

Phase 1 Habitat Mapping

Plan for Today

Start: 09hrs00

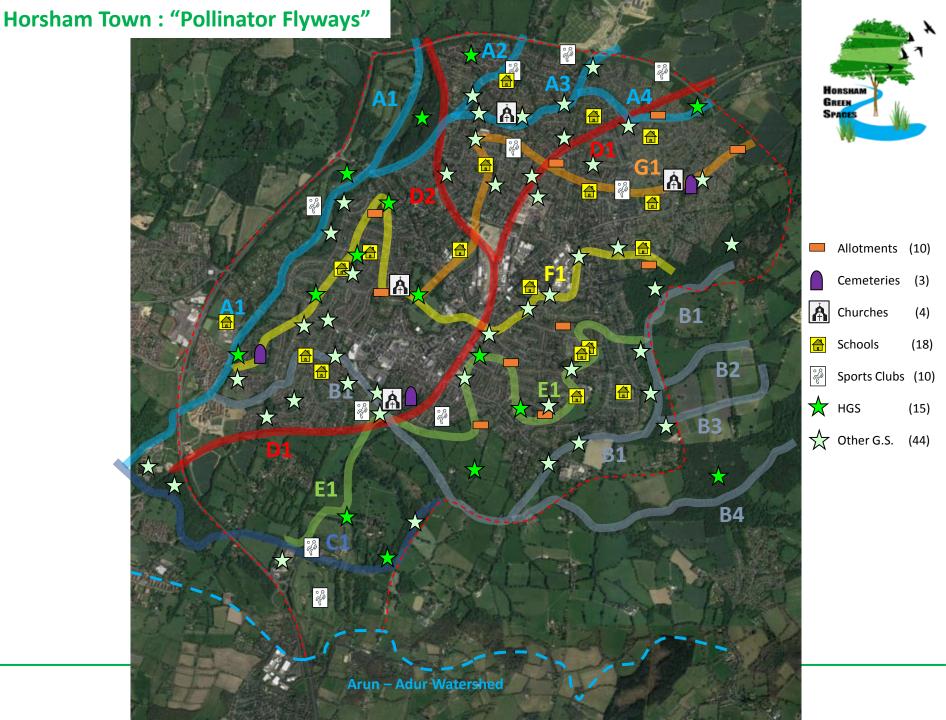
- Why are we doing this ?
- Different Habitat Mapping Systems
- Equipment
- Preparing the Base Map
- The Habitats for Phase 1 Mapping

Break: 10hrs00

• Fieldwork

Finish : 12hrs30

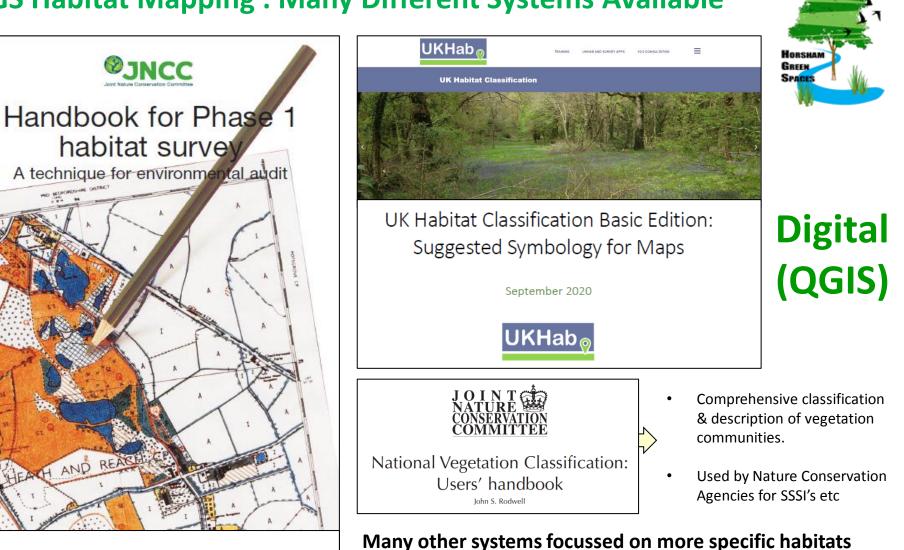






What Habitat Mapping System should I use ?

HGS Habitat Mapping : Many Different Systems Available



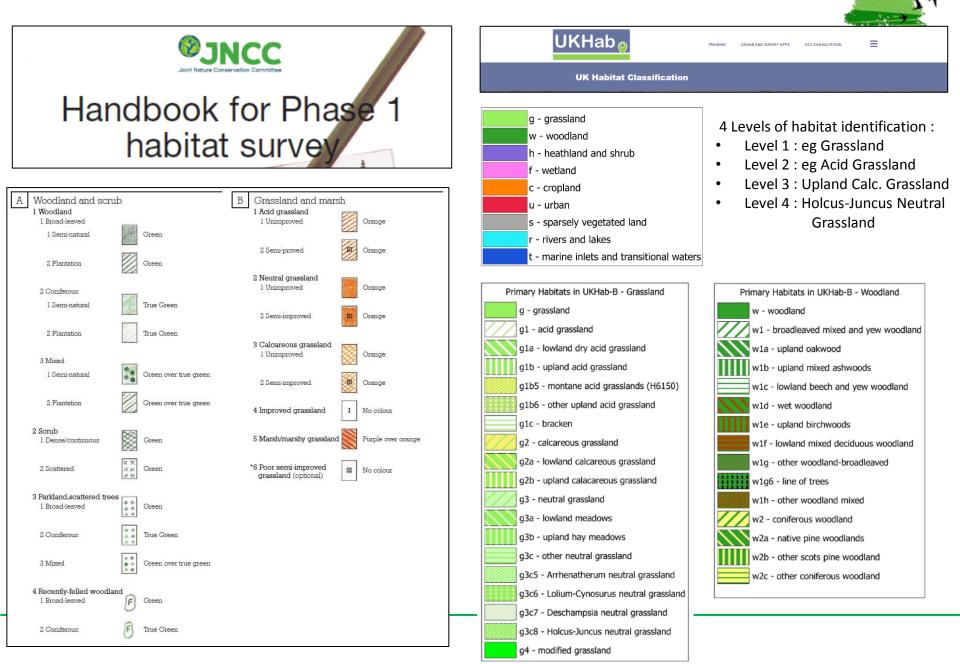
Revised reprint 2010 © JNCC 1993, 2003, 2004, 2007(2), 2010

Analogue

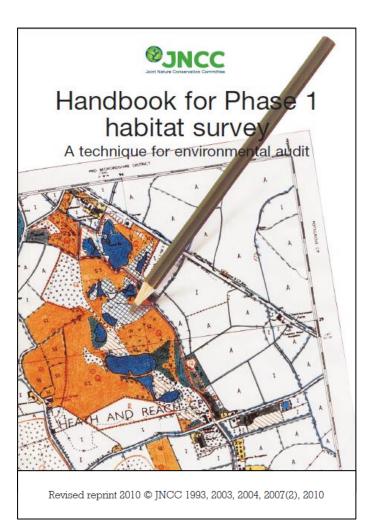
Hedgerow Surveying....

eg: River Habitat Surveying

JNCC Phase 1 Habitat Survey vs UKHab



JNCC Phase 1 Habitat Survey





- Time estimate for fieldwork: 80 640 ha per day
- Based on vegetation features
- Habitat maps using standard codes and colours
- Additional information with target notes

JNCC Handbook can be downloaded for free :

https://data.jncc.gov.uk/data/9578d07b-e018-4c66-9c1b-47110f14df2a/Handbook-Phase1-HabitatSurvey-Revised-2016.pdf

Or just google : Phase 1 Habitat Mapping

What do you need ?

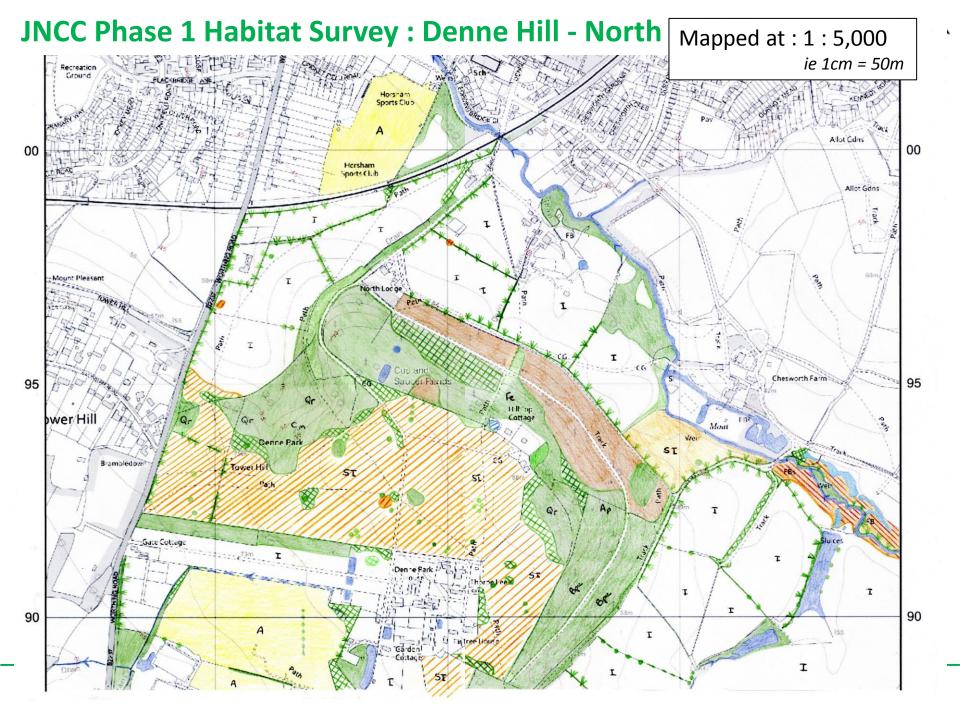




- Plant & tree identification guides : Book or App
- Permission from Landowner if working on Private Land



Preparing the Base Map What Scale should I map at ?



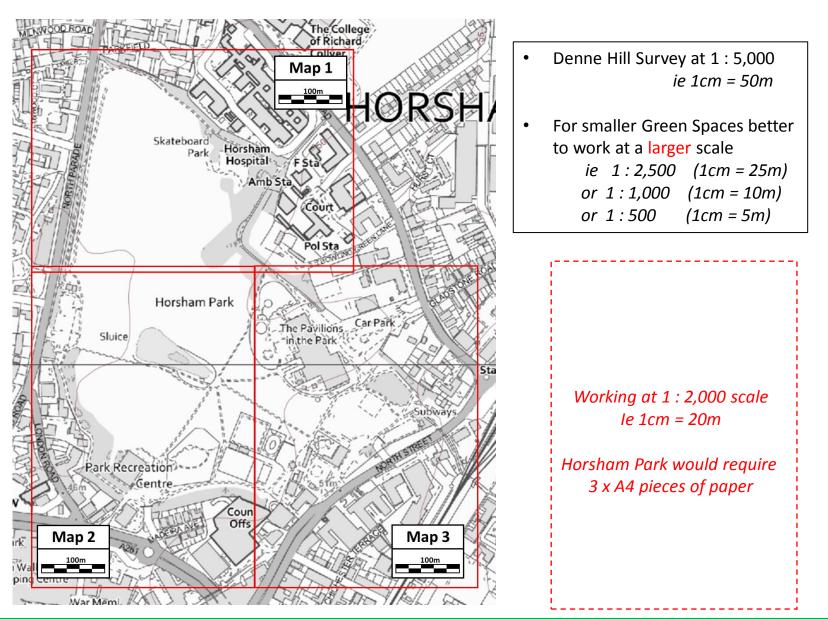
JNCC Phase 1 Habitat Survey : What Scale ?





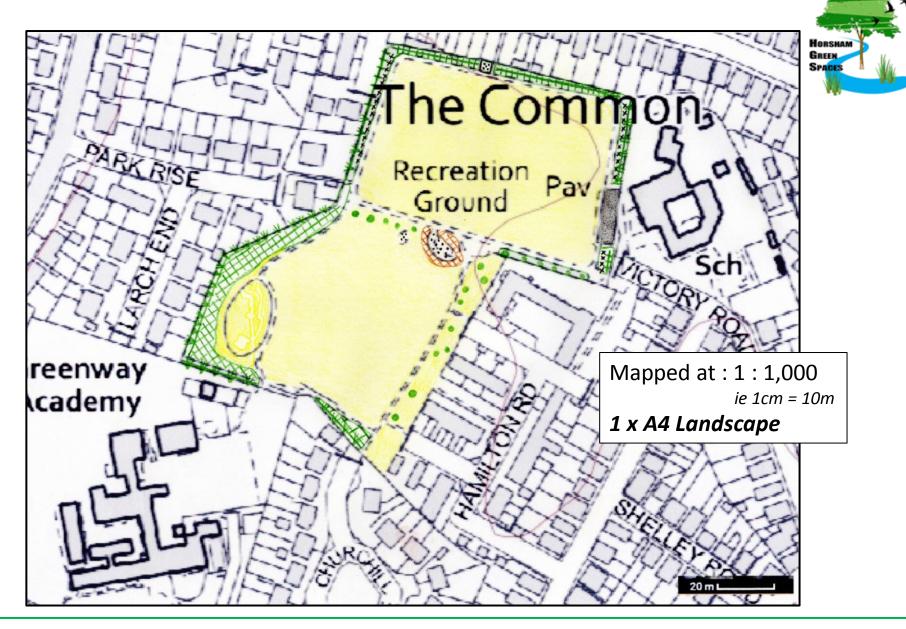
Horsham Town Map 1:10 000 scale. JPEG A1 portrait

JNCC Phase 1 Habitat Survey : What Scale ?



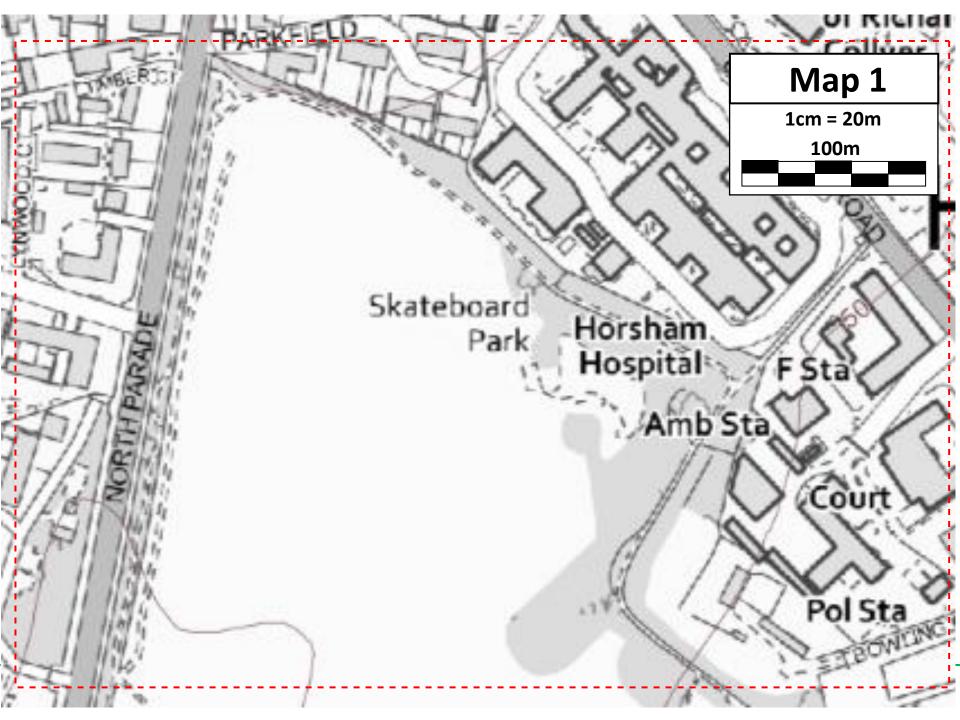


JNCC Phase 1 Habitat Survey : The Rec



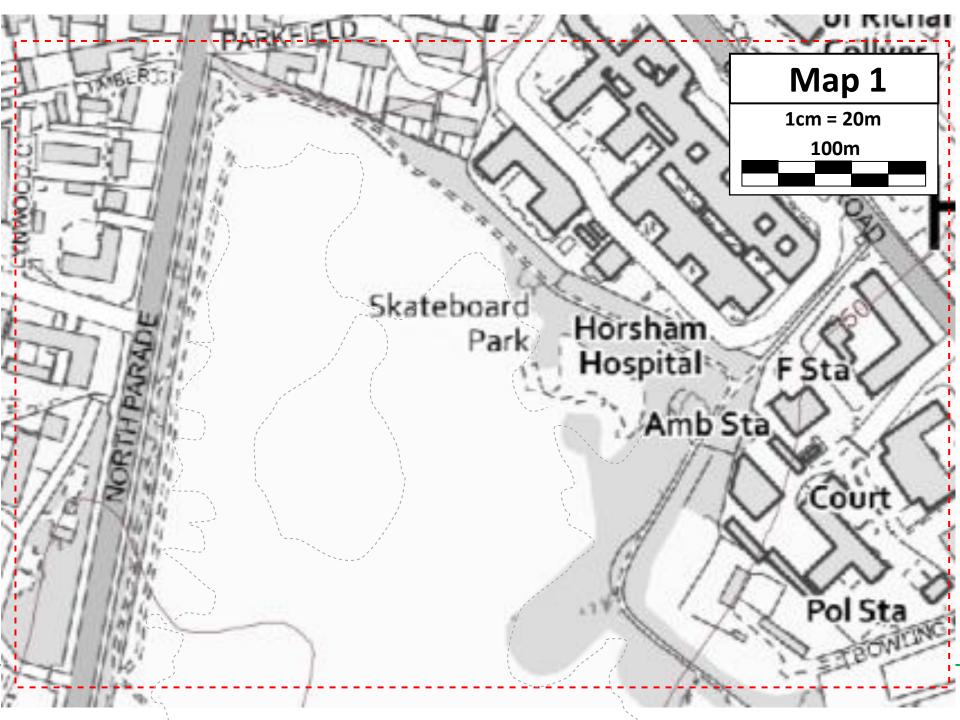


Preparing the Base Maps Aerial view if possible





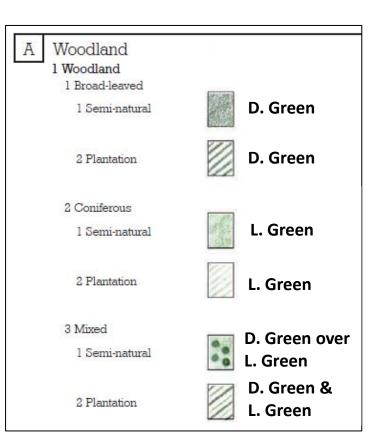






What are the Habitats that will be mapped ?

Phase 1 Habitats – A1 : Woodland



- Tree cover >30% of area
- Trees >5m in height

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- Dominant Tree & Understorey species to be coded if possible
 - Broadleaved : 10% or less conifer in canopy
 - **Coniferous** : **10%** or less broadleaved in canopy
 - Mixed woodland : 10-90% of either broadleaved or conifer in the canopy.

Target Note approx. Proportions.

- Semi-natural : <30% of trees are planted
- Plantation : >30% of trees are planted
- Tree cover <30% = Scattered trees (see below)



Phase 1 Habitats – A2 : Scrub



- Vegetation dominated by **Native Shrubs**, < 5 m tall,
- Occasionally with a few scattered trees.
- Code dominant species if possible.
- Should include :
- Bramble, Hawthorn, Blackthorn,
- Willow sp.
- Should not include : Hedges, Introduced Shrubs

2 Scrub 1 Dense/continuous



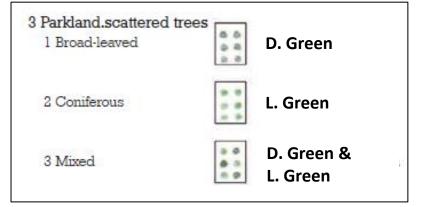
2 Scattered

D. Green

Phase 1 Habitats – A3 : Parkland & Scattered Trees







- Superimpose green dot over appropriate habitat colour eg semi-improved neutral grassland etc
- Green dot colour determined by :
 - Broadleaved : 10% or less conifer
 - **Coniferous** : **10%** or less broadleaved
 - Mixed woodland : 10-90%

Phase 1 Habitats – B : Grassland



and Marsh



• **Improved** heavily dominated by a few "agricultural" grass species, very few wild flowers and regularly grazed and improved with fertilisers, herbicides etc

Tends to be an homogenous green colour

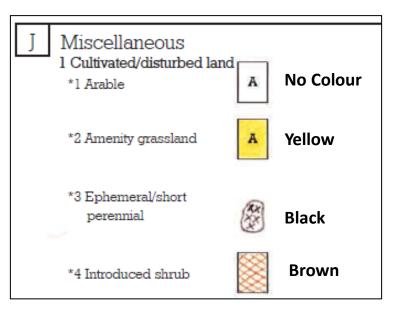
- Semi-improved = lots of wild flowers in the grass.
 Patchwork of different greens
- **Unimproved** doesn't exist in UK (apparently).
 - Acid : pH <5.5
 - Neutral : pH 5.5 to 7.0
 - Calcareous : pH >7.0
- B5 Marsh / Marshy Grassland
- Water table close to but below substratum most of the year

Phase 1 Habitats – J1 : Cultivated / Disturbed Land



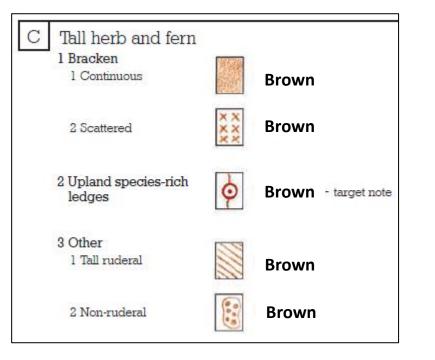
- Arable : cropland, nurseries, vegetable plots, flower beds
 - Amenity Grassland : Regularly mown Lawns, Playing Fields
 - Ephemeral/short perennial : derelict urban areas
 - Introduced Shrub : Non native introduced shrub Introduced shrub below woodland should be target noted.

eg. Invasive Rhododendrons



Phase 1 Habitats – C : Tall Herb & Fern

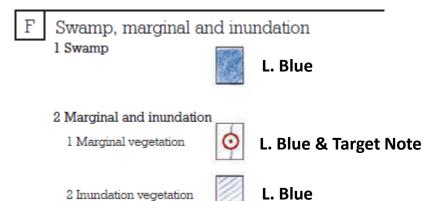




- Bracken Continuous or Scattered
- Tall Ruderal : tall (>25cm) perennial or biennial flowering plants : eq : Nettle, Willowherb etc
- Non-ruderal : Ferns

Phase 1 Habitats – F : Swamp, Marginal and Inundation

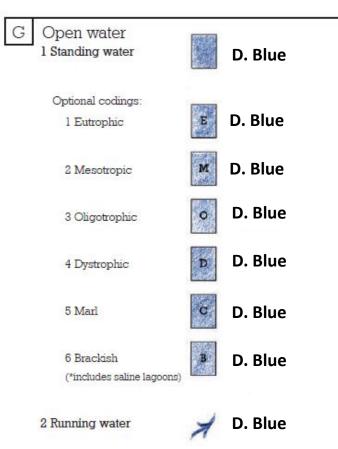




- Swamp : Generally in standing water most of the year.
 - Tall emergent vegetation typical of transition zone between open water and land.
 - Marginal Vegetation : Margins of lowland water courses. Usually <5m in width
- Inundation Vegetation : Unstable communities in areas of periodic flooding on pond, lake & river margins

Phase 1 Habitats – G : Open Water





- Water beyond the limits of swamp or emergent vegetation but may have free floating or floating leaved vegetation.
- Standing Water Ponds, Lakes etc
 - Eutrophic : pH usually >7, strongly discoloured with algae
 - **Mesotrophic** : pH neutral, some algae discolouration
 - Oligotrophic : pH <7, usually clear
 - **Dystrophic** : peat stained, pH v low (3-5 5-5)
- **Running Water** streams, rivers etc

Phase 1 Habitats – J2 : Boundaries



•	Only	concentrate	on	bound	aries	with	habitats
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- Intact Hedge dense enough to be stock proof
 - Native Species rich diversity of native woody species and a good hedgerow bottom flora.
 - Species Poor
- **Defunct Hedge** A hedge with gaps
- Hedgerow with Trees frequency of cross hatching to reflect density of trees.
- Dry Ditch dry most of the year
- Earth Bank -
- Fence, Wall etc Only map those supporting habitats

l Intact hedge		
*1 Native species-rich	M	D. Green
*2 Species-poor		D. Green
2 Defunct hedge		
*1 Native species-rich	ARAH	D. Green
*2 Species-poor		D. Green

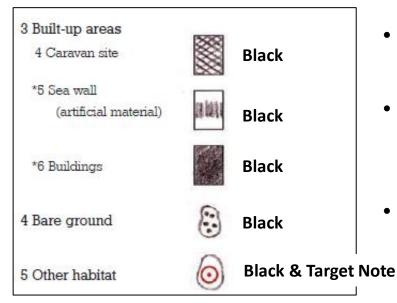
2 Boundaries (mapping optional)

3 Hedge and trees

*1 Native species-rich	AAA	D. Green
*2 Species-poor	++++	D. Green
4 Fence	++++	Black
5 Wall	-	Red Red
6 Dry ditch		D. Blue
*7 Boundary removed	***	Black
*8 Earth bank		Black

Phase 1 Habitats – J3 : Built-up Areas





- All pretty Self Explanatory
 - **Target Note** Very Important and is the connection between your map and your notebook.
 - Phase 1 system uses **abbreviations from latin names.** Appendix 3 in JNCC handbook.

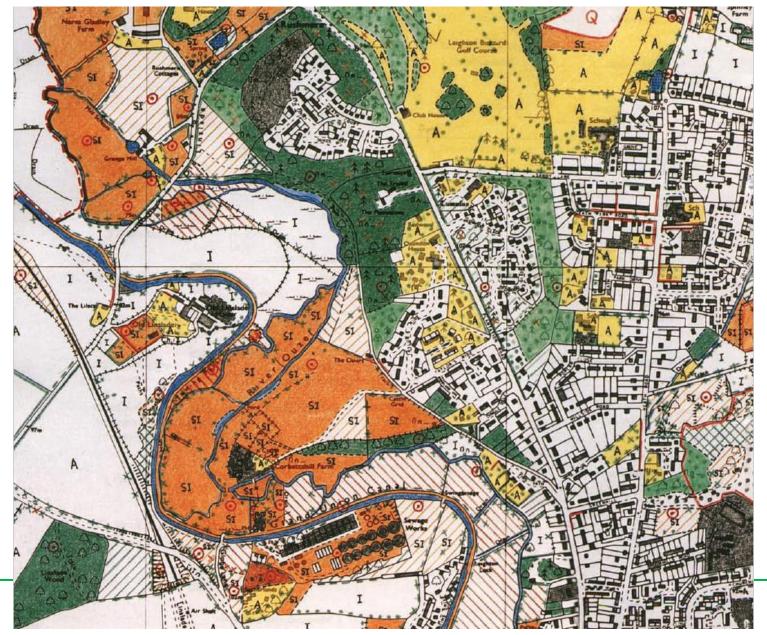
Phase 1 Habitats – Others



- Heathland
- Coastline
- Mire
- Rock Exposure & Waste

Phase 1 Habitats – End Result







Any Questions ?



Fieldwork