as a frontier of the Roman Empire, it would continue to play a role in subsequent settlement and other activities in the region.

It appears likely that the Forth-Clyde isthmus served as an effective border in the early medieval period, separating the Anglo-Saxons and Picts in the east, while to the west the successive British kingdoms of Alt Clut and Strathclyde straddled the line of the former Roman frontier. Whether or not the Antonine Wall was itself utilised or recognised as a geopolitical or cultural barrier in this context, its continued visibility would have served to underscore the transitional nature of the isthmus in this period. Timber structures located along the Wall in the area of Falkirk – a ninth-century hall possibly associated with the Thanes of Callendar at Callendar Park and another large structure east of the fort at Mumrills – may represent examples of early medieval reuse of the Wall’s line as a regional power centre39.

Castles or mottes were also constructed on the line of the Wall in the Norman and later medieval period at Inveravon, Watling Lodge (PIC178 and PIC179), Seabegs (near PIC176), Kirkintilloch, and Cadder, each using some aspect of

39 For further discussion, see: Maldonado 2015
the Roman frontier as part of its own defences. These are part of a wider regional collection of medieval period fortified sites and may not necessarily reflect a conscious decision to reuse former Roman military sites. They do, however, reflect these particular locations’ continued relevance and significance as powerful places within a medieval landscape and this later reuse does not detract from the sites’ association with the Roman frontier, but adds further depth to their accumulated meanings and significances within the present. It is in this period when the Wall is first recorded (by John of Fordun) as bearing the name “Grymisdyke,” later modified to “Graham’s Dyke,” and still reflected within modern street names in the eastern half of the Wall’s line.

In the late seventeenth century the Wall began to attract serious antiquarian attention and was visited and discussed in some depth through the eighteenth century by antiquaries such as Sir Robert Sibbald, Alexander Gordon, and the Rev. John Horsley, amongst others. These antiquaries provided valuable early documentation of the Wall and its remains before the extensive industrialisation and development of the Wall’s corridor from the late eighteenth century onward. Such works included the controversial dismantling of Arthur’s O’on by Michael Bruce of Stenhouse in 1743, using the masonry from the possible Roman temple in the construction of a dam on the Carron40. Numerous other areas of the Wall also fell prey to quarrying and agricultural “improvements”, and the wider Antonine Wall corridor played an important role in the Industrial Revolution, with the formation of the Carron Iron Works, construction of the canals, steam engine experiments by James Watt at Kinneil, increased mining and factory production, and the building of the railways. The Forth-Clyde Canal was particularly important, criss-crossing the former Roman frontier multiple times and running parallel to it for long stretches; while the construction of the canal extensively damaged large portions of the Wall, it also revealed significant information and provided the context for later antiquarian activities and the transition to formalised archaeological societies and – by the 1890s – more scientific exploration.

Events in Northern Britain relating to the Antonine Wall and its abandonment41

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>138</td>
<td>Accession of the Emperor Antoninus Pius.</td>
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<tr>
<td>139</td>
<td>Rebuilding at Corbridge on Dere Street by Hadrian’s Wall.</td>
</tr>
<tr>
<td>142</td>
<td>Victory celebrated; Balmuildy built? Lollius Urbicus leaves Britain?</td>
</tr>
<tr>
<td>143</td>
<td>Wall from Castlehill to Seabegs built with primary forts, fortlets, expansions, small enclosures and Military Way.</td>
</tr>
<tr>
<td>144</td>
<td>Wall from Seabegs to Bo’ness built with primary forts, fortlets, expansions and Military Way.</td>
</tr>
<tr>
<td>144/5</td>
<td>Building of secondary forts began; fortlets amended, annexes started to be added to forts? Wall from Castlehill to Old Kilpatrick built.</td>
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</tbody>
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40 See https://canmore.org.uk/site/46950/arthurs-oon-stenhouse
41 Historic Scotland 2007: 59
145–50 Some troops sent to fight in Mauretania, in north Africa? Building work on Wall slowed or even ceased.
147- Detachment of Second Cohort of Tungrians in Raetia (modern south Germany) and possibly earlier in the reign in Noricum (modern Austria).
?153/57 Troops return to Britain from north Africa?
151+ Work recommences on the Antonine Wall.
154–55 Coin issued showing Britannia and indicating a victory in Britain.
c. 155+ Annexes added (or continued to be added) to forts; Bearsden divided into fort and annexe; Duntocher fort built; Wall from Castlehill to Old Kilpatrick built (if not earlier).
c. 158 Legionaries sent from Britain to Germany.
158 Rebuilding on Hadrian’s Wall and at Birrens.
161 “War was threatening in Britain.”
163 Rebuilding at Corbridge.
c. 163 Samian pottery indicates date of the abandonment of the Antonine Wall.
164–9 Date of coin of the Empress Lucilla found in the granary at Old Kilpatrick.
?180–90 Date of inscription recording the erection of a shrine at Castlecar.