

Derwent Valley Mills World Heritage Site Key Monitoring Indicators 2022

World Heritage Sites have an obligation to ensure that their Outstanding Universal Value is being maintained over time and interpreted to the public. To achieve this, monitoring indicators have been put in place, tailored to the specific values of each World Heritage Site. The data supports the annual report to stakeholders and the periodic report compiled for UNESCO.

The aims of such monitoring indicators are:

- to assess the state of preservation & interpretation of the site in a given year and measure change over time (recording)
- to provide detailed data to the site managers so that they can improve the protection, interpretation and management of the site (informed action)

The information collected for the indicators is used to help measure impact against the World Heritage Site's Statement of Outstanding Universal Value, approved by the UNESCO World Heritage Committee in 2010.

That Statement of Outstanding Universal Value reads: *The cultural landscape of the Derwent valley was where the modern factory system was developed and established, to accommodate the new technology for spinning cotton developed by Richard Arkwright and new processes for efficient production. The insertion of industrial establishments into a rural landscape necessitated the construction of housing for the workers in the mills, and the resulting settlements created an exceptional industrial landscape. The change from water to steam power in the 19th century moved the focus of the industry elsewhere and thus the main attributes of this remarkable cultural landscape were arrested in time.*

All UK World Heritage Sites have been encouraged to base their own key indicators on an extensive list of generic indicators compiled by ICOMOS UK. The Partnership has selected the indicators relevant to this site and agreed responsibilities for each indicator with key stakeholders.

The information gathered this year will be helpful in providing any further information which may be required by the UNESCO World Heritage Committee following the submission of the State of Conservation Report for the Derwent Valley Mills World Heritage Site, by HM Government in December 2021, for discussion at the World Heritage Committee in July 2022.

The following indicators cover the period **1 April 2021 to 31 March 2022**.

Theme	Indicator	Assessment
CONSERVATION		
Protection	1. Size of the WHS (ICOMOS INDICATOR 16)	The DVMWHS covers 1228.7 hectares. There have been no changes to the boundary in the period covered.
	2. Existence of a buffer zone (ICOMOS INDICATOR 17)	A buffer zone for the DVMWHS does exist and has been in place since inscription in December 2001. There have been no changes to the boundary in the period covered. The buffer zone covers 4362.7 hectares.
	3. WHS Policy in the Planning Development Framework (ICOMOS INDICATOR 1)	On 6th August 2020, the Ministry for Housing Communities and Local Government published a Planning White Paper entitled 'Planning for the Future', which set out the Government's proposed reforms to the planning system in England. Although it was anticipated that a Planning Bill would be subsequently published in late 2021 / early 2022 to take forward the Government's proposed planning reforms, many of the proposed reforms set out in the White Paper have been carried forward in the Levelling Up and Regeneration Bill, which was published on 19 May 2022. The Bill particularly sets out the Government's proposals to speed up the Local Plan making process, with a requirement for Local Plans to be prepared in 30 months. Proposals in the Planning White Paper for zoning of types of land for

		<p>development growth and protection, however, have not been taken forward in the Bill.</p> <p>Currently, the Planning and Compulsory Purchase Act 2004 allows departures from a planning authority's development plan in determining a planning application where material considerations indicate that the departure is warranted. The Bill modifies this provision and provides that determinations must be made in accordance with the development plan and national development management policies unless material considerations "strongly indicate" otherwise. The same weight will be given to other types of plans, including neighbourhood plans prepared by local communities.</p> <p>Local planning authorities will have a new power in the Bill to prepare 'supplementary plans', where policies for specific sites or groups of sites need to be prepared. Although the 'duty to cooperate' contained in existing legislation is being repealed, the Bill will also enable groups of authorities to collaborate to produce a voluntary spatial development strategy, where they wish to provide strategic planning policies for issues that cut across their areas.</p> <p>The Bill will require all local planning authorities to have a design code in place covering their entire area. The area-wide design codes will act as a framework guiding more detailed design codes for specific areas or sites and led either by the local planning authority, neighbourhood planning groups or by developers as part of planning applications. There are also measures in the Bill described as strengthening the role of the planning system in protecting the historic environment. Designated heritage assets, including World Heritage Sites, will be afforded the same statutory protection in the planning system as listed buildings and conservation areas. Heritage protection policies are one of a number of issues that apply in most areas which will be set out nationally. These will be contained in a suite of National Development Management Policies to be published by Government, which will be subject to public consultation later in 2022.</p> <p>If the proposed reforms to the planning system set out in the Bill are taken forward into legislation, there will be a key role for the WHS Partnership to work with the relevant local planning authorities across the designated WHS area to ensure that the DVMWHS and Buffer Zone are appropriately defined and designated as a Protected Area in their new style Local Plans. There will also be a role for the partnership to ensure that Local Design Codes appropriately take into consideration the importance of the OUV of the WHS and its Buffer Zone. Furthermore, it will be important for the WHS Partnership to provide comment on the forthcoming consultation on National Development Management Policies that will include policies for World Heritage Sites.</p> <p>LOCAL DEVELOPMENT PLANS</p> <p>District and borough councils are responsible for preparing plans and policies for the development and use of land (excluding minerals and waste) in their administrative areas. Derbyshire County Council prepares local planning policies for minerals and waste development, using the 'National Planning Policy for Waste' (16 October 2014) for waste matters. Local planning authorities prepare their Local Plans and determine planning applications in the context of the National Planning Policy Framework and regularly updated online Planning Practice Guidance.</p>
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	4. Planning guidance for development in the WHS (ICOMOS INDICATOR 18)	<p>In October 2021, responding to concerns by UNESCO's World Heritage Centre over planning decisions in the DVMWHS, three training sessions were offered to officers and councillors with responsibility for planning decisions and recommendations across each of the authorities covering the DVMWHS. In all, 104 people signed up for the sessions, delivered through Microsoft Teams. For those unable to attend the sessions, a link to a video version of the presentation was made available and can be found at https://youtu.be/wLxYCLCwKqA. The training draws on guidance from the current DVMWHS Management Plan, adopted by the UK Government in 2020. Local planning authorities have been encouraged to use the training video when inducting new councillors and planning officers.</p> <p>Since around 2010, all Derbyshire Local Planning Authorities have carried out reviews of their Local Plans, with the majority of Local Plans having been adopted and which provide an up-to-date context for development. In the meantime, for those authorities which do not have such plans, all relevant (old) Local Plan policies have been "saved" that are needed to determine planning applications and guide development.</p> <p>The World Heritage Site is covered by policies in the Local Plans for the five planning authorities: Derbyshire Dales District Council, Amber Valley Borough Council, Erewash Borough Council, Derby City Council and Derbyshire County Council.</p> <p>Derbyshire Dales</p> <p>The Examination in Public of the Draft Local Plan took place in Summer 2017. The Derbyshire Dales Local Plan was formally adopted by Council on 17 December 2017.</p> <p>Policy PD2: Protecting the Historic Environment, seeks to conserve heritage assets in a manner appropriate to their significance. This will take into account the desirability of sustaining and enhancing their significance and will ensure that development proposals contribute positively to the character of the built and historic environment. The policy indicates that particular protection will be given to designated and non-designated heritage assets and their</p>

		<p>settings including the Derwent Valley Mills World Heritage Site.</p> <p>Derbyshire Dales District Council has adopted Supplementary Planning Documents (SPDs) relating to: The Conversion of Farm Buildings (revised and re-adopted - 2019); Shop Fronts & Commercial Properties (revised and re-adopted - 2019); and Landscape Character (adopted – 2007).</p> <p>In early 2021, Derbyshire Dales District Council commenced a review of its Local Plan. On 23 June 2021, the District Council published its Derbyshire Dales Local Plan Sustainability Appraisal (SA) Scoping Report, which seeks to identify key social, economic and environmental issues that will need to be addressed in the Local Plan Review. Reference is made in Chapter 17: Heritage, to the Derwent Valley Mills World Heritage Site and the aims of the WHS Management Plan, as important considerations which will need to be taken account of in preparation of the Local Plan Review.</p> <p>In July 2021 Derbyshire Dales District Council adopted a 'Climate Change' supplementary planning document.</p> <p>Amber Valley</p> <p>The saved policies of the adopted Amber Valley Borough Local Plan (2006) includes a policy relating to the Derwent Valley Mills World Heritage Site, its buffer zone and Management Plan (policy EN29). Policy EN7 also relates to landscape character areas and includes reference to the presence and pattern of historic landscape features. Policy EN32 states that planning permission will not be granted for development proposals that would have an adverse impact on the landscape character of a registered Historic Park and Garden or its setting.</p> <p>Amber Valley Borough Council has adopted Supplementary Planning Documents on Residential Development (which includes extensions and the conversion of farm buildings), Shop Fronts and Advertisements, Listed Buildings and Buildings in Conservation Areas and Development and Recreational Open Space. A Supplementary Planning Document and Planning Brief for land between the A6 and the river Derwent has also been adopted by the Borough Council.</p> <p>A new Amber Valley Borough Local Plan which included a specific policy relating to the Derwent Valley Mills World Heritage Site was prepared and was submitted to the Secretary of State for examination on 2 March 2018. An Examination in Public took place in June 2018 (after the period covered in this review) but was suspended by the Inspector in July 2018 pending further work by Amber Valley Borough Council, particularly the need to carry out a strategic Green Belt Review of the Borough. Following the completion of a Green Belt Review, the Council published a Green Belt Amendments & Additional Site Allocations document in March 2019, for public consultation. Following the receipt of representations, the Council resolved in May 2019 to withdraw the Submission Local Plan. A proposed indicative programme and timetable for the preparation of a new Local Plan through to adoption was agreed by the Council in November 2019 and this was subsequently confirmed in January 2020. This programme and timescale were subsequently refreshed by the Borough Council in June 2021, with a target for adoption by September 2023. On 8 July 2021, Amber Valley Borough Council published its Amber Valley Local Plan Alternative Strategy Options for Housing and Economic Growth as a first key stage of preparation of the new Local Plan.</p>
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	5. Designations (ICOMOS INDICATOR 19)	<p>There are 370 Listed properties in the WHS which are comprised of over 860 individual homes, businesses and structures. There are 13 Scheduled Monuments and 812 Monument records (records of other heritage assets) on the Historic Environment Record.</p> <p>The percentage of the WHS protected by designations (including Scheduled Monuments; Conservation Areas; Local Wildlife Sites; Special Protection Areas; Special Areas of Conservation; Ramsar sites; National Nature Reserves; Sites of Special Scientific Interest; Local Nature Reserves) is 51.3%. The percentage of the buffer zone covered by the same designations is 31.7%.</p>
Condition of site	6. List and number of cultural features in poor condition (ICOMOS INDICATOR 2)	<p>A condition survey of key features based on the Outstanding Universal Value of the WHS, including fixed point photography, has been achieved. It has been agreed this survey take place every five years, as part of the quinquennial review for the Management Plan. The latest survey was in April 2017, with the next planned for April 2022. Preparatory work on this began in March 2022.</p>

		<p>Buildings at Risk</p> <p>A general air of relative prosperity throughout the settlements of the World Heritage Site obscures several instances of significant buildings seriously at risk from neglect and under-use.</p> <p><u>Amber Valley</u></p> <p>Due to the addition of Belper's East Mill, there are 9 buildings at risk in the Borough that lie within the World Heritage Site, 3 of which are also on the Historic England 'Register of Heritage at Risk' (grade I and II* listed).</p> <p>The North Mill, Bridgefoot, Belper is the earliest example of a completely iron framed mill in the world and is currently in poor condition. Applications for full planning permission and Listed Building Consent for a mixed-use development, including conversion of the iconic East Mill to 117 apartments, were submitted in October 2018; the application is pending and has not been determined.</p> <p>An offer of grant assistance from the WHS-focused NLHF/ACE Great Place Scheme was offered to the owners of the Mill site, for a fully-costed condition survey and repairs schedule. The planning applications and the Condition Survey are on-going.</p> <p>Substantial repairs have been made to the Former Canal Lengthman's Cottage, by Cromford Canal, including a new roof structure, stone repairs and reinstatement of window frames and entrance door, to consolidate the external envelope of the building, in preparation for its re-use as a visitor centre for the Lea Wood Nature Reserve for/by the Derbyshire Wildlife Trust.</p> <p>Being in use as two dwellings, the restored Brook Cottage could be removed from the 'at-risk' register.</p> <p>Following a partial roof collapse, at the end of 2021, work has commenced to convert the former Fuchs warehouse (once occupied by Dalton and Co. Ltd. Silkolene Lubricants, Derby Road) to apartments. It remains one of the 9 buildings at risk, in the WHS until the project is complete.</p> <p>The current mixed use of De Bradelei Mills (Mills occupied by George Brettle and Co Ltd Chapel Street), is the subject of a change of use application to an apartment style hotel to the upper floors of part of the complex,</p> <p>The new owner of Pottery Methodist Chapel is still developing plans for an application for the re-development of the site.</p> <p>Although the intended submission for 2021 has been delayed by the pandemic, the Authority is still in regular contact with the owner, to monitor progress. Substantial clearance works were previously carried out, internally, and the owner had also purchased a strip of land adjacent to the rear of the property to facilitate better access.</p> <p><u>Derby</u></p> <p>There are a number of buildings at risk in the City that lie within the World Heritage Site.</p> <p>A number of these are included within 3 entries on the Historic England 'Register of Heritage at Risk' (grade I and II* listed) which are:</p> <ul style="list-style-type: none"> ▪ Darley Abbey Mills (South complex) Long Mill and West Mill - roof and general repairs have been completed to Long Mill. It is to remain on the list until necessary repairs have been carried out on all buildings within this entry where needed. ▪ Darley Abbey Mills (North complex) North Mill, Engine House and Boiler House,
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		<ul style="list-style-type: none"> ▪ Darley Abbey Mills (North Complex) preparation building, cottage, workshop & cart sheds. Old Lane, Darley Abbey. <p>Within the buffer zone there was one entry on the Historic England National List; Allestree Hall. There have been applications submitted for the conversion of this building to a wedding venue – which have been approved and works on discharging pre-commencement conditions of the permission are about to start.</p> <p><u>Derbyshire Dales</u> Planning permission and listed building consent have expired for the reinstatement of the Aqueduct (valid until end of 2010). Whilst discussions have taken place with the Arkwright Society, the District Council and Derbyshire County Council, reinstatement is being delayed by the requirements of the Highway Authority. Discussions are intermittently being undertaken with the Arkwright Society, Historic England and Derbyshire County Council Highways Authority.</p> <p>At the end of March 2022, Derbyshire Dales District Council had 1 entry within the WHS included on the Historic England ‘Register of Heritage at Risk’ which includes:-</p> <ul style="list-style-type: none"> - Buildings 1, 18 & 26, Cromford Mill, Mill Road (Grade I)* and - The Aqueduct, Mill Road (Grade I)* <p>* The buildings at the Cromford Mill site are identified as a single entry.</p> <p><u>Erewash</u> Erewash does not have any entries on the Buildings at Risk register which relate to buildings situated within the extent of WHS located inside the Borough.</p>
	7. List and condition of natural features within the WHS (ICOMOS INDICATORS 3 & 4)	<p><u>Woodland</u> There are 1045ha of woodland of all types and all sizes in the WHS and the Buffer Zone.</p> <ul style="list-style-type: none"> • The area of ancient semi-natural woodland (excluding plantation on ancient woodland site) is 413 ha of which 220 ha is known to be managed positively (53%). • The area of PAWS is 113.5 ha of which 65.5 ha is managed (57%). • The area of secondary woodland is 399.39ha (c.110 ha known to be managed). • 5.76 ha new (since 1980) woodland (2.63ha managed). <p><u>Grassland</u> There have been a number of minor changes in grassland due to new data, corrections/improvements to boundaries etc. The total area of semi-natural grassland in the WHS and the Buffer Zone is 251 ha. This figure includes semi-improved and unimproved grassland (whereas before semi-improved was excluded) Of which –</p> <ul style="list-style-type: none"> • 27.86 ha lowland dry acid grassland (priority habitat). • 1.73 ha lowland calcareous grassland (priority habitat). • 81.99 ha lowland meadow (priority habitat) – a slight increase of 0.46 ha. <p>This represents:</p> <ul style="list-style-type: none"> • 9% of the total Ancient Woodland in Derbyshire • 11.29% of acid grassland in Derbyshire (outside PDNPark) <ul style="list-style-type: none"> • 0.3% of calcareous grassland in Derbyshire (outside Peak District National Park)

		<ul style="list-style-type: none"> 11.5 % of neutral grassland in Derbyshire (outside Peak District National Park)
Development pressure	8. Number of planning applications in the WHS (ICOMOS INDICATOR 15)	<p>Amber Valley Borough Council Total number of applications in the WHS =125. Permitted – 91; Refused – 11; Withdrawn – 10; Application returned – 13.</p> <p>Total number of application site in the Buffer Zone = 220. Permitted – 192; Refused – 16; Withdrawn –9; Application returned – 3.</p> <p>Derby City Council Within WHS: 48 Applications received – 13 determined,35 undetermined. 13 Determined: Granted Conditionally = 12 (5 FUL apps, 2 LBA, 2 Works to TPO trees, 1 Certificate of lawful Existing Development. 2 certificate of lawful development to a LB,. 35 Undetermined (3LCO, 1 CAT, 1 FUL, 30 LBA) Within WHS Buffer : 109 Applications received – 99 Determined, 10 Undetermined. Determined: Granted Conditionally = 91 (49 FUL, 10 TPO, 2 LBA Consents, 1 Variation of Condition, 3 Certificate of lawful Proposed development,2 ADV, 22 CAT, 1 LCO, 3 NONM - Non-material amendment, 1 RES, 7 TPO, 1 VAR). 4 for prior approval. 4 refused (1 ADV, 7 FUL, 1 LBA and 1 VAR)</p> <p>Derbyshire Dales District Council Applications received between 1 April 2021 and 31 March 2022:</p> <ul style="list-style-type: none"> No of Applications in the WHS = 14. No of Applications in the Buffer Zone = 25. <p>Total = 39 In WHS (not buffer zone): 8 Approved with Conditions; 0 Refused; 1 Permitted with No Conditions; 0 Withdrawn; 0 raised No objections; 4 for Listed Building Consent; 10 for Planning Permission; 0 for Outline; 0 Variation of Condition; 0 County Matters; 0 for Telecommunications; 0 Agricultural Notifications; 1 Non Material Amendment; 0 Adverts; 0 Certificate of Lawful Use/Development.</p> <p>In the Buffer Zone: 12 Approved with Conditions; 2 Refused; 5 Permitted with No Conditions; 0 raised No objections; 4 for Listed Building Consent; 17 for Planning Permission; 0 for Outline; 0 County Matters; 0 Adverts; 3 Certificate of Lawful Use/Development, 1 Variation of Condition(s).</p> <p>Erewash Borough Council There was one planning application in the World Heritage Site in Erewash, which was withdrawn. In the World Heritage Site Buffer Zone, there were three householder applications and four works to trees in a conservation area applications. All were approved.</p> <p>A38 Derby Junctions Scheme The A38 Derby Junctions Scheme is being promoted by National Highways for the grade separation of the three existing junctions on the A38 through Derby falling within Derby City (Kingsway and Markeaton Junctions) and Erewash Borough (Little Eaton Junction). The scheme was subject to a Development Consent Order (DCO) application to the Secretary of State for Transport that was submitted by National Highways in April 2019 and for which the Examination in Public took place between October 2019 and July 2020. Although the Secretary of State subsequently granted the DCO for the scheme, the decision was subject to a successful legal</p>

		<p>challenge in the High Court by a climate change campaign group and the DCO was subsequently quashed. The DCO was then re-submitted by National Highways to the Secretary of State in September 2021 to address the reasons for the High Court challenge. The Secretary of State's decision is anticipated in July 2022. Should the DCO be granted, National Highways plans to commence work on the scheme in the Autumn of 2022.</p> <p>The proposed Little Eaton junction improvements impact on the DVMWHS buffer zone and include a new bridge crossing over the River Derwent and new flyover over the existing Little Eaton roundabout. Landscape and visual impacts on the OUV of the WHS were an important issue that was considered through the examination process, particularly the design of the new bridge crossing and flyover. Extensive landscape mitigation is, therefore, proposed as part of the design of the scheme.</p>
Change and Setting	9. List of physical changes within the WHS, particularly with identified iconic views, & record of any loss (ICOMOS INDICATORS 5, 6, 9 & 46)	Over 40 monitoring views of the World Heritage Site were established and recognised by the Derwent Valley Partnership members in 2007/8. The establishment of a baseline reference in 2007/8 has allowed visual monitoring of these views to begin. It has been agreed this survey take place every five years, as part of the quinquennial review for the Management Plan. The latest survey took place in April 2017. The next will be in April 2022, for which work began in March 2022.
USES & INTERPRETATION		
Population	10. Number of people living in WHS (ICOMOS INDICATOR 28)	<p>Latest figures are for 2020: World Heritage Site: 4,738. Buffer Zone: 30,309. Age breakdown: 0-15 WHS 587; BZ 4,860 16-29 WHS 619; BZ 4,616 30-44 WHS 879; BZ 5,288 45-64 WHS 1515; BZ 9,041 Retirement Age WHS 1138; BZ 6,504</p>
Tourism	11. Number profile and satisfaction of visitors to the WHS (ICOMOS INDICATORS 8 & 10)	<p>In 2021-2022 the recorded visitors for Middleton Top, High Peak Junction, Leawood Pumphouse, Birdswood, Strutt's North Mill, Belper River Gardens, Cromford Mill, John Smedley's, Derby Museums (Museum of Making, Museum and Art Gallery and Pickford's House) were 405,373.</p> <p>The figures are lower than previous years as not all the attractions were open for the whole year as many reopened in June 2021 after closure for a number of months due to the pandemic. Masson Mills Shopping Village and Museum has not reopened since the pandemic and is unlikely to in the immediate future.</p> <p>Due to the uncertainty around the pandemic, and planning for a new Georgian Derbyshire festival, the Discovery Days festival was not held at all in 2020. We celebrated the 20th anniversary of inscription with a series of videos that were shown online and these were viewed over 1,000 times over the 12 days they were shown.</p>
	12. Economic impact (ICOMOS INDICATORS 12 & 14)	For the period covered by this report at Cromford Mills 8 new businesses located to the mill complex and this created 10 new jobs, and there were 7 new virtual tenants. In Darley Abbey Mills 4 new businesses located to the mill complex and created approximately 30 new jobs. In terms of business support in the Amber Valley area of the DVMWHS, 31 businesses were supported over the year with training, businesses received almost £10m grants to support them through the pandemic from a range of local, regional and national grant schemes, and 67 businesses have received support through the local enterprise partnership to assist

		<p>their business.</p> <p>The value of secondary spend in the DVMWHS was worth £9,959,602 (this is calculated on visitor numbers using the Economic Value of the Independent Museum Sector: Toolkit)</p>
	13. Local Community Involvement (ICOMOS INDICATOR 37)	<p>Community groups which support one or more of the aims of the Derwent Valley Mills World Heritage Site include: The Arkwright Society; Friends of Cromford Canal; Belper Historical Society; Belper North Mill Volunteers; Darley Abbey Community Association; Darley Abbey Society; Friends of Belper River Gardens; Friends of Darley Open Spaces; Belper Clusters Group, Belper Neighbourhood Plan Group, Accessible Belper, Darley Abbey Historical Group, Milford and Makeney Community Group and The Belper Strutts Society.</p> <p>There are usually about 70 active volunteers helping at the key mill sites. During the pandemic, this reduced significantly, and did not return to pre-Covid 19 levels during the time covered by this report.</p> <p>Community engagement projects are diverse and manifold across the site. Some are aligned closely with the work of the Derwent Valley Mills World Heritage Site team; others involve the work of partners but take place within the World Heritage Site itself and help promote the site. The community engagement projects which have taken place in the reporting period – i.e. during the pandemic – were carried out through the National Lottery Heritage Fund and Arts Council England funded Great Place Scheme using digital media.</p> <p>Over the year 13,578 volunteer hours were recorded from Strutt's North Mill, Cromford Mill and Derby Museums. This is lower than previous years as some of the attractions reliant on volunteers had very limited opening hours when they reopened.</p> <p>The number of Ambassadors for Belper (162), Darley Abbey (30) and Milford Ambassador (5) remained static during the time covered by this report, as pandemic restrictions made delivery impossible. Extensive work was carried out to create a new Cromford Ambassador Scheme, and update the three other schemes, ready for a re-launch in 2022.</p>
Education and Promotion	14. Educational resources and activities (ICOMOS INDICATOR 11)	<p>This report covers the period April 2021 – March 2022. The Derwent Valley Mills World Heritage Site (DVMWHS) education and promotion continued throughout this period to be significantly impacted by the ongoing Covid-19 pandemic. Some sites were closed, staff were returning from furlough and various restrictions were in place. There was also hesitancy from different groups and audiences to be able to return to on-site visits and events.</p> <p>The DVMWHS Learning Group (coordinated by Derbyshire Environmental Studies Service) continues to meet online to collaborate in delivering educational activities and promotion, and reporting progress with the management plan. The DVMWHS central coordinating team does not have its own learning or engagement coordinator. The role and support provided by Derbyshire Environmental Studies Service over the past 5 years is likely to diminish as the team have moved to a different section within Derbyshire County Council with a new focus and their staff capacity has reduced. This will further impact on delivery and coordination over the coming year.</p> <p>DVMWHS Discovery Days Festival: For 2021 it was planned to have</p>

		<p>a different focus for the Discovery Days and experiment with trialling a Derbyshire Georgian Festival in partnership with Buxton Crescent. Unfortunately, due to a number of restrictions and issues this wasn't able to take place and has been moved into Autumn 2022.</p> <p>The Machinery: In October 2021 'The Machinery', an immersive sound and video installation took place at Cromford Mills and Strutt's North Mill, Belper. This captured the earliest known machine dance with a performance, sounds and movements of the industrial revolution. It mixed dance steps with music and video to reflect the conditions of the women millworks' repetitive labour and the human/automaton relationship created by the Industrial Revolution.</p> <p>Shine a Light on Derbyshire: Also in October 2021 there was a celebration of Derbyshire's heritage. Two events took place (one at Chatsworth House and one in the DVMWHS at Cromford Mills) featuring large-scale video projections illuminating two of the county's iconic buildings. The event at Cromford was very successful and enabled visitors to watch Derbyshire's history unfold in spectacular night-time shows projected onto the mill building. It shone a light on our stories and brought them to life in an extravaganza of light and sound. It is planned to repeat 'Shine a Light' at Cromford and other Derbyshire locations in 2022 and in 2023 focus on different sites around the DVMWHS.</p> <p>Enslavement Acknowledgement, Diversity and Representation: A training session took place in June 2021 for DVMWHS Strategic Board members, Technical Group members and on-site engagement staff and volunteers. This helped increase understanding and knowledge around the role of enslavement and colonialism in the story of the DVMWHS and how we collectively acknowledge and take this forward both in terms of acknowledgement and increasing the diversity of staff, volunteers and visitors to the DVMWHS. This session was supported by researchers from the University of Nottingham, Bright Ideas and Legacy Makers volunteers and diversity and representation experts, and coordinated by the Derbyshire Environmental Studies Service. This has resulted in a number of projects being supported and taken forwards including a new volunteer guide for Strutt's North Mill, Belper to include and acknowledge enslavement, a session to allow input from educators and teachers in a set of teaching resources being prepared by Bright Ideas on this subject and continuing to ensure this important story is highlighted and acknowledged in new interpretation, guided tours and the new 3-D projection 'Arkwright and Strutt' at Cromford Mills. One of the DVMWHS Key Stage 2 loan boxes focuses on 'people' which includes the workers and enslaved cotton workers, and acknowledgement is also included in 'The Story of the Derwent Valley Mills World Heritage Site' children's guide which continues to be well received.</p> <p>DVMWHS Learning for Schools Leaflet: The learning leaflet funded by the national Lottery Heritage Fund and Arts Council England, Great Place Scheme was re-circulated in March 2022. It was issued to schools in Derbyshire, Derby City, Sheffield City, Nottinghamshire, Nottingham City, Leicestershire and Leicester City. 11 partner organisations are featured in the leaflet. To view the leaflet visit: http://www.derwentvalleymills.org/wp-content/uploads/2021/07/DVMWHS-Learning-For-Schools-Leaflet-</p>
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[FINAL.pdf](#)

DVMWHS Joint Education and Engagement Report and Pilot

Activities: DESS were commissioned as part of the Great Place Scheme to consult with the key visitor attraction sites and investigate the needs for the DVMWHS relating to education and engagement. The resulting report had a series of recommendations, the highest priority being the desperate need for a dedicated DVMWHS Learning and Engagement coordinator to push forwards the actions in the Management Plan. The report has been presented twice now to the DVMWHS Technical Group and Strategic Board for consideration and the DVMWHS Learning Group continues to press for adoption of the following recommendations:

- Secure funding to recruit a long term central DVMWHS Learning and Engagement Coordinator.
- Integrate and raise awareness of the World Heritage Site Status of the Derwent Valley Mills and the reasons for Outstanding Universal Value into Learning and Engagement delivery.
- Recognise that quality education and engagement needs suitable places and spaces.
- Acknowledge Heritage Learning and Engagement is an entitlement and provides an important service for health and well-being.
- Monitor and recognised closed attractions/sites as 'education and engagement' losses.
- Recognise volunteer vulnerability and work collaboratively to support future volunteering needs.
- Work collaboratively and share best practice.

As part of the project, 10 pilot education and engagement activities were developed for different audiences relating to the DVMWHS to develop more cross-site collaborative working. These were delivered between April and July 2021 by Derbyshire Environmental Studies Service.

1. Introducing World Heritage, the DVMWHS and its OUV:

This includes a series of texts and photographs to introduce different audiences accurately, simply and coherently to what a world heritage site, why the DVMWHS was inscribed and its main attributes and elements. See:

<http://www.derwentvalleymills.org/discover/learning-for-all/learning-schools/teaching-resources/introducing-the-derwent-valley-mills-world-heritage-site/>

DVMWHS Resource Loan Boxes:

A series of loan boxes were prepared which can be used by different groups either on location at sites in the DVMWHS, within schools or settings or as part of outreach and events. These all include stories and themes linked to the DVMWHS with instructions, supporting artefacts, objects and resources and craft equipment and kit to be self-contained. These were all successfully trialled, well received and are on a loan schedule available to groups.

- 2) **Adult Outreach Loan Boxes:** This loan box can be used in a variety of ways – for example using with adult groups who are receiving a talk about the Derwent Valley Mills World Heritage Site or during a session before or after a mill site visit. It is also suitable for use with older students studying the site or focusing on art and creativity. The

		<p>activities and resources include:</p> <ul style="list-style-type: none"> • Books and old images of the DVMWHS • Old maps of the areas around the Derwent Valley Mills World Heritage Site • Screen printing equipment to create your own art pieces inspired by the site • Drawing and painting resources and instructions for painting landscape and building views. • Textile activities including big knitting and circular or French Knitting inspired by the machinery in the mills. <p>3) <u>Early Years Outreach Loan Box:</u> The activities are designed for nurseries, playgroups, younger families and early years settings to play and explore and are linked to the spinning mills, valley landscape and waterpower. Activities and resources include:</p> <ul style="list-style-type: none"> • Floor play activities and a 'small world' river and landscape play mat with canal boat • Knitted Mill workers and knitted bobbins • Water Wheels play set • Story books – "Arkwright the Duck", "Millie the Mill Mouse" and "The Story of the Derwent Valley Mills World Heritage Site". • Textile activities – peg loom for weaving, embroidery thread • Cotton samples – plant, raw cotton, spun cotton, woven cotton. • Colour images of different parts of the Derwent Valley Mills • Colouring Sheets • Links to videos that capture the sights and sounds of the mill machinery to set the scene. <p>4) <u>Key Stage 2 Outreach Loan Boxes:</u> There are five separate boxes of creative and artistic activities linked to themes of why the Derwent Valley Mills was inscribed as a World Heritage Site. Each box contains images and resources to support your activity, step by step instructions of how to do the activity, copies (1 per pupil) of the DVMWHS Children's Guide for them to keep, an example 'piece' of the craft activity for inspiration and all the equipment and resources required for a volunteer, education staff member, teacher or group leader to lead the activities. The themes are 'buildings', 'landscape', 'people', 'transport' and 'water-wheels'.</p> <p>5) <u>Older People 'Memories of the Mills' loan box:</u> This resource loan box is designed for use with older adults perhaps in a day centre or care home setting. It has been put together to kindle memories and conversation around living and working in and around the Derwent Valley World Heritage Site. These might be direct memories or those passed on by parents and grandparents. Resources in the box include:</p> <ul style="list-style-type: none"> • A presentation – either online or in a folder flip book about the Derwent Valley Mills World Heritage Site. • A range of books, old photographs, old maps and newspaper articles about the mills • Bobbins from the Mills • A Derwent Valley Mills World Heritage Site Quiz • A postcard sketching activity • Word search • Links to videos, films, poem and recordings of oral
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		<p>histories of mills workers from the 1920s to late 80s and the sights and sounds of the mills in operation</p> <p>Details here: http://www.derwentvalleymills.org/wp-content/uploads/2021/07/DVMWHS-ACTIVITY-LOAN-BOXES.pdf</p> <p>6) <u>Pop up Exhibition and Canal Trail Sketch Booklet:</u> In April 2021 a socially distanced outdoor exhibition took place of different artwork created by projects across the DVMWHS Great Place Scheme. These large scale, waterproof boards were temporarily exhibited around Cromford Mill Yard, along Cromford Canal, High Peak Junction, Leawood Pumphouse and Aqueduct Cottage. Throughout the exhibition and event, visitors were able to collect a free sketch book and pencil to encourage drawing and creativity in this northern hub area of the site. Sketch Books are still available to download and use by visitors here: http://www.derwentvalleymills.org/discover/learning-for-all/learning-families/cromford-canal-sketch-book/</p> <p>7) <u>Fantastic Transport: Self-led activities for Key Stage 1 Schools Programme from High Peak Junction, Leawood Pumphouse and Cromford Canal:</u> A WOW! day to remember which could include a ride on a train or a bus, a 'cruise' on a canal boat, a wonderful walk-through nature and a chance to explore High Peak Junction, one of the oldest remaining railway workshops in the world. You can download the Teachers Guide for KS1 and the resources for this pick and mix day of self-led activities along Cromford Canal and around High Peak Junction here. You can book to borrow the box of physical resources from High Peak Junction by emailing: DVMWHS@derbyshire.gov.uk</p> <p>8) <u>The Wonders of STEAM: Self-Led activities for Key Stage 2 Schools Programme from High Peak Junction, Leawood Pumphouse and Cromford Canal:</u> This inspiring STEAM themed day allows your pupils to discover the history, engineering and science behind the world's first long distance horse drawn railway. There are opportunities to take a ride on an historic narrow boat and to explore High Peak Junction, one of the oldest remaining railway workshops in the world. You can download the Teachers Guide for KS2 and the resources for this pick and mix day of self-led activities along Cromford Canal and around High Peak Junction and also book to borrow the box of physical resources from High Peak Junction by emailing DVMWHS@derbyshire.gov.uk and more information is available at http://www.derwentvalleymills.org/discover/learning-for-all/learning-schools/visits-and-trips/high-peak-junction/</p> <p>9) <u>Online lesson and virtual trail along the Cromford Canal</u> As a lot of activity was still taking place virtually this resource used 'Nearpod' an online lesson platform. It enables people to take a virtual journey along the Cromford Canal with lots of activities to complete along the way focusing on the heritage and wildlife and includes a virtual tour of the back cabin on the Birdsworth Canal Trip Boat. Visit: http://www.derwentvalleymills.org/discover/learning-for-all/learning-families/cromford-canal-heritage-and-wildlife/</p> <p>10) <u>Volunteer training</u></p>
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		<p>The final element of this project was to deliver training in June 2021 to volunteers, education and engagement staff in how to use the resources created in 1-9 above. This was well received, and sites and groups are starting to promote the resources to their visitor and outreach groups and use the resources at events and workshops.</p> <p><u>Nightwatchmen's Report:</u> A crowdfunding project saw Belper Historical Society and Derbyshire Record successful purchase "The Watchmen's Reports" relating to Belper, Derbyshire covering the period February 3rd 1833 to July 16th 1836. In February 2022, the Derbyshire Environmental Studies Service used this source to create a series of learning activities for Secondary Schools. The learning pack provides all the instructions and resources to help focus on:</p> <ul style="list-style-type: none"> • Conducting a local history study • Learning to use primary sources • Exploring the impacts on society of Britain as the first industrial nation • Exploring Crime and Punishment in Britain prior to the introduction of the police force. <p>Activities included:</p> <ol style="list-style-type: none"> 1) Analysing documents 2) Creative Crime and disorder 3) Mapping crime and punishment. <p>The Teaching pack and accompanying resources can be downloaded from: http://www.derwentvalleymills.org/discover/learning-for-all/learning-schools/teaching-resources/the-night-watchmens-reports/</p> <p><u>Cromford Mills</u> In June 2022 Cromford Mills launched a new, expanded, education offer that had been developed over lockdown with the support of the Derbyshire Environmental Studies Service. Six new programmes for primary students were trialled plus new virtual options and a sustainability-themed day for secondary students, linking heritage to a range of curriculum subjects and attracting a wider school audience. There were 1726 students visiting the mills between June 2021 and March 2022, and 405 students visited virtually between April 2021 and March 2022.</p> <p>The Arkwright Society also launched a new family tour called 'Time Traveller's Tour', and continued pond dipping sessions over the summer holidays. They gave out over 525 prizes across the school holidays to families completing free trails, which highlighted the local geography and history of the area.</p> <p><u>Strutt's North Mill, Belper:</u> 2021-2022 saw varying degrees of lockdown, followed by things seemingly "back to normal". There were several school visits in the latter part of 2021 and early 2022. News of the mill museum closure has schools now looking to book between May and September 2022, prior to the closure taking effect. These are mostly primary schools, but a couple of secondary history courses, plus some Brownies/rainbows/special interest adult groups. The notice of closure has forced a rethink over the museum's offer, so the education team and manager are creating an outreach programme, so that an education package can be delivered, even with the building closed. This was successfully piloted with a local school and has given the education team the confidence to pursue</p>
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		<p>this as a viable future option. The education team volunteers have worked hard behind the scenes to set these and the outreach programme into motion, and should be praised for their efforts. They are promoting the presence of the DVMWHS and the significance of OUV in the future outreach offer for schools. February half term activities were successful with plans for Easter 2022 and Summer 2022 underway.</p>
	15. Number of visitors to website (ICOMOS INDICATOR 35)	<p>The www.derwentvalleymills.org website once again provided a globally-accessible source of in-depth information about the Derwent Valley Mills during 2021/22. There were 212,103 page views (over twice that of 2010/1), 93,339 sessions and 77,249 users. The average number of pages viewed per visit was 2.3 and the average time spent on the website per visit was 1 minute 28 seconds. The WHS Facebook page has a small but growing number of followers (2,328), the Twitter account is followed by 5183 people and we have 1,003 Instagram followers.</p>
Sustainable transport	16. % of visitors arriving or travelling within the WHS by other means than car (ICOMOS INDICATOR 40)	<p>Trying to establish a percentage of people not using a car to visit and move around the WHS has proven to be difficult, as so much movement within the Site is not recorded.</p> <p>The impact of the COVID-19 pandemic continued to impact on the number of passengers using the Derwent Valley Line. Key factors included the continuation of some travel restrictions until mid July, home working and the lack of a return to a full timetable, in particular a loss of train service beyond Derby to Nottingham. From July there was an upturn in leisure travel especially to Matlock Bath, but the significant reduction in commuter travel with hybrid working, the new norm for many people. As a result, Derwent Valley Line passenger use was 63% compared with 2019/20 figures (pre-pandemic baseline), although Matlock Bath returned to 85% of the pre pandemic level.</p>
Green agenda	17. Environmental policy (ICOMOS INDICATOR 42)	<p>Derbyshire County Council has commissioned a Derby, Derbyshire and Peak District National Park Renewable Energy Study on behalf of the County Council, Derby City Council, the eight district and borough councils and the Peak District National Park Authority. The study was commissioned in December 2021 and a final version of the Study is anticipated to be complete in Mid-June 2022. A key aim of the study is that it will provide the constituent local planning authorities in the study area with essential evidence to inform the development of future planning policy on renewable energy and guide new renewable energy developments to the most suitable locations in the study area, taking into account key policy and environmental constraints, which includes the World Heritage Site.</p> <p>Units of electricity produced by Hydro-power from turbines at the mill sites in the DVMWHS, between April 2021 and March 2022 are as follows: Milford - 1171 MWh Belper - 1781 MWh Masson – 414 MWh Total – 3366 MWh</p> <p>A general offset in CO₂ emissions can be calculated using a 0.25 multiplier per MWh, this is just a rule of thumb as the UK energy mix varies over time. This give us a figure of 842 tonnes of CO₂ saved per year, a significant increase on the previous year.</p> <p>Support for Transition Groups continues in the DVMWHS. Transition Belper actively promotes a green agenda for the area and has a steady number of around 800 subscribers to its e-bulletins. Overall, subscriber rates for our bulletins remained</p>

		<p>steady throughout 2021 / 2022 from April 2021 (798) to March 2022 (798). In addition, the Transition Belper Facebook page now has 1,300 followers (an increase of 200 over the year). In December 2020 the Transition Belper Group gained funds from National Lottery Community Funding (via the Transition Network). These funds were used to support a Community Conversation around a sustainable Belper, (held in October 2021) and to build a mobile solar power trailer unit which will be used to power the music PA at Belper Goes Green 2022.</p>
Climate change	18. Number of floods (ICOMOS INDICATOR 43)	<p>Objective 1.9 of the 2020 Derwent Valley Mills WHS Management Plan states: 'Ensure owners and partners have plans in place to accommodate unexpected change, such as natural disasters and climate change'. The Environment Agency has identified significant parts of the Derwent Valley floodplain which should remain undeveloped, thereby allowing for emergency water storage capacity in the event of flooding, helping to protect more vulnerable sites within the valley. Emergency Flood Plans are in existence, which refer to the World Heritage Site under "Special Considerations". These plans are regularly reviewed by the relevant Emergency Planning Authority.</p> <p>There was one serious flooding incident in 2021/22 within the DVMWHS, on 21 February 2022.</p>
MANAGEMENT		
WHS management (All in ICOMOS INDICATOR 7)	19. Management Plan	<p>A Management Plan does exist for the Derwent Valley Mills WHS. This was adopted in 2002, with amendments in 2003 and again in 2007 following the quinquennial review. A full review took place in 2011-13, and was adopted in 2015. Work on the latest iteration of the Management Plan began in 2018 and was endorsed by Historic England and DCMS, and sent on to UNESCO Centre in 2020.</p>
	20. Steering Group	<p>Management of the World Heritage Site was reviewed in 2018-2020, as part of the 2020 Management Plan revisions, and the Steering Group replaced with a new Strategic Board which is now operating.</p>
	21. Officer or WHS team	<p>Since March 2017 the coordination team has reported to the Head of Conservation, Heritage and Design at Derbyshire County Council. There are two full-time permanent posts of Heritage and Development Co-ordinators. The previously full-time post of Business Services Assistant was shared with Derbyshire's Environmental Studies Service, although the post holder retired in April 2022. It is hoped a third post will be established again soon, but resources will only allow for this role to be part-time. This is a considerable reduction in resources for the core team, which once had five full-time posts. Whilst much of the work of the team has been maintained, its long-term ability to provide an appropriate level of service is under strain. During the time covered by this report, one full-time officer was employed to deliver a NHLF/ACE funded Great Place Scheme for the DVMWHS until the post's funding ended in June 2021.</p>