



Land off Wood Street
Wombwell
Barnsley
South Yorkshire
S73 0LH

Site Reference: NTQ 79668

Biodiversity Net Gain Calculation v2

February 2025

Contents

1. Introduction.....	3
2. Methodology	3
3. The Calculation	3
3.1. Baseline Conditions.....	3
3.2. Post Development Conditions	3
3.3. Results.....	4
4. Habitat Creation and Enhancement Specifications.....	5
5. Photographs.....	6
6. Maps.....	9

1. Introduction

CEP Telecoms in partnership with Rigby Jerram Ecological Consultants have completed a Biodiversity Net Gain calculation for the site access for Telecommunications mast NTQ79668 situated on land off Wood Street in Wombwell, Barnsley.

2. Methodology

The Biodiversity Net Gain calculation has been made using the 23 July 2024 version of the Statutory Biodiversity Metric Calculation Tool.

A UK Habitats survey of the site was undertaken on 21st January 2025. Habitats were mapped onto aerial photographs dated 16/5/2023 at a scale of 1:700. The results of this were digitised and are shown in Map 1.

3. The Calculation

3.1. Baseline Conditions

Table 1 shows the baseline habitat data for the development site, whilst Table 2 shows the off-site habitat baseline. There are no linear habitats within the planning boundary.

Table 1: Site Habitat Baseline Data

Habitats and areas			Condition	Baseline Habitat Units	Retention		
Broad habitat	Habitat type	Area (ha)			Area Retained	Area Enhanced	Units Lost
Heathland and shrub	Bramble scrub	0.0025	N/A	0.01		0.00	0.01
Woodland and forest	Other woodland; broadleaved	0.0047	Poor	0.02	0.0012	0.00	0.01
Heathland and shrub	Bramble scrub	0.0026	N/A	0.01	0.0014	0.00	0.00
Urban	Artificial unvegetated, unsealed surface	0.0066	N/A	0.00		0.00	0.00
Heathland and shrub	Bramble scrub	0.0027	N/A	0.01	0.0026	0.00	0.00
Grassland	Modified grassland	0.0617	Poor	0.25	0.0232	0.00	0.15
Cropland	Temporary grass and clover leys	0.0024	N/A	0.00		0.00	0.00
Urban	Allotments	0.001	Good	0.01	0.001	0.00	0.00
	Total Area	0.08		0.31	0.03	0.00	0.19

Table 2: Off-Site Habitat Baseline Data

Habitats and areas			Condition	Baseline Habitat Units	Retention		
Broad habitat	Habitat type	Area (ha)			Area Retained	Area Enhanced	Units Lost
Grassland	Modified grassland	0.0285	Poor	0.06	0.00	0.00	0.00
	Total Area	0.03		0.06	0.00	0.00	0.06

3.2. Post Development Conditions

Table 3 shows the on-site habitat creation (the access track and mast compound. Table 4 shows the data for the off-site habitat creation. The restrictive nature of the planning boundary means that off-site habitat creation is required to achieve the required 10% biodiversity gain. This is done by planting mixed scrub and a small area of native broadleaved woodland on the edge of the north side of the field in which the mast is located.

Table 3: On-Site Habitat Creation Data

Broad Habitat	Proposed habitat	Area (hectares)	Condition	Habitat Units Delivered
Urban	Artificial unvegetated, unsealed surface	0.0449	N/A	0.00
Urban	Artificial unvegetated, unsealed surface	0.0055	N/A	0.00
Urban	Developed land - sealed surface	0.0041	N/A	0.00
Total area		0.05	Total Units	0.00

Table 4: Off-Site Habitat Creation Data

Broad Habitat	Proposed habitat	Area (hectares)	Condition	Habitat Units Delivered
Heathland and shrub	Mixed scrub	0.0226	Moderate	0.17
Woodland and forest	Other woodland: broadleaved	0.0059	Moderate	0.03
Total area		0.07	Total Units	0.20

3.3. Results

Table 5 shows the headline results from the calculation. A net biodiversity gain of 16% is achieved by creating areas of mixed scrub and broadleaved woodland on the field margin.

Table 5: NTQ79668 Headline Results

On-site baseline	<i>Habitat units</i>	0.18
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
On-site post-intervention (Including habitat retention, creation & enhancement)	<i>Habitat units</i>	0.07
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
On-site net % change (Including habitat retention, creation & enhancement)	<i>Habitat units</i>	-60.26%
	<i>Hedgerow units</i>	0.00%
	<i>Watercourse units</i>	0.00%
Off-site baseline	<i>Habitat units</i>	0.06
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Off-site post-intervention (Including habitat retention, creation & enhancement)	<i>Habitat units</i>	0.20
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Off-site net % change	<i>Habitat units</i>	245.36%
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Combined net unit change (Including all on-site & off-site habitat retention, creation & enhancement)	<i>Habitat units</i>	0.03
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Spatial risk multiplier deductions	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Total net unit change (including all on-site & off-site habitat retention, creation & enhancement)	<i>Habitat units</i>	0.03
	<i>Hedgerow units</i>	0.00
	<i>Watercourse units</i>	0.00
Total on-site net % change plus off-site surplus (including all on-site & off-site habitat retention, creation & enhancement)	<i>Habitat units</i>	15.66%
	<i>Hedgerow units</i>	0.00%
	<i>Watercourse units</i>	0.00%
Trading rules Satisfied?	Yes ✓	

4. Habitat Creation and Enhancement Specifications

To achieve a biodiversity net gain off-site habitat creation and enhancement is required. This will be in the form of native scrub and woodland planting along the edge of the existing bramble scrub on the northern edge of the field in which the mast is located, as shown in Map 2.

The scrub in the bramble area will use the species mix in Table 6, whilst the scrub in the field will use the mix in Table 7:

Table 6: Native Shrub Species Mix

Hawthorn <i>Crataegus monogyna</i>	30%
Blackthorn <i>Prunus spinosa</i>	15%
Hazel <i>Corylus avellana</i>	15%
Bird cherry <i>Prunus padus</i>	10%
Dogwood <i>Cornus sanguinea</i>	10%
Elder <i>Sambuca nigra</i>	10%
Crab apple <i>Malus sylvestris</i>	5%
Guelder rose <i>Viburnum opulus</i>	5%

Table 7: Native Woodland Species Mix

Pedunculate oak <i>Quercus robur</i>	25%
Downy birch <i>Betula pubescens</i>	10%
Hawthorn <i>Crataegus monogyna</i>	10%
Hazel <i>Corylus avellana</i>	10%
Sycamore <i>Acer pseudoplatanus</i>	10%
Bird cherry <i>Prunus padus</i>	5%
Blackthorn <i>Prunus spinosa</i>	5%
Guelder rose <i>Viburnum opulus</i>	5%
Rowan <i>Sorbus aucuparia</i>	5%
Wild cherry <i>Prunus avium</i>	5%

Trees should be 40-60cm bare rooted transplants planted with a stake and tree tube at a spacing of 2.5m (1,600/ha). Each tree should have a biodegradable weed suppression mat.

5. Photographs



Photo 1 The western end of the access track



Photo 2 Looking east along the path at western end of access track route



Photo 3 Woodland along western section of access track route



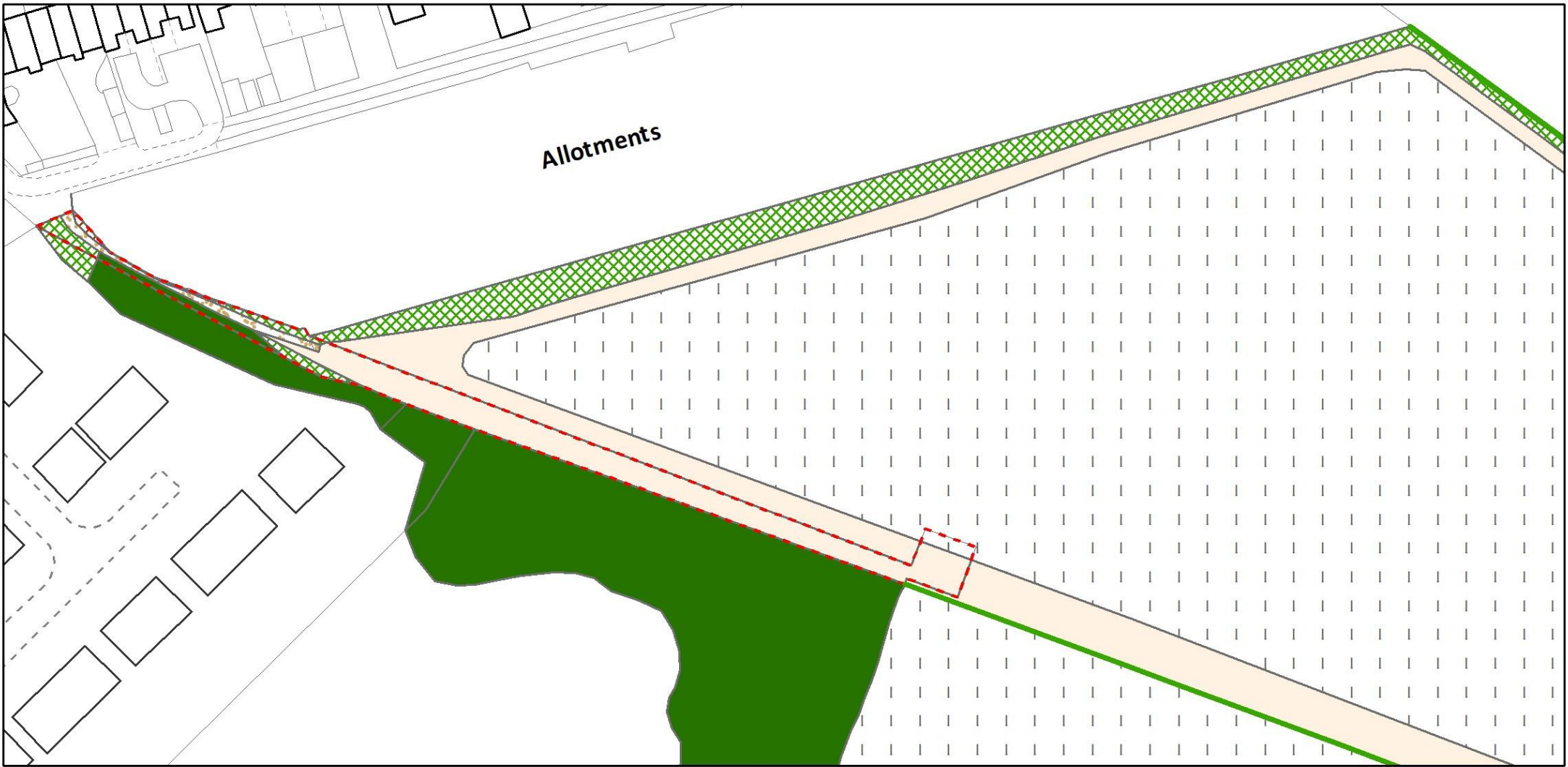
Photo 4 Where the path opens out into the field



Photo 5 Looking west along the route of the access track from the mast compound location



Photo 6 Looking east along the access track route towards the mast compound location



Allotments

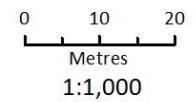
Land off Wood Street, Wombwell: NTQ 79668

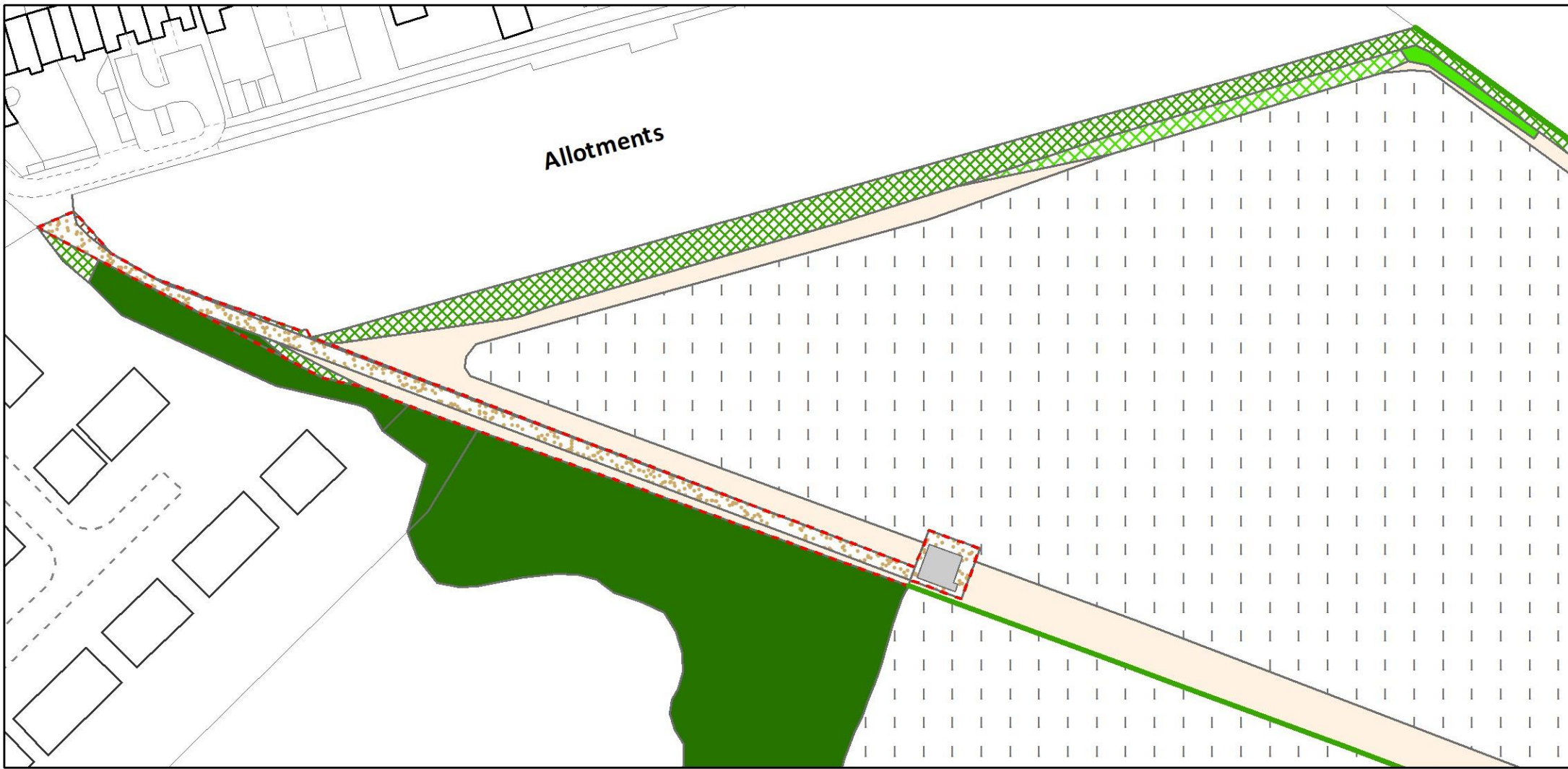
Map 1: Existing Habitats

-  Application boundary
-  c1b Temporary grass and clover ley
-  c1f7 Polyculture (allotments)
-  g4 Modified grassland
-  h3b Bramble scrub
-  u1c Artificial unvegetated - unsealed surface
-  w1g Other broadleaved woodland
-  Native hedgerow with trees

Survey by R Jerram 21 January 2025

Drawn by R Jerram 23 January 2025





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Map 2: Post Development Habitats

Application boundary

Retained Habitats

c1b Temporary grass and clover ley

c1f7 Polyculture (allotments)

g4 Modified grassland

h3b Bramble scrub

u1c Artificial unvegetated - unsealed surface

w1g Other broadleaved woodland

Native hedgerow with trees

Built Habitats

u1c Artificial unvegetated - unsealed surface

u1b Developed land - sealed surface

Off-site Habitat Creation

h3h Mixed scrub

w1g Other broadleaved woodland

Survey by R Jerram 21 January 2025

Drawn by R Jerram 6 February 2025

