

Biodiversity Enhancement Plan For

New 3760sq.m portal framed building with ancillary office accommodation over two floors and service yard with operational and visitor parking including cycle and motor cycle parking at Ferney Bottom Farm, Grinlow Road, Harpur Hill, Buxton, Derbyshire SK17 9JH



Report HE 2120124 BEP

Haslam Ecology.

January 2024.

Existing Site Conditions.

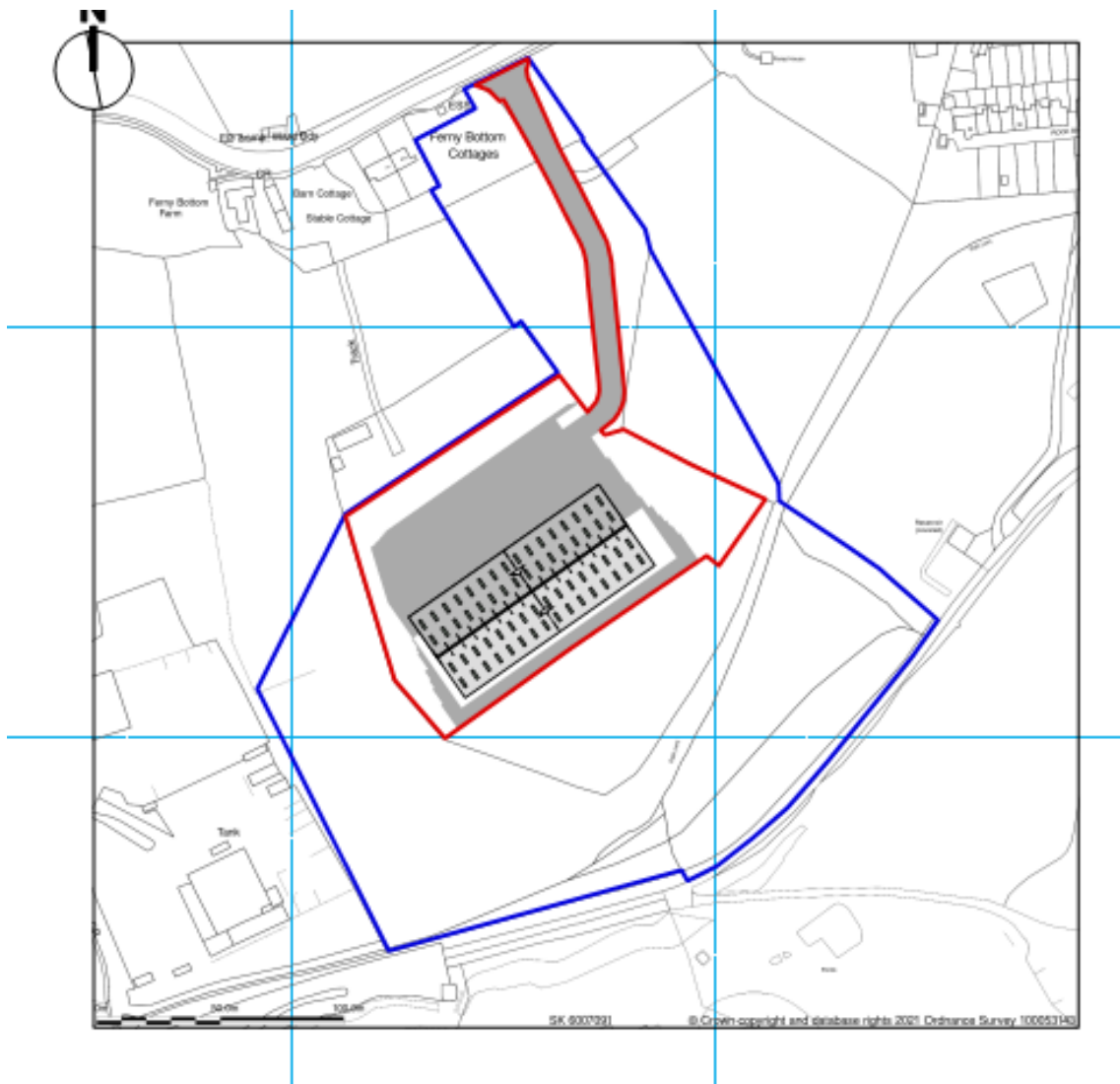
The plan below indicates the broad habitat types within the site and their condition in relation to species diversity.



Habitat Area (Base Line):

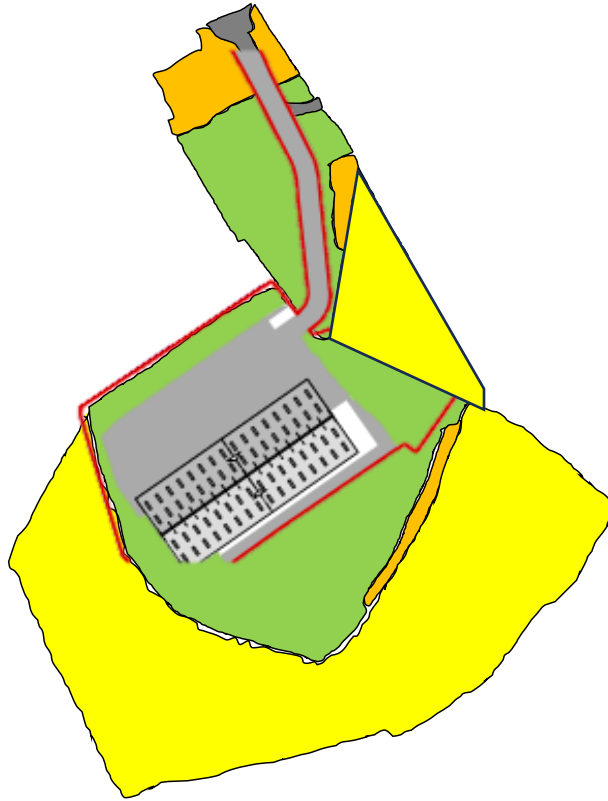
Habitat Type	Total Area (ha)	Within Local Wildlife Site
MG5(b)/MG6 Grassland	0.19	YES
MG6 Grassland	0.57	YES
CG2 Grassland	0.05	YES
Track	0.02	YES
MG5(b) Grassland	2.9	YES
MG6 Grassland	2.09	No
CG2 Grassland	0.06	No

Development Footprint.



Habitat Areas Affected By Development Footprint.

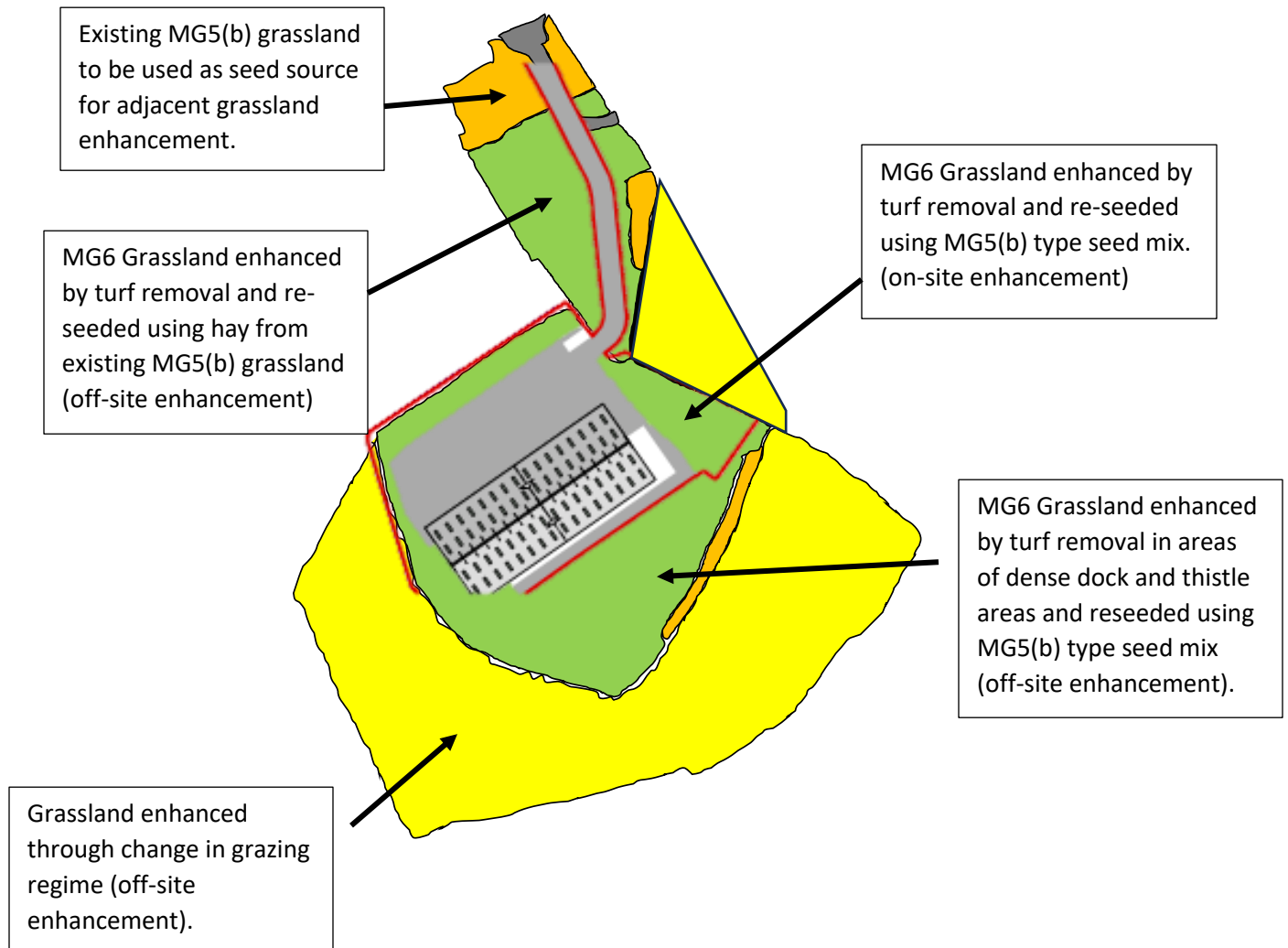
The plan below indicated the development footprint in relation to the vegetation types.



Habitat Type	Area Within Development Boundary (Red Line) ha	Area Outside Development Boundary (Blue Line) ha	Total Area (ha)	Within Local Wildlife Site
MG5(b)/MG6 Grassland	0.02	0.17	0.19	YES
MG6 Grassland	0.07	0.3	0.37	YES
CG2 Grassland	0	0.27	0.27	YES
Track	0.02	0	0.02	YES
MG5(b) Grassland	0	2.9	2.9	YES
MG6 Grassland	1.2	0.89	2.09	No
CG2 Grassland	0	0.06	0.06	No

Habitat Enhancement Areas and Specifications.

Note: areas outside the red line (development boundary) and within the blue line (within land ownership) are classed as off-site enhancements. Areas within the red line are classed as on-site enhancements.



Seed Source Grassland.

- All sheep to be removed by end of April to allow plants to flower and seed.
- Grassland area to be mown between mid-July and mid-August, cuttings collected and spread on prepared receptor site (adjacent grassland) within 72 hours of cutting. Alternatively, the seeds can be harvested (using a seed harvester) between mid-July and mid-August with the seeds spread on prepared receptor site (adjacent grassland) within 72 hours of collection.

- Grassland can be grazed (sheep) post seed/hay collection from September to April. Alternatively, the grassland can be mown with cuttings collected between mid-October and mid-November.

Grassland Enhancement.

- Strip turf to a depth of 150mm to remove nutrient layer (May-June)
- Roll stripped area to lightly compact upper soil level as the seed bed.
- Sow collected seed or spread hay from donor grassland in September.
- Graze (sheep) from July to March. Alternatively cut and collect from mid-July to mid-August and a second cut and collect from mid-October to mid-September.

Seed Mix.

- For areas that will be enhanced with a commercial seed mix, ground preparation is as for the grassland enhancement.
- Sow seed mix (MG5(b) mix or similar) in September at a density of 4g/m².
- Graze (sheep) sown areas from July to March.

Grazing Regime Changes (optional).

The surrounding grassland (within the Local Wildlife Site and in the current ownership) is sporadically grazed by sheep resulting in areas of rank grassland and loss of forbs. A change in the grazing regime will halt the loss of flowering plant diversity.

Graze the fields between September and March with a high stocking density (20 sheep per hectare) for the first year, then reduce stocking density to 10 sheep per hectare for subsequent years. If rank grassland areas persist after initial high-density grazing, then continue grazing at the high stocking density until rank grasses occupy a maximum of 20% of the area. Once this has been achieved then stocking density is reduced to 10 sheep per hectare to maintain the floristic diversity.

Biodiversity Gain.

The calculation of biodiversity units pre and post development using the Defra Biodiversity Metric 3.0 Calculation Tool can be found in the Excel file (separate). The calculation indicates that the above enhancement proposals will give a 41.87% change (increase).

Dave Haslam MSc MCIEEM

Haslam Ecology

07729 186361.

January 2024.