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Biodiversity Net Gain (BNG) Update: Upper Brook Street, Kadans

Outline BNG implications for the overall site were initially provided in Brooks Ecological's Preliminary Ecological Appraisal report (report reference: ER-6550-01.2) with a corresponding Metric provided (BM-6550-01). The Site has since been split into two development parcels, roughly corresponding to northwestern and southeastern halves, as shown in Figure 1.

Kadans/ South Eastern parcel Biodiversity Net Gain Summary

The BNG calculations for the section of the Site occupying the southeastern half, now referred to as Upper Brook Street, Kadans are provided below, both in isolation and then considering the development and landscaping across both development parcels as a whole. The DEFRA Biodiversity Metric 3.1 has been used to calculate these changes in line with baseline calculations.

Figure 1 Redline boundary for BNG assessment, with southeastern portion outlined red and remaining northwestern area outlined yellow.

BNG calculations have been based on the baseline habitats as shown in Figure 2 and described in Brooks Ecological's PEA. The post development score has been calculated from Reform landscape architects planting strategy shown in Figure 3 (reference: UBS-RFM-XX-00-DR-L-0101PO8 Landscape General Arrangement) with corresponding post development habitats shown in Figure 4.

This is based on the current planting strategy but may not be considered the final calculation if proposals are changed. The scheme is currently predicted to achieve a 18.26% gain in habitat units. There is a substantial gain in hedgerow units due to the absence of hedgerow in the baseline, the details can be seen in the biodiversity metric Brooks Ecological reference: BM-8498-01.

Table 1 BNG calculations summary for the Kadans / south eastern plot.

Pre-development Baseline Units	Post Development Units *	Units Gained overall	Percentage gain overall
2.04	2.41	0.37	18.26%

Figure 2 Baseline of Kadans site area.

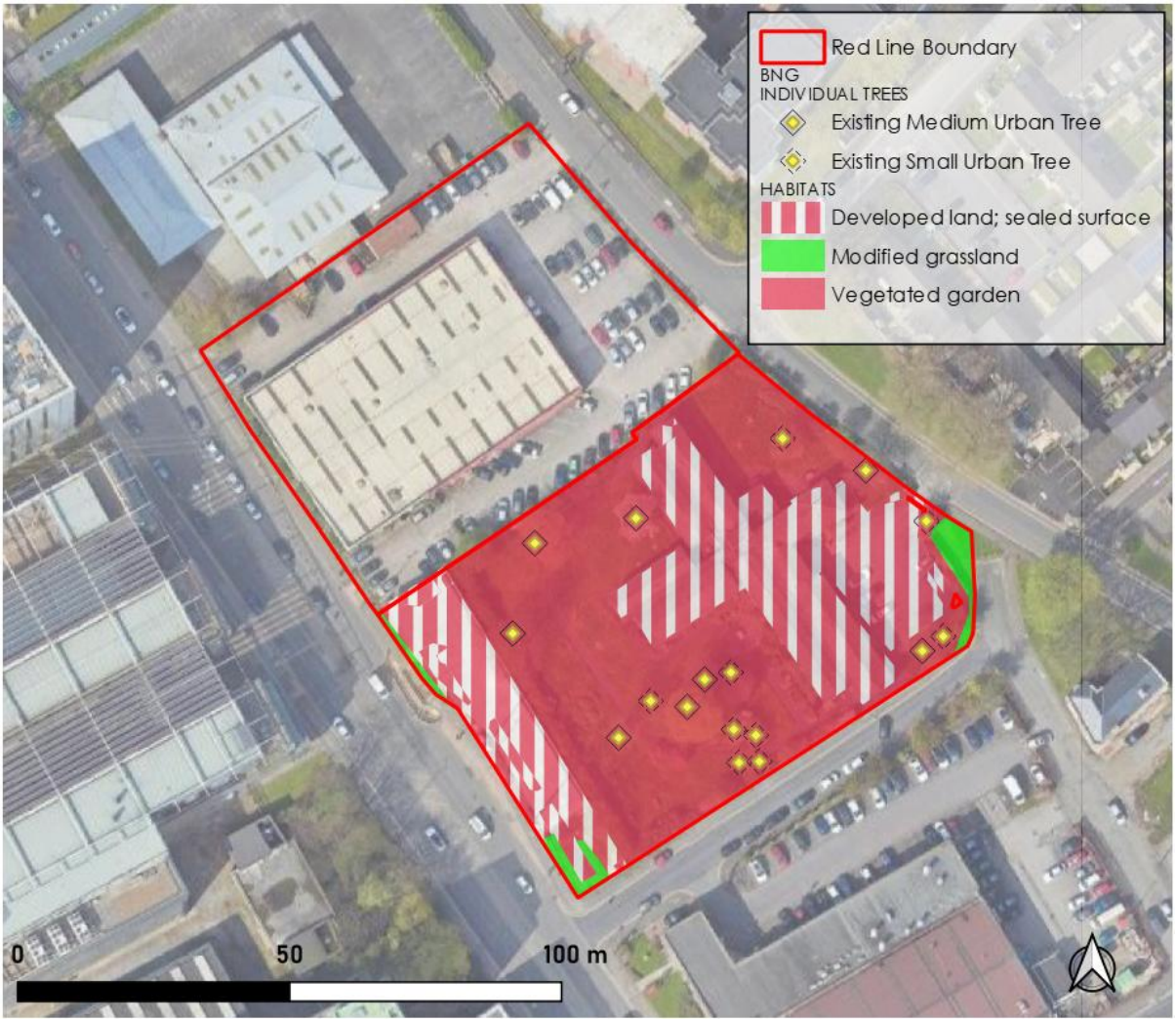

Figure 3 Landscaping Reform Landscape Architecture drawing UBS-RFM-XX-00-DR-L-0101 PO8

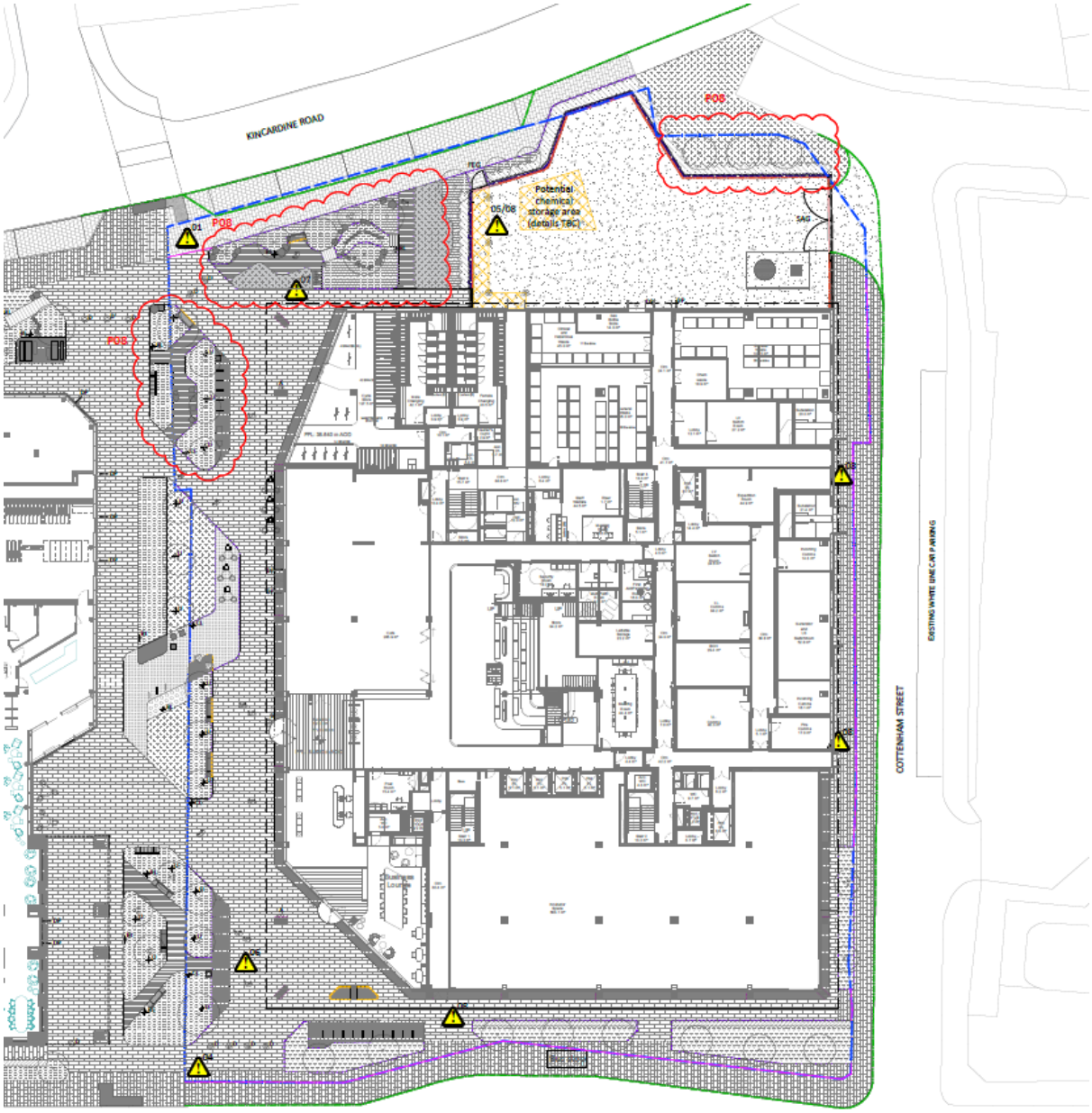

Figure 4 Assumed post development habitat from landscaping plan.

Overall Site Biodiversity Net Gain Summary

Given the two development plots were assessed as a single unit for planning purposes an overall net gain calculation encompassing the whole area has been provided. This has been based on the red line boundary shown in figures 5 and 6, with the predevelopment baseline shown in figure 5 and the post development habitats in figure 6, based on Reform landscape architects planting strategy (reference: 0968-RFM-XX-00-DR-L-0001 PO7 [Both Sites] & UBS-RFM-XX-00-DR-L-0101PO8 Landscape General Arrangement).

The scheme is currently predicted as a 54.13% gain in habitat units. There is a substantial gain in hedgerow units due to the absence of hedgerow in the baseline, the details can be seen in the biodiversity metric Brooks Ecological reference: BM-8498-02. The overall habitat unit gain has been calculated due to extensive tree planting across the Site which generates the most habitat units, with some smaller units made up of formal shrub planting and wildflower lawn areas.

Table 2 BNG calculations summary for the whole development area.

Pre-development Baseline Units	Post Development Units *	Units Gained overall	Percentage gain overall
2.06	3.18	1.12	54.13%

Figure 5 Baseline of entire site area.

Figure 6 Assumed post development habitat from landscaping plan for the entire site.