Outdoor permanent-bed block

24 permanent beds - each bed 0.75 m wide × 12.00 m long

Polytunnel growing layout

4 internal beds - each bed 0.75 m × 10.50 m

Bed allocation:

8 outdoor beds - household staples / storage crops

2 outdoor beds - fermentation crops

12 outdoor beds - CSA mixed vegetables / salads / bunching crops

2 outdoor beds - green manure / nursery overflow / contingency

8 tunnel beds total - tomatoes, cucumbers, peppers, basil, early salads, late greens

Net cropped area shown:

Outdoor permanent beds: 216 m²

Protected cropped area: 63 m²

Total net cropped area: 279 m²

Drawing label and Area

Dwelling footprint - 136 m²
Enterprise / agricultural building footprint - 141 m²
Open barn / tool / log storage allowance - 36 m²
Total built footprint - 313 m²

Access, parking, turning and main paths - 256 m²
Outdoor annual market-garden beds - 326.4 m²

Market garden + polytunnels productive footprint - 470.4 m²
Low-technology outdoor wasabi beds - 100 m²
Outdoor mushroom log / woodchip area - 150 m²

Orchard - 850 m²
Soft fruit - 700 m²
Total orchard + soft fruit - 1,550 m²

Existing broadleaved woodland / on-site LWS woodland retained - 3,829 m²
New coppice blocks - 2,250 m²
Dedicated wildflower meadow - 1,125 m²
Pollinator strips / beetle banks - 963 m²
Low-input rotational grazing / poultry pasture - 2,800 m²
Managed meadow / scrub-grassland mosaic / wildlife refugia - 6,683.2 m²

Clean-water irrigation / attenuation pond 1, 10 m dia. - 78.5 m²
Clean-water irrigation / attenuation pond 2, 10 m dia. - 78.5 m²
Greywater polishing cell PC1, 6 m dia., reed-planted lined gravel - 28.3 m²
Horizontal subsurface-flow reedbed RB1 - 25 m²
Clean-water ponds C1 + C2 total - 157.0 m²
Greywater planted gravel beds RB1 + PC1 total - 53.3 m²
Greywater drainage field DF1 (grass over four trenches, within the surrounding grassland on this plan; not additive) - 50.4 m²
Treated water store ES1 - 5,000 L, below ground

TOTAL 20,700 m²

Existing woodland / LWS woodland retained - 3,829 m²

Main action: retain, protect and manage.

Existing / compatible species palette:

Layer Species:
Canopy / trees - Oak, ash where healthy, sycamore, birch, alder/willow in wetter edges
Understorey - Hazel, hawthorn, holly, blackthorn, elder, dog rose
Ground flora / natural regeneration - Dog's mercury, wood avens, herb robert, ferns, bramble, ivy, nettle in controlled patches
Habitat features - Standing/fallen deadwood where safe, log piles, hibernacula, woodland-edge brash piles

New coppice blocks - 2,250 m²

Species:
Hazel - Main coppice, poles, biodiversity
Goat willow - Fast biomass, early pollinator forage
Grey willow - Basket willow - Brown, flexible rods, wet margins
Purple willow - Basketry/craft rods, pollinator value
Grey willow - Damp ground / swale edges
Alder - Damp edges, nitrogen association, biomass
Field maple - Edge diversity
Hawthorn - Coppice-edge structure
Blackthorn - Dense wildlife edge / blossom
Dog rose - Coppice edge / hips
Elder - Fast wildlife shrub, flowers/berries
Guelder rose - Wet edge / wildlife fruit

Mixed native coppice blocks managed on indicative 7-year rotation. Main species: hazel, willow, alder, field maple.

Orchard + soft fruit - 1,550 m²

Orchard trees:
Apples - Bardsey, Ashmead's Kernel, Egremont Russet, James Grieve, Discovery, Herefordshire Russet, Dabinett / Yarlington Mill if cider use needed
Pears - Conference, Concorde, Beth, Beurré Hardy
Plums / damsons - Denbigh Plum, Shropshire Prune / damson, Merryweather damson, Victoria plum
Cherries, limited - Morello or acid cherry in sheltered positions
Medlar / quince
Cobnut / hazel
Crab apple

Soft fruit:
Currants - Blackcurrant, redcurrant, whitecurrant
Gooseberries
Raspberries - Summer and autumn raspberries
Hybrid berries - Tayberry, loganberry, boysenberry
Blackberries - Thornless cultivated blackberry, plus retained wild bramble in H6
Strawberries
Rhubarb, elder

Orchard floor / guild plants:
Comfrey, red clover, white clover, yarrow, selfheal, birds-foot trefoil, chives, garlic chives, fennel in controlled positions, calendula, wild strawberry, cowslip, oxeye daisy

Outdoor annual market-garden beds - 326.4 m²

This is NOT a fixed landscape planting list; it is a crop rotation.

Rotation groups:
Roots - Carrot, beetroot, parsnip, turnip, radish
Alliums - Onion, garlic, leek, spring onion
Brassicas - Kale, cabbage, broccoli, cauliflower, sprouting broccoli, kohlrabi
Legumes - Peas, broad beans, French beans, runner beans
Cucurbits - Courgette, squash, pumpkin
Leaves / salads - Lettuce, spinach, chard, rocket, mustard leaves, oriental greens
Staples / storage - Potatoes, squash, onions, garlic, beetroot, carrots
Ferment crops - Cabbage, radish, cucumber, chilli, garlic, carrot
Green manures - Winter rye, vetch, clover, phacelia, buckwheat, mustard where appropriate

Outdoor annual beds:
No-dig / low-disturbance rotation for household vegetables, CSA produce, storage crops and ferment crops.

Polytunnels / protected cropping - 144 m²

Zone Crops:
Fruiting crops - Tomatoes, cucumbers, peppers, chillies, aubergines
Herbs - Basil, coriander, parsley, dill, chervil
Winter / shoulder salads - Winter lettuce, spinach, mustards, mizuna, claytonia, rocket

Propagation - Seedlings, plugs, cuttings

Microgreens - Pea shoots, sunflower shoots, radish, broccoli, mustard, red cabbage, coriander

Low-technology outdoor wasabi - 100 m²

Planting:
Wasabi, Wasabia japonica - Main crop
Native ferns around edges - Cool woodland-edge character, shade
Soft rush / sedges nearby, not in crop beds - Damp-edge planting

Shaded gravel / pebble prepared beds using clean harvested rainwater only.

Outdoor mushroom log / woodchip area - 150 m²

Substrate / species use:
Oak / beech / hazel logs - Shiitake, oyster, lion's mane where appropriate
Poplar / willow logs - Oyster mushroom
Woodchip beds - Wine cap / king stropharia
Shaded stacking racks - Log rotation and fruiting

Mushroom species:
Oyster, shiitake, lion's mane, wine cap / king stropharia.

Pollinator strips / beetle banks - 963 m²

Use two related mixes: a native perennial strip as the main permanent habitat, and small annual nectar strips near the market garden.

Permanent native pollinator strips:
Common knapweed, greater knapweed, oxeye daisy, yarrow, birds-foot trefoil, red clover, alsike clover, selfheal, field scabious, devil's-bit scabious, meadow vetchling, tufted vetch, common sorrel, cowslip, meadow buttercup, red campion, white campion, musk mallow, wild carrot, ribwort plantain.

Beetle-bank grasses:
Crested dog's-tail, red fescue, sheep's fescue, common bent, sweet vernal grass, limited cocksfoot for tussock structure.

Annual insectary strips near veg beds:
Phacelia, borage, buckwheat, calendula, cornflower, corn marigold, corn poppy, crimson clover, dill, coriander, fennel, parsley/chervil allowed to flower, poached egg plant.

Low-input rotational grazing / poultry pasture - 2,800 m²

Pasture grasses:
Timothy, meadow fescue, red fescue, crested dog's-tail, cocksfoot in modest amount, common bent, sweet vernal grass.

Herbs / legumes:
White clover, red clover, birds-foot trefoil, ribwort plantain, chicory, yarrow, selfheal, burnet, sheep's parsley / forage parsley where appropriate.

Management note:
Control ragwort, docks and thistles, especially near grazing.

Managed meadow / scrub-grassland mosaic / wildlife refugia - 6,683.2 m²

Rough meadow / grassland component:
Common knapweed, oxeye daisy, yarrow, birds-foot trefoil, red clover, meadow vetchling, selfheal, common sorrel, ribwort plantain, field scabious, meadow buttercup, yellow rattle in selected patches, red fescue, crested dog's-tail, sweet vernal grass, common bent.

Scrub pockets / wildlife edge:
Hawthorn, blackthorn, hazel, dog rose, field rose, guelder rose, dogwood, spindle, elder, crab apple, goat willow, grey willow in damp areas, retained bramble patches.

Habitat features:
Log piles, brash piles, hibernacula, tussocky grass, uncut overwintering margins, beetle banks, small scrub islands, deadwood piles, refuge stones.

Dedicated wildflower meadow - 1,125 m²

Native-meadow mix suitable for neutral / clay-loam grassland.

Wildflowers:
Common knapweed, greater knapweed, oxeye daisy, yarrow, birds-foot trefoil, red clover, meadow vetchling, tufted vetch, selfheal, field scabious, devil's-bit scabious, cowslip, meadow buttercup, common sorrel, ribwort plantain, rough hawkbit, betony, red campion along edges, yellow rattle.

Grasses:
Crested dog's-tail, red fescue, sheep's fescue, sweet vernal grass, common bent, quaking grass, smaller quantity of cocksfoot.

Key species:
yellow rattle is important because it weakens vigorous grasses and helps the meadow flowers establish.

Clean-water irrigation / attenuation ponds: 157.0 m² total

Marginal / damp-edge planting:
Marsh marigold, water mint, brookline, purple loosestrife, ragged robin, meadowsweet, yellow flag iris in controlled amount, gypsywort, soft rush, compact rush, lesser pond sedge, greater pond sedge in limited patches.

Aquatic / submerged plants
Hornwort, water crowfoot where suitable, water forget-me-not, frogbit in small amount if sourced safely.

Avoid: invasive pond plants, ornamental aquatic plants, duckweed-dominated water, greywater inflow, livestock access.

Greywater polishing cell PC1: reed-planted sub-surface gravel, no open water; see Greywater Design Report

Horizontal subsurface-flow reedbed: 25 m²

Functional planting:
Common reed as the main plant, with yellow flag iris, soft rush, water mint and sedges at edges.

Swales / nutrient swales:

Vegetated contour swales:
Meadowsweet, purple loosestrife, water mint, soft rush, compact rush, lesser pond sedge, ragged robin, brooklime, marsh marigold, red fescue, creeping bent.

Willow-planted nutrient swales / non-edible nutrient strips:
Osier willow, purple willow, goat willow, grey willow, alder, meadowsweet, soft rush, sedges, water mint.

For nutrient swales:
Willow-planted nutrient swale / non-edible nutrient strip.

Existing hedgerows / new hedge gaps:

Native hedgerow / gap planting:
Hawthorn, blackthorn, hazel, field maple, holly, dog rose, guelder rose, spindle, dogwood, crab apple, elder.

Hibernacula / log piles / deadwood features:

Materials / structure:
Untreated logs, brash, stones, broken terracotta, leaf litter, turf caps, buried log sections, small rubble voids, deadwood stacks.

Planting around them:
Rough grass, bramble retained in small patches, hawthorn/blackthorn scrub nearby, nettle in controlled patches, red campion on edges.

Apiary / bee hives:

Sheltered orchard-edge location with nearby forage from orchard blossom, soft fruit, pollinator strips, wildflower meadow and coppice edge.

Use hedge / screen planting to lift bee flight paths and separate the hives from paths, livestock and working areas.

A small clean bee waterer within the apiary so bees are not encouraged toward ponds or livestock water.



1 Landscape Plan SCALE 1:500 @ A0

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Site address
Land at Lower Wych, Lower Wych Road, Bronington, Wrexham, Wales, SY14 7JZ

07/10/2026

Revisions

A	10/07/2026	Initial issue
B	07/10/2026	Greywater system revised: coppice, paths and humanure area updated; area schedule updated; barn owl box and rough grassland added; 13 coppice trees inside root protection areas removed

Notes

1. Greywater treatment and discharge system (P1?, RB1, PC1, ES1, SP1, DC1, DF1) as the Greywater Design Report and drawings GW-01 to GW-04 of 7 October 2026. Where this plan or the Management Plan differ from them on the greywater system, the Greywater Design Report prevails.
2. The greywater polishing cell PC1 is a lined, reed-planted sub-surface gravel cell with no open water. Open water proposed on the site is the two clean-water irrigation / attenuation ponds C1 and C2; the existing pond P1 is retained and protected. No greywater enters any pond, swale or watercourse.
3. Rough grassland shown is retained and managed as rough tussocky grassland (barn owl foraging habitat). A barn owl box is shown on a retained tree at the woodland edge north-west of the drainage field, beside the rough grassland.
4. Root protection areas are those of the submitted arboricultural information. Thirteen coppice trees shown inside root protection areas on revision A are removed from the layout; no coppice planting within a root protection area.
5. Contours at 0.5 m intervals from the 2024 topographical survey; levels in m AOD. Dimensions in metres. Do not scale from this drawing for setting out.

Key

- Site boundary
- Greywater system (see GW-01 to GW-04)
- Barn owl box
- Root protection area
- Ponds (open water)
- Contours, 0.5 m interval (2024 survey)

Project North

N

Scale 1:500 As shown @ A0

Landscape Plan

A1.7 Revision B

Sheet No.