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The Cornwall and West Devon Mining Landscape World Heritage Site Management Plan 2020-2025



Appendix 3: Selection methodology for World Heritage Site Attribute conservation 2019



United Nations Educational, Scientific and Cultural Organization



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Appendix 3: Selection methodology for World Heritage Site Attribute conservation 2019

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1 Prioritising the conservation of Attributes of 'Outstanding Universal Value'

The heritage assets which individually and collectively express the 'Outstanding Universal Value' (OUV), or international significance, of the World Heritage Site are described by the UNESCO World Heritage Committee and its advisory bodies as 'attributes'.

A number of factors are required to be considered in prioritising attributes of OUV for conservation and these are examined below. While the assessed condition of a site or feature deemed an attribute is a fundamental starting point in this process, other issues will have significant influence on the feasibility and viability of a particular attribute with regard to its conservation.

While the 'ICOMOS Guidance on Heritage Impact Assessments for Cultural World Heritage Properties' (2011) indicates, implicitly, that all attributes which either individually or collectively express OUV are of equal heritage importance, it is necessary to consider other issues such as the rarity of a particular site/feature (within the WHS and specific Area), ownership, and the availability of project funding when prioritising. All of these will be determining factors in the selection of which attributes are to be targeted for conservation.

Given this understanding, the prioritisation of attributes of OUV for conservation requires a selection methodology which can encompass condition and all the additional contributory elements which together contribute to a successful conservation project.

1.1 Conservation prioritisation: condition

In order to initiate a condition prioritisation exercise, a condition risk scoring methodology has been devised which includes the following factors;

- Rarity [of attribute] within the World Heritage Site
- Rarity [of attribute] within the World Heritage Site Area (A1 to A10)
- Vulnerability [of attribute]

Condition risk scoring methodology (from WHS Condition Surveys):

Rarity [of attribute of OUV] within WHS (score 1 to 5) + Rarity [of attribute of OUV] within WHS Area (score 1 to 5) x Vulnerability (score 1 to 5) = Final score (maximum possible final score: 50)

The vulnerability of an attribute is to be determined by the urgency by which an intervention is required, i.e. if loss/collapse/irreversible damage is thought to be imminent. The WHS Condition Surveys will be used as the initial means of assessing the degree of vulnerability of an attribute but the final assessment will be informed by the most up to date information available which may include site-specific structural surveys.

The attributes which achieve a high final score using the rarity/vulnerability formula above will subsequently be subject to further examination for their conservation potential, against the perceived achievability and sustainability of any given project (see section 3, below).

For the purposes of selection, only those attributes of OUV which score 35 or above will be assessed for prioritisation, with 50 being the maximum Condition Risk score available through this methodology.

1.2 Conservation prioritisation: project achievability and sustainability

Project achievability

• Feasibility - how realistic/achievable is the conservation objective?

Ownership - are the owners supportive of conservation?

Site status - is a site's statutory protection an enabling factor (where present)? Is the Attribute more likely to receive funding support from Historic England (and others) as it is included within the Historic England 'Heritage at Risk' register (where applicable for statutorily designated sites/features)?

• Viability – is the conservation objective deliverable financially?

Funding - is funding available (local authority, HLF, DEFRA, Highways England, etc.)?

Can a 'Not for profit' lead partner group/individual be nominated, if necessary? (e.g. as required for HLF Heritage Enterprise funding)?

Project sustainability

Is the Attribute to be conserved likely to be sustainable through the following;

• Contributing to community plans

Can funding for long term maintenance and conservation be secured through the contribution of an Attribute to community life - as expressed through neighbourhood plans and Cornwall Council's 'Place Shaping' agenda ('Cornwall's 19 towns')

Visual prominence of an Attribute – a highly prominent Attribute is more likely to contribute to community life and therefore feature within neighbourhood plans

• Having an economic end use

Is the Attribute suitable for a sensitive adaptive reuse that can generate income, which can be used in part for ongoing care and maintenance?

Having undertaken a condition risk assessment and obtained a scoring for the Attribute in question, this figure will then be used along with individual scorings for Project achievability and Project sustainability to arrive at the final prioritised ranking, as follows;

Condition risk (0 to 50) + Project achievability (score 0 to 30) + Project sustainability (score 0 to 60) = Final Score (maximum possible final score: 140)

The project achievability and sustainability scorings differ in range value to ensure an adequate numerical separation between the attributes being assessed for selection.

Project achievability and sustainability are to be assessed and given a weighting score in accordance with the categories set out below.

Project achievability

Achievability	Score: 0	Score: 10	Score: 20	Score: 30
Determining factors	No likely source of project capital funding in the foreseeable future	Project fit with live funding streams' criteria	Project fit with live funding streams and with a high percentage chance of success	Project capital funding in place

Project sustainability

Sustainability Sc	core: 0 Score: 10	Score: 20	Score: 40	Score: 60
Determining pro factors wit pla kno cha sup	core: 0Score: 10o clearPotentialroject fitsupport forrith NDconservationlans / noproject fromnown localParish Councihampion or/communityupportgroup or otheeyond WHSlocal orartnershipnational body	Some support identified for conservation project from Parish Council / community r group or other local or national	Score: 40 Strong local and / or national support for conservation project across multiple partners (local and/or national)	Score: 60 Attribute management and / or maintenance regime in progress / in place, with revenue funding secured to deliver this*

* The management requirements for an Attribute of OUV will be dependent on the type of Attribute in question, i.e. a 'monumentalised' Attribute such as a former arsenic calciner may have limited maintenance requirements and costs, while an adapted and occupied Attribute such as a former foundry building is more likely to require a higher level of maintenance. A management regime and revenue funding will also be required to deliver the latter.

In summary, those attributes of OUV which obtain the highest overall scorings using the above formulae in conjunction will constitute the prioritised conservation targets for the period of the Management Plan (2019-2024).

2 Attributes selected for prioritised conservation

For the purposes of ensuring that the prioritisation process was to be practical, all Unfavourable Condition attributes with a score higher than 35 (out of 50) were initially pre-selected for further consideration.

In accordance with the above, a total of 42 attributes of OUV were pre-selected for prioritisation filtering, which is 19.6 per cent of the 214 attributes assessed to be in an Unfavourable Condition in 2017 and some 4.2 per cent of the total number of attributes within the Site (991).

The Treffry Viaduct/Aqueduct and associated leat systems within the Luxulyan Valley have been added to the list of Unfavourable Condition attributes, as these have declined in condition significantly since the initial Condition Survey of 2010. Redruth Fore Street has similarly been included as concerns regarding its conservation and regeneration have been raised alongside an increased potential for targeted conservation.

The seven attributes selected for prioritised conservation during the period 2020-2025:

- The Wheal Busy Smithy Listed G II
 Condition risk (45) + Project achievability (30) + Project sustainability (40)
 Score 115
- The Luxulyan Valley and the Treffry Viaduct the latter a Scheduled Monument (Viaduct also on HAR 2018)
 Condition risk (45*) + Project achievability (20) + Project sustainability (40) Score 105
- Wheal Hearle west & east dual function engine houses, both undesignated
 Condition risk (35x2=70) + Project achievability (0) + Project sustainability (20) Score 90
- Redruth Fore Street historic streetscape with buildings Listed G II
 Condition risk (35*) + Project achievability (10) + Project sustainability (20)
 Score 65
- The Tolgus Arsenic Works Scheduled Monument (also on HAR 2018)
 Condition risk (40) + Project achievability (0) + Project sustainability (20)
 Score 60
- Blue Hills Pumping Engine House Listed G II
 Condition risk (35) + Project achievability (0) + Project sustainability (20)
 Score 55

^{*} Denotes attributes which have been given an updated condition risk scoring for the purposes of this prioritisation. This is in recognition of condition factors which have come to the attention of the World Heritage Site Office since the commissioned surveys were undertaken.

2.1 Selected attributes for prioritised conservation: scoring methodology

• Wheal Busy Smithy, Chacewater (Listed Grade II, HAR)

Understood to be the largest nineteenth century blacksmith's workshop on a metalliferous mine in the UK; excellent group value within Scheduled mine site. Funding for a detailed survey, conservation management plan and emergency stabilisation works has been secured as part of the A30 Environmental Designated Funds scheme.

Condition Survey risk (45) + Project achievability (30) + Project sustainability (40) Score: 115

• Luxulyan Valley + Treffry Viaduct/Aqueduct (Scheduled Monument, HAR)

Understood to constitute the only granite-built combined horse drawn tramroad and aqueduct in the UK. Associated leat systems within the Luxulyan Valley now deteriorating due to neglect in the absence of water flow, following the temporary closure of the aqueduct due to significant water leaks.

Conservation funding being sought from Cornwall Council to address the leat systems in light of the decision in 2018 not to proceed with the Luxulyan Valley HLF project.

NB. Condition Survey 2010 reports viaduct and leats in Favourable condition; The deterioration of the Treffry Viaduct and the Carmears Leat system following the initial condition survey of 2010 has necessitated a change of assessment from Favourable to Unfavourable and a revised risk score of 45 to reflect this.

Condition Survey risk (45) + Project achievability (20) + Project sustainability (40) Score: 105

• Wheal Hearle engine houses, Pendeen (west & east dual function engine houses, both undesignated)

Twin engine houses (west and east) in an advanced state of disrepair; structural collapse imminent for eastern engine house; occupy a prominent position adjoining the roadside from Penzance to Pendeen. Excellent group value and 'gateway' features of the A1 Area of the WHS. These are being treated as a single Attribute for the purposes of this prioritisation, with their respective condition survey risk scores being summed.

Condition Survey Risk score: 70 [35 x 2] (Rarity within WHS + Rarity within Area x Vulnerability = Final Score)

Condition Survey risk (70) + Project achievability (0) + Project sustainability (20) Score: 90

• Redruth Fore Street (multiple buildings, some Listed Grade II)

Condition Survey risk (35) + Project achievability (10) + Project sustainability (20) Score: 65

• Tolgus Arsenic Works (Scheduled Monument & Listed Grade II, HAR)

The most complete example of a Brunton pattern arsenic calciner extant

Condition Survey risk (40) + Project achievability (0) + Project sustainability (20) Score: 60

• Blue Hills Pumping Engine House, St Agnes (Listed Grade II)

Pumping engine house in an advanced state of deterioration; occupies a prominent position on the coast road at Trevellas Coombe. Good group value with detached boiler house and chimney (Listed Grade II separately)

Condition Survey risk (35) + Project achievability (0) + Project sustainability (20) Score: 55



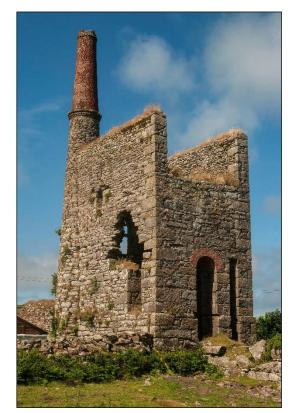






The two engine houses at Wheal Hearle, Pendeen – Photos: Adam Sharpe





The Commercial Hotel, Fore Street, Redruth – Photo: Ainsley Cocks





The Tolgus Calciner and Arsenic Works, near Redruth – Photos: Adam Sharpe



Blue Hills pumping engine house, St Agnes – Photo: Adam Sharpe



2.2 Attributes of OUV pre-selected for prioritisation assessment

NB. The three numbers in brackets [below] indicate, respectively, the rarity of the Attribute within the WHS, the rarity of the Attribute within the WHS Area, and the vulnerability of the Attribute, as ascertained through condition survey.

The acronym **HAR**, where given, denotes those high scoring attributes which also appear on the Historic England Heritage at Risk Register for 2019.

The distribution of the pre-selected attributes by WHS Area is as follows;

- Area A1: 8
- Area A5: 6
- Area A6: 3
- Area A7: 1
- Area A8: 1
- Area A10: 18

Area Attribute of OUV

- A10 New Consols arsenic works [5-5-5] HAR A10 Wheal Benney arsenic works [5-5-5] A10 Rumleigh (Brickworks/arsenic refinery) [5-5-5] A10 Greenhill arsenic refinery [5-5-5] A6 Wheal Busy Smithy [4-5-5] HAR Α5 Bennett's Fuseworks [5-4-5] A10 North Dimson (b/works/arsenic refinery) [5-4-5] Bealswood engine house (b/works) [5-4-5] A10 Α5 Tolgus arsenic works [5-5-4] HAR A10 Wheal Benney stamps/dressing floors [3-5-5]
- A10 Wheal Benney wheel pit [3-5-5]
- A10 Gawton Quay [4-4-5] HAR
- A10 Gunnislake Clitters Riverside EH and stack [5-5-4] HAR 40 Unfavourable Declining
- A10 Gawton crusher complex [4-4-5] HAR
- A10 Gawton arsenic refining complex [4-4-5] HAR
- A9 Caradon Coombe Daniel's dressing floors [4-4-5]
- A5 Hayle Railway Crofty Branch [4-4-5]
- A5 New Roskear (New Dolcoath) engine house [4-4-5]
- A5 New Roskear (New Dolcoath) comp. house [4-4-5]
- A5 New Roskear (New Dolcoath) buildings [4-4-5]
- A1 Chyoone smallholder's cottage [4-4-5]
- A1 Wheal Diamond Calciner [5-5-4]
- A1 Botallack materials house [4-4-5]
- A1 Ding Dong dressing floors [4-4-5]
- A6 Point arsenic works [5-5-4]
- A10 Devon Great Consols mine foundry [5-4-4]
- A9 Phoenix United barracks building [5-5-4]

Condition score + categorisation

50 Unfavourable Declining 50 Unfavourable Declining 50 Unfavourable Declining 50 Unfavourable No Change 45 Unfavourable Declining 45 Unfavourable Declining 45 Unfavourable Declining 45 Unfavourable Declining 40 Unfavourable No Change 40 Unfavourable No Change 40 Unfavourable No Change 40 Unfavourable No Change

- A6 Perran Foundry [5-5-4] HAR
- A9 Prince of Wales pneumatic stamps bases [5-4-4]
- A10 Devon Great Consols (Brass Iron Foundry) [5-4-4]
- A1 Geevor Pig Shaft stable 4-5-4 HAR
- A1 Geevor thickening tanks 5-5-3.5 **HAR**
- A1 Geevor candle store 5-5-3.5 HAR
- A9 Wheal Jenkin stamps engine house [4-3-5]
- A7 Blue Hills engine house [3-4-5]
- A1 Wheal Hearle (west) [3-4-5]
- A1 Wheal Hearle (east) [3-4-5]
- A10 Gawton engine house [3-4-5] **HAR**
- A10 New Consols pumping engine house [3-4-5] **HAR**
- A10 New Consols crusher engine house [3-4-5] **HAR**
- A10 New Consols stamps engine house [3-4-5] **HAR**
- A8 Treffry Viaduct/Aqueduct + leat systems [***] **HAR**

40 Unfavourable Recovering

- 36 Unfavourable Declining
- 36 Unfavourable No Change
- 36 Unfavourable Declining
- 35 Unfavourable Declining
- 35 Unfavourable No Change
- 35 Unfavourable Declining
- ****** Unfavourable Declining

3 Attributes of OUV included within the Historic England Heritage at Risk Register (2019)

Since the previous World Heritage Site Monitoring Report in 2012, a total of twelve attributes of OUV have been added to those previously included in the Historic England Heritage at Risk Register (HAR), while six sites have been removed.

In some instances, the addition of a site/feature to the HAR has been done particularly in order to further promote its conservation, through establishing it as a clearly perceived priority at a national level (e.g. Geevor Mine). The twelve additional sites are as below.

- Geevor Mine (Pendeen WHS Area A1)
- Methodist Church (St Just WHS Area A1)
- Late C18-C19 Mill Complex (Hayle WHS Area A2)
- Tolgus Arsenic Works (Redruth WHS Area A5)
- Wheal Busy (Chacewater Area A6i)
- Former Carharrack Methodist Church (Carharrack Area A6i)
- Remains of Carclew House (Mylor WHS Area A6ii)
- Gunpowder works at Kennall Vale (St Gluvias Area A6ii)
- Gunnislake Clitters Mine (Gunnislake WHS Area A10i)
- Holmbush Mine (Kelly Bray WHS Area A10i)
- New Consols Mine (Luckett WHS Area A10i)
- Guildhall and Police Station (Tavistock WHS Area A10ii)

Major conservation work has been undertaken at a number of attribute sites since 2012, including at King Edward Mine, Great Wheal Busy, and Perran Foundry. Buildings at King Edward Mine now have a new lease of life as museum interpretation, work space units and a café, while the principal pumping engine house and boiler house at Wheal Busy have been consolidated. The remainder of the Scheduled Monument at Wheal Busy remains on the list however pending further conservation. The adaptation of Perran Foundry to create dwelling space is mostly complete, which has removed two previous entries from the Registry, i.e. the New Pattern Shop and the Warehouse, although two Perran Foundry attributes remain on the HAR, the Dry Sand Shop and Engineers Shop.

The attribute sites that have been removed from the HAR Register since 2012 are as follows.

- Count House, blacksmiths' shop and miners' dry, King Edward Mine (Troon WHS Area A5)
- Weighbridge stores, assay office and brass machining shop at King Edward Mine (Troon WHS Area A5)
- Boiler house to winding engine house at King Edward Mine (Troon WHS Area A5)
- Great Wheal Busy engine house and mine buildings (Chacewater WHS Area A6i)
- New Pattern Shop, Perran Foundry (Perranarworthal WHS Area A6iii)
- Warehouse (formerly listed as office), Perran Foundry (Perranarworthal WHS Area A6iii)

The majority of the entries within the current HAR (2019) include a priority 'action' rating and these are included below with the individual entries, where given. The HAR principal vulnerability assessment is also included where available.

Key to Priority ratings:

For buildings at risk, the following priority categories are used as an indication of trend and as a means of prioritising action:

A - Immediate risk of further rapid deterioration or loss of fabric; no solution agreed

B - Immediate risk of further rapid deterioration or loss of fabric; solution agreed but not yet implemented

- C Slow decay; no solution agreed
- D Slow decay; solution agreed but not yet implemented

E - Under repair or in fair to good repair, but no user identified; or under threat of vacancy with no obvious new user (applicable only to buildings capable of beneficial use)

F - Repair scheme in progress and (where applicable) end use or user identified; functionally redundant buildings with new use agreed but not yet implemented

There are a total of 30 attributes of OUV included within the 2019 Register, which can be viewed online at: <u>https://historicengland.org.uk/advice/heritage-at-risk/search-register/</u>

WHS Areas A1 – A10 in Cornwall: 26 sites included in Register

WHS Area A10 in west Devon: 4 sites included in Register

CORNWALL

• WHS A1

Geevor Mine, St. Just, Area A1 – Scheduled Monument; Priority Category: not given; Principal vulnerability: collapse (*New entry since 2012 Monitoring Report*)

Methodist Church (former Wesleyan Chapel), St Just, Area A1 – Grade II* Listed Building; Priority Category: C; Principal vulnerability: not given (*New entry since 2012 Monitoring Report*)

• WHS A2

Late C18-C19 mill complex, ropeworks and associated water management system immediately east of Millpond Avenue, Foundry, Hayle - Scheduled Monument; Priority Category: not given; Principal vulnerability: Scrub/tree growth (*New entry since 2012 Monitoring Report*)

• WHS A4

Wesleyan Chapel, Porkellis, Wendron, Area A4 - Grade II* Listed building; Priority Category: F; Principal vulnerability: not given

• WHS A5

Rosewarne House (Gladys Holman House), Tehidy Road, Camborne, Area A5 - Grade II* Listed building; Priority Category: A; Principal vulnerability: not given

Sara's Foundry, Tolgus Place, Redruth, Area A5 - Grade II* Listed building; Priority Category: A; Principal vulnerability: not given

Tolgus Calciner, New Portreath Road, Redruth, Area A5 - Scheduled Monument; Priority Category: A; Principal vulnerability: not given.

With:

The Tolgus arsenic works (the wider site associated with the above calciner) 80 metres south east of East Tolgus House, Redruth, Area A5 - Scheduled Monument, Grade II Listed building; Priority Category: not given; Principal vulnerability: Other (*New entry since 2012 Monitoring Report*)

Carn Brea Castle, Carn Brea, Area A5 - Scheduled Monument; Priority Category: not given; Principal vulnerability: scrub/tree growth

• WHS A6

Wheal Busy, Chacewater Area A6i – Scheduled Monument, Grade II Listed Building; Priority Category: not given; Principal vulnerability: deterioration – in need of management (*NB. Great Wheal Busy engine house and boiler house consolidated since previous Monitoring Report in 2012*)

Former Carharrack Methodist Church, Church Street, Carharrack, Area A6i - Listed Building Grade II*; Priority Category: C; Principal vulnerability: not given *(New entry since 2012 Monitoring Report)*

Gunpowder storage complex at Kennall Vale, St Gluvias Area A6ii - Scheduled Monument; Priority Category: not given; Principal vulnerability: deterioration – in need of management

Gunpowder works at Kennall Vale, St Gluvias Area A6ii - Scheduled Monument; Priority Category: B; Principal vulnerability: deterioration – in need of management (*New entry – reassessed*)

Dry sand and green sand shop, Perran Foundry, Perran Wharf, Mylor Area A6ii - Grade II* Listed building; Priority Category: F; Principal vulnerability: not given (*NB. Conversion pending as part of wider site development*)

Engineers' Shop, Perran Foundry, Perran Wharf, Mylor, Area A6ii - Grade II* Listed building; Priority Category: D; Principal vulnerability: not given (*NB. Conversion pending as part of wider site development*)

Remains of Carclew House, Mylor, Area A6ii – Grade II* Listed building; Priority Category: A; Principal vulnerability: not given (*New entry since 2012 Monitoring Report; support for consolidation being sought by current owners*)

• WHS A7

Wheal Kitty 20th century tin processing works, St Agnes, Area A7 - Scheduled Monument; Priority Category: not given; Principal vulnerability: deterioration – in need of management

• WHS A8

Treffry Viaduct, Luxulyan Valley, Area A8i - Scheduled Monument; Priority Category: B; Principal vulnerability: not given

Charlestown Methodist Church, Charlestown Road, St Austell, Area A8ii - Grade II* Listed building; Priority Category: B; Principal vulnerability: not given

• WHS A9

South Caradon 19th century copper mine, Area A9 - Scheduled Monument; Priority Category: not given; Principal vulnerability: collapse

Medieval and post-medieval tin and copper mines with medieval field system on the middle and lower northern slopes of Caradon Hill, Linkinhorne, Area A9 - Scheduled Monument; Priority Category: not given; Principal vulnerability: plant growth

• WHS A10 (in Cornwall)

Gunnislake Clitters copper, tin, arsenic and wolfram mine, Calstock, Area A10i - Scheduled Monument, Grade II Listed building; Priority Category: not given; Principal vulnerability: Scrub/tree growth; (*New entry since 2012 Monitoring Report*)

Holmbush Mine: Windsor Lane rotative engine house with adjacent boiler house, loadings and platform, Stokeclimsland, Area A10i - Scheduled Monument, Grade II Listed building; Priority Category: C (C); Principal vulnerability: not given (*New entry since 2012 Monitoring Report*)

New Consols Mine: surface, buried and underground remains, Luckett, Stokeclimsland, Area A10i - Scheduled Monument, 5 Listed buildings, CA; Priority Category: not given; Principal vulnerability: collapse (*New entry since 2012 Monitoring Report*)

Prince of Wales Mine, at Harrowbarrow, Calstock, Cornwall, Area A10i - Scheduled Monument; Priority Category: not given; Principal vulnerability: vandalism

Okeltor 19th century arsenic, copper and tin mine, Calstock, Area A10i - Scheduled Monument; Priority Category: not given; Principal vulnerability: permitted development

DEVON

• WHS A10 (in west Devon)

Morwellham Quay: transport infrastructure, part of the water control system and a manganese mill, Gulworthy, Area A10i - Scheduled Monument; Priority Category: not given; Principal vulnerability: development requiring planning permission

Gawton mine complex, Gulworthy, Area A10i - Scheduled Monument; Priority Category: A; Principal vulnerability: not given

Gawton arsenic mine and flue, Gulworthy, Area A10i - Scheduled Monument; Priority Category: not given; Principal vulnerability: vehicle damage/erosion - extensive

Guildhall and police station, Abbey Place, Guildhall Square, Tavistock, Area A10ii - Scheduled Monument, Grade II* Listed building, CA; Priority Category: D; Principal vulnerability: not given (*New entry since 2012 Monitoring Report*)