

The Cornwall and West Devon Mining Landscape World Heritage Site

Ecological Audit Project – Final Report

Appendix 8

Suggested Monitoring Indicators

April 2026

1) All Areas

Table 1 – Indicators all areas

Indicator	Means of collection	Potential partners
The extent of bare ground on contaminated land	Habitat mapping or remote sensing	Plymouth/ Exeter University
Number of adits and shafts with openings	Site survey	Landowners
Number of derelict structures of different types e.g. tall chimneys	Site survey	Landowners
Bat populations associated with old buildings Pipistrelle (<i>Pipistrellus pipistrellus</i>), Noctule (<i>Nyctalus noctula</i>) and Brown Long-eared (<i>Plecotus auritus</i>)	Species records, Bat emergence surveys	Bat Conservation Trust, Cornwall and Devon Bat Group,s NBN/ ERCCIS/ ERICA
Bat populations associated with mine shafts and adits Brandt's (<i>Myotis brandtii</i>), Brown Long-eared (<i>Nyctalus noctula</i>), Daubenton's (<i>M. daubentonii</i>), Greater Horseshoe (<i>Rhinolophus ferrumequinum</i>), Lesser Horseshoe (<i>R. hipposideros</i>), Natterer's (<i>M. nattereri</i>) and Whiskered (<i>M. mystacinus</i>)	Species records, Bat emergence surveys	Bat Conservation Trust, Cornwall and Devon Bat Groups, NBN/ ERCCIS/ ERICA
Populations of solitary bees and butterflies	Species records, Butterfly and bee transects	Buglife, Cornwall Butterfly Conservation, Cornwall and Devon Moth Groups, NBN/ ERCCIS/ ERICA

Extent and pattern of routeways and their associated habitat mosaics	Habitat mapping with sample condition surveys	Cornwall Council Access Team, Tamar Trails (West Devon Borough Council)
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2) Area A1

Table 2. Indicators Area A1

Indicator	Means of collection	Potential partners
Extent of heathland	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust
Extent of coastal wildbelt	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust
Extent of pastureland and bracken	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust, Landowners
Leats on cliff slopes	Site survey	Natural England, Cornwall Wildlife Trust, The National Trust
Populations of rare and spatially limited bryophyte species	Species records, Site survey	Cornwall Bryophytes Group, NBN/ ERCCIS/ ERICA
Birds – heath, moor and coastal species	Species records, Bird survey	RSPB, Cornwall Birds, NBN/

		ERCCIS/ ERICA
Invertebrates associated with the Important Invertebrate Area	Species records, Invertebrate survey	Buglife, Cornwall Butterfly Conservation, Spalding Associates, NBN/ ERCCIS/ ERICA
Cornish hedges and semi-natural grassland of mineworkers' smallholdings	Hedges survey, Habitat mapping with sample condition survey	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust, FWAG, Landowners

Area A2

Table 3. Indicators Area A2

Indicator	Means of collection	Potential partners
Birds – especially wildfowl and waders	Species records, Bird survey	Cornwall Birds, RSPB, NBN/ ERCCIS/ ERICA, West Country Rivers Trust
Extent of wetland area, including open water, ponds and pools	Habitat mapping / Aerial photography analysis	RSPB, West Country Rivers Trust
Dune extent	Habitat mapping / Aerial photography analysis	The Towans Partnership
Estuarine Mudflats and Saltmarsh and associated invertebrates	Habitat mapping / Aerial photography analysis, Site invertebrates survey, Species records	RSPB, Buglife, NBN/ ERCCIS/ ERICA, West Country Rivers Trust

3) Area A3

Table 4. Indicators Area A3

Indicator	Means of collection	Potential partners
Non-vascular plants	Species records, Site survey	Cornwall Botanical Group, Cornwall and Isles of Scilly Federation of Biological Recorders, Cornwall Bryophytes Group, Plantlife, NBN/ ERCCIS/ ERICA
Heathland and wet woodland	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall Wildlife Trust, The National Trust
General farming landscape biodiversity	Habitat mapping with sample condition survey	Natural England, Cornwall Wildlife Trust, The National Trust, FWAG, Landowners
Coastal wildbelt for A3ii	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust
Unaltered chapels and their bat potential	Species records, Chapels survey	Bat Conservation Trust, Cornwall Bat Group, NBN/ ERCCIS/ ERICA
Extent of parkland gardens and estate woodland	Habitat mapping and sample site survey	Estates , National Trust

4) Area A4

Table 5. Indicators Area A4

Indicator	Means of collection	Potential partners
Invertebrates in collaboration with Buglife (over half of the Area overlaps with a B-Line)	Species records, Invertebrates survey, bee and butterfly transects	Buglife, Cornwall Butterfly Conservation, NBN/ ERCCIS/ ERICA
Bryophytes	Species records, Site Survey	Cornwall Bryophyte Group, NBN/ ERCCIS/ ERICA
Heathland and wetland habitats	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall Wildlife Trust, The National Trust

5) Area A5

Table 6. Indicators Area A5

Indicator	Means of collection	Potential partners
Due to the large urban area, citizen science of general biodiversity	Online survey	Residents of Camborne/ Pool/ Redruth, and surrounding villages
Rare plant species in wet woodland, lowland heathland and fen habitats	Species records, Site survey	Cornwall Botanical Group, Cornwall and Isles of Scilly Federation of Biological Recorders/ ERICA, Cornwall Bryophytes Group, Plantlife, NBN/ ERCCIS/ ERICA
Bryophytes around West Basset and Dolcoath	Species records, Site survey	Cornwall Bryophytes Group, Plantlife, NBN/ ERCCIS/ ERICA
The habitat composition of the 'Breas', heathland, grasslands and bracken extents	Habitats mapping/ aerial photography analysis,	Cornwall Council, Cornwall Wildlife Trust, ERCCIS
Cornish hedges and semi-natural grassland of mineworkers' smallholdings	Hedges survey, Habitat mapping with sample condition survey	Natural England, Cornwall Wildlife Trust, The National Trust, FWAG, Landowners
Large gardens (villas) and public parks	Site survey or online householder survey	Householders, Cornwall Council

6) Area A6

Table 7. Indicators Area A6

Indicator	Means of collection	Potential partners
Heathland and wetland habitats	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall Wildlife Trust, The National Trust, West Country Rivers Trust
Due to the large urban area, citizen science of general biodiversity	Online survey	Residents of Truro, Falmouth and surrounding villages
Bryophytes	Species records, Site Survey	Cornwall Bryophytes Group, Plantlife, NBN/ ERCCIS/ ERICA
Woodland	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall Wildlife Trust, The National Trust, West Country Rivers Trust
Leats	Site survey	Natural England, Cornwall Wildlife Trust, The National Trust, Cornwall Council, West Country Rivers Trust
Estate parklands and gardens	Habitat mapping and sample site survey	Estates
Unaltered chapels and their bat potential	Species records, Chapels survey	Bat Conservation Trust, Cornwall

		Bat Group, NBN/ ERCCIS/ ERICA
Cornish hedges and semi-natural grassland of mineworkers' smallholdings	Hedges survey, Habitat mapping with sample condition survey	Natural England, Cornwall Wildlife Trust, The National Trust, FWAG, Landowners

7) Area A7

Table 8. Indicators Area A7

Indicator	Means of collection	Potential partners
Heathland	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust
Extent of coastal wildbelt	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust
Bryophytes	Species records, Site Survey	Cornwall Bryophytes Group, Plantlife, NBN/ ERCCIS/ ERICA
Butterflies	Species records, Butterfly transects	Cornwall Butterfly Conservation, Buglife, NBN/ ERCCIS/ ERICA
Bees	Species records, Bee transects and site surveys	Bumblebee Conservation Trust, Buglife, NBN/ ERCCIS/ ERICA
Dragonflies and Damselflies	Species records, Site surveys	Riverfly Partnership, Freshwater Habitats Trust, British Dragonfly Society, NBN/ ERCCIS/ ERICA

Cornish hedges and semi-natural grassland of mineworkers' smallholdings	Hedges survey, Habitat mapping with sample condition survey	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust, FWAG, Landowners
Species assemblages associated with Trevaunance Harbour	Site survey, snorkel or dive survey	St Agnes Marine Group, Cornwall Wildlife Trust

8) Area A8

Table 9. Indicators Area A8

Indicator	Means of collection	Potential partners
Birds associated with the SPA, IBA and RSPB Priority Landscape at Charlestown harbour.	Species records, Birds survey	RSPB, Cornwall Birds, NBN/ ERCCIS/ ERICA
Marine species assemblages associated with Charlestown Harbour	Site survey, snorkel or dive survey	Friends of Par Beach, Cornwall Wildlife Trust
Ancient woodland habitats and species across the Luxulyan Valley and North Hill Wood.	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall Wildlife Trust, The National Trust, Plantlife, West Country Rivers Trust
Amphibian and reptile species associated with the china clay quarry and pits.	Species records, Individual Site survey	Cornwall Reptile and Amphibians Group (CRAG), NBN/ ERCCIS/ ERICA
Leat systems and canal	Site survey	Natural England, Cornwall Wildlife Trust, The National Trust, Cornwall Council, West Country Rivers Trust

9) Area A9

Table 10. Indicators Area A9

Indicator	Means of collection	Potential partners
Bryophytes	Species records	Cornwall Bryophytes Group, Plantlife, NBN/ ERCCIS/ ERICA, Site Survey
Heathland and Unimproved Grassland and associated	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall National Landscape, Cornwall Wildlife Trust, The National Trust, Plantlife
Moorland bird species.	Species records, Birds survey	Cornwall Birds, RSPB, NBN/ ERCCIS/ ERICA
Semi-natural grassland	Habitat mapping with sample condition survey	Natural England, Cornwall Wildlife Trust, The National Trust, FWAG, Landowners
Quarry cliffs, open water and associated wetland areas	Habitat mapping with sample condition survey	Natural England, Cornwall Wildlife Trust, The National Trust,

10) Area A10

Table 11. Indicators Area A10

Indicator	Means of collection	Potential partners
Woodland	Habitat mapping with a sample condition survey or SSSI condition proxy	Natural England, Cornwall Wildlife Trust, Devon Wildlife Trust, The National Trust, The Tamar Valley National Landscape, West Country Rivers Trust
Lichens	Site survey	Plantlife, South West Lichen group, The British Lichen Society
Marine species associated with stone quays	Site survey, snorkel or dive survey	Cornwall Wildlife Trust/ Devon Wildlife Trust, Tamar Valley National Landscape
Estuarine invertebrates	Site invertebrates survey	Buglife, West Country Rivers Trust,
Mining landscape associated invertebrates (see IIA in Area 10)	Invertebrate survey	Buglife, Cornwall Butterfly Conservation, Devon Butterfly Conservation, Spalding Associates, Cornwall Wildlife Trust, Devon Wildlife Trust

Estuarine Birds	Birds survey	DBRC, ERCCIS, ERICA, Cornwall Birds, Devon Birds, West Country Rivers Trust
Leats systems and canals	Site survey	Wild Tavi, Tamar Valley National Landscape, Cornwall and Devon Wildlife Trusts