Brook End Design Decisions

Water

- Work on soil building as a priority & mulch areas deeply
- Install water butts & down pipes from all of the greenhouses to save time & energy
- Research local drought tolerant species
- Install a drip irrigation system in the pollytunnel to reduce risk of mildew and save time watering
- If replacing the pollytunnel plastic in the future, simultaneously install guttering to catch water
- Develop health & resilience of the pond and stream as a priority
- Reduce consumption of water
- Re-use some greywater from the kitchen to the home garden in a simple DIY system
- If developing a shower unit for camps & events, direct water to a constructed wetland above the pond for treatment & biodiversity
- Re-design area at the top end of the field to increase planting of perennials
- Emphasize the use of compost toilets at all events above inside water-based conveniences

Sewage

- Build second set of compost toilets on woodland/orchard edge to handle the load from more people and events over the summer
- Improve access to current compost toilet chambers for easier movement of materials
- Design a simple system near bender in field to collect urine, for example a straw pile in mesh, which a toilet caddy can be emptied into. This can then be moved around establishing trees.
- Hire a woodchipper once a year to create our own soak for the toilet systems, to keep materials more in cycle at Brook End.
- If any of the buildings get re-developed in the future (long term), consider alternative water treatment systems, such as a WET system and any additional compost toilets.

Orchard

- Increase the diversity of species, especially the diversity of plant families > Integrate new plants and groundcover to reduce the amount of grass
- Integrate nitrogen-fixing plants
- Integrate more multi-layered planting, such as fruit bushes
- Maintain regular mulch of young and establishing trees & plants
- Increase access to current fruit trees through grass management
- Make the pathways multifunctional
- Design around the piggeries and summerhouse in the orchard as a more zone 1 approach with culinary herbs for use at the barbecue for events, making the use of microclimates and the south- facing wall
- Aim to accurately identify current varieties of fruit
- Develop processing equipment to make the most of the orchard yields
- The long-term aim is to create an inspiring, well- designed, productive, healthy orchard that

is informative of permaculture to all who visit.

Pollytunnel

- Plant flowers in pollytunnel edges
- Install drip hose irrigation
- When replacing plastic, install gutter system to collect rainwater

Herbal resilience

- Develop a comprehensive herb garden and integrated medicinal plantings
- Develop a comprehensive home apothecary
- Dedicate energy to learning about plants & herbal remedies & using them at Brook End
- Promote & educate about herbal medicine
- Support the herbal community such local herbalists
- Grow herbs for local herbalists & others through Wild Heart Herbals

Biodiversity Goals

- Overall aim is to increase the number of native species visiting and residing in the garden
- Re-design & restore pond & wetland area near field
- Re-design & restore the stream
- Plant diverse guilds of plants for increased ecosystem resilience
- Identify wildflower bulbs for woodland edge
- Increase number of bee & insect forage species into the design
- Thin woodland to increase light penetration
- Look at vertical edges to maxmise micro habitats
- Install bat, bird & hedgehog boxes
- Take part in surveys for conservation efforts

Kitchen garden

- Ensure easy access to all areas, not just for harvesting but for any watering, feeding or general plant care.
- Design for increasing self-reliance
- Make use of organic wastes and place the compost bin close to the garden if not within it
- Ensure it is high yielding
- Design to reduce labour spent of tasks such as watering or weeding through effective design strategies
- Increasing environmental stability
- Create multifunctional walks
- Design for the self-management of weeds, pests and diseases
- Design for reduced watering and weeding
- Ensure we are building & enhancing the soil
- Designing always for permanence and abundance, making the least change for the biggest effect and implementing changes for the long term

Harvesting Systems

- Choose long lasting varieties for storing
- Ensure wherever produce is being stored, that it is accessible and memorable so that it is used regularly
- Make harvesting sessions multifunctional by having one prepare and clean up session
- Be aware of seasonal changes and design in time allowances for certain activities, such as apple harvesting
- Aim to make the most enjoyable, nutritious items that the family will use and love
- Experiment with flavours & diversity
- Prioritize items that are hardest to get hold of or most expensive to buy
- Celebrate the abundance!