



## ECOSYSTEMS SERVICES ANALYSIS

New Timber-Framed three-bay garage, brick retaining wall and relocation of existing oil tank.

St. Peters Well, Lodsworth

### 1. Purpose

This Ecosystems Services Analysis has been prepared to comply with Policy SD2 of the South Downs Local Plan which is the National Park Authority's policy on Ecosystem Services.

### 2. Method

The approach taken has complied with South Downs National Park guidance and followed the staged process which is as follows:

- Stage 1: Consider the environmental constraints
- Stage 2: Look at the criteria listed in policy SD2
- Stage 3: Select the Ecosystem Services action

The applicant has been consulted on these and has identified the following benefits in support of their application.

### 3. Ecosystems Services Actions

Actions	Relevant Policy SD2 Criteria
Use permeable surfacing; relaying paths in brick	A, C, D
Increase areas of planting including a diverse mixture of native species to intercept surface water; (Please see chart below)	A, C, D, E
Create a compost heap to compost waste and improve soils;	B, G
Select plants to provide a variety of food for wildlife e.g. nectar rich/berries/grasses; (Please see chart below)	B, E, F, I
Protect and retain existing mature trees;	B, F, I
Safeguard wildlife habitats and protected species;	B
Use new planting to connect up nearby habitats;	B, F, I
Increase tree cover ensuring trees are native and locally characteristic; (Please see chart below)	B, F, I, J
Ensure that linear features on site such as watercourses, hedgerows, boundary features or other planned landscaping is friendly to wildlife. (Please see chart below)	A, B, F, G
Other...	

## SDNPA Policy Outcomes

- a) Sustainably manage land and water environments;
- b) Protect and provide more, better and joined up natural habitats;
- c) Conserve water resources and improve water quality;
- d) Manage and mitigate the risk of flooding;
- e) Improve the National Park's resilience to, and mitigation of, climate change;
- f) Increase the ability to store carbon through new planting or other means;
- g) Conserve and enhance soils;
- h) Support the sustainable production and use of food, forestry and raw materials;
- i) Reduce levels of pollution;
- j) Improve opportunities for peoples' health and wellbeing;
- k) Provide opportunities for access to the natural and cultural resources which contribute to the special qualities.

Below, list of plants that were proposed and approved as part of the extension and alterations at St Peters Well (SDNP/19/06129/HOUS & SDNP/19/06130/LIS) with the associated benefits to landscape amenity, local wildlife and the natural environment to the site as a whole

Plant List						
Trees	Flowers and Fruit	Butterflies and Bees	Ornamental Specimen	Winter Interest	Birds	Bugs
Prunus Avium	*					
Pruus Padus		*	*			
Malus Sylvestris	*		*			
Sambucus Nigra Black Lace					*	
Carpinus betulus						
Cercis canadensis Forest Pansy	*		*			
Cornus alternifolia			*	*		
Sorbus Aria			*			
Amelanchier canadensis	*		*		*	
<b>Shrubs</b>						
Cornus sanguinea Winter Flame				*		
Viburnum opulus					*	
Pittosporum Silver Queen				*		
Pittosporum Golf Ball			*	*		
Hebe Wiri Charm	*	*		*		
Choisya Aztec Pearl	*			*		
Viburnum Plicatum	*		*			
Viburnum Carlessii	*	*				
Sarcococca reversa	*			*		
Caryopteris candonensis	*	*				
Miscanthus sinensis Morning light				*	*	
Dryopteris felix mas				*		*
Buddleja Black Knight	*	*				
Salvia Hot Lips	*	*				
Hydrangea Limelight	*	*				
Syringa microphylla	*	*	*			
Aster frickartii Monch	*	*				
Lavender Munstead	*	*		*		
Ceanothus Puget Blue	*	*				
Salvia Royal Bumble	*	*				
<b>Perennials</b>						
Salvia nem. Caradonna	*	*				
Geranium Rozanne	*	*				
Phlox white Admiral	*	*				
Hellebores orientalis	*			*		
Liriope muscari Big Blue	*			*		
Veronicastrum Fascination	*	*				
Delphinium	*	*				
Lupin						*
Valeriana officinalis	*	*				*
Dahlia	*	*				
Geum sanguineum	*	*				*
<b>Hedges</b>						
Taxus baccata				*		
Pittosporum Silver queen				*		
Fagus sylvatica purpurea				*		
Carpinus betulus				*		
Prunus lusitanica				*		
<b>Bulbs</b>						
Narcissi Jack Snipe	*					
Muscarii latifolium	*					
Tulips	*					
Daffodils	*					
Allium Purple Sensation	*	*				
Allium Christophii	*	*				
<b>Climbers</b>						
Solanum jasminoides	*	*		*		
Trachelospermum Jas.	*	*		*		
Rosa Generous Gardener	*	*				
<b>Roses</b>						
R. Gertrude Jekyll	*	*				
R. Caradonna	*	*				
R. Margaret Meryll	*	*				