

**Table S1.** Native species of vascular plants recorded in the three surveys in Bankside Scientific Reserve. (\* indicates species found only in the riparian zone of the creek running through the southern corner of the reserve; ? indicates unsure of species identification).

Family	Indigenous species	Molloy 1970	Jenson and Shanks 2005	This study 2013	2005–13
Apiaceae	<i>Centella uniflora</i>	x			
	<i>Lilaeopsis</i> sp.	x			
	<i>Oreomyrrhis rigida</i>	x			
Araliaceae	<i>Hydrocotyle novae-zelandiae</i>	x			
Asteraceae	<i>Celmisia gracilentia</i>	x			
	<i>Cotula perpusilla</i>	x			
	<i>Cotula</i> ‘minitooth’	x			
	<i>Craspedia uniflora</i>	x			
	<i>Crassula sieberiana</i>	x			
	<i>Euchiton japonicus</i>	x			
	<i>Gnaphalium japonicum</i>	x			
	<i>Helichrysum filicaule</i>	x			
	<i>Leptinella pusilla</i>	x			
	<i>Microseris scapigera</i>	x			
	<i>Raoulia australis</i>	x			
	<i>Raoulia hookeri</i>	x			
	<i>Raoulia monroi</i>	x			
	<i>Raoulia subsericea</i>	x			
Campanulaceae	<i>Hypsela rivalis</i>	x			
	<i>Pratia angulata</i>	x			
Caryophyllaceae	<i>Wahlenbergia gracilis</i>	x			
	<i>Colobanthus brevisepalus</i>	x			
	<i>Scleranthus brockiei</i>	x			
	<i>Scleranthus uniflorus</i>	x			
Celastraceae	<i>Stackhousia minima</i>	x			
Convolvulaceae	<i>Dichondra brevifolia</i>	x		?*	x
	<i>Dichondra repens</i>	x	x	x	x
Colchiaceae	<i>Iphigenia novae-zelandiae</i>	x			
Cyperaceae	<i>Carex breviculmis</i>	x*			
	<i>Carex colensoi</i>	x			
	<i>Carex virgata</i>	x	x*		x
	<i>Eleochoeris acuta</i>	x		x*	x
Dennstaedtiaceae	<i>Histiopteris incisa</i>	x	x*		x
	<i>Pteridium aquilinum</i> var. <i>esculentum</i>			x	x
Ericaceae	<i>Leucopogon fraseri</i>	x	x		x
Fabaceae	<i>Carmichaelia australis</i>	x	x	x	x
	<i>Carmichaelia monroi</i>	x		x	x
Geraniaceae	<i>Geranium brevicaulis</i>	x		?	x
Haloragaceae	<i>Haloragis depressa</i>	x			
	<i>Myriophyllum propinquum</i>	x			
Hypericaceae	<i>Hypericum gramineum</i>	x			
Juncaceae	<i>Juncus edgariae</i>		x*		x
	<i>Luzula rufa</i> var. <i>albicomansa</i>	x			
Juncaginaceae	<i>Triglochin striata</i>	x			
Lamiaceae	<i>Mentha cunninghamii</i>	x			
Myrtaceae	<i>Kunzea serotina</i>	x	x	x	x
Onagraceae	<i>Epilobium komarovianum</i>	x			
Orchidaceae	<i>Microtis unifolia</i>	x	x		x
	<i>Prasopphyllum colensoi</i>	x			
	<i>Pterostylis tristis</i>	x			
	<i>Thelymitra longifolia</i>	x		x	x
Poaceae	<i>Deyeuxia avenoides</i>	x			
	<i>Dichelachne crinita</i>	x	x		x
	<i>Festuca novae-zelandiae</i>	x	x	x	x
	<i>Pyrrhanthera exigua</i>	x			
	<i>Rytidosperma clavatum</i>	x	x	x	x
	<i>Muehlenbeckia axillaris</i>	x	x		x
	<i>Muehlenbeckia ephedroides</i>	x			
Potamogetonaceae	<i>Potamogeton cheesemanii</i>	x			
Ranunculaceae	<i>Ranunculus lappaceus</i>	x			
	<i>Ranunculus multiscapus</i>	x			
Rhamnaceae	<i>Discaria toumatou</i>	x	x	x	x
Rosaceae	<i>Acaena novae-zealandiae</i>	x			
Rubiaceae	<i>Coprosma</i> sp. aff. <i>petriei</i>			x	x
	<i>Nertera setulosa</i>	x			
	<i>Ophioglossum coriaceum</i>	x			
Scrophulariaceae	<i>Glossostigma elatinoides</i>	x			
Violaceae	<i>Viola cunninghamii</i>	x			
Total number of indigenous species		65	13	13	20

**Table S2.** Adventive species of vascular plants recorded in the three surveys in Bankside Scientific Reserve. (\* indicates species found only in the riparian zone of the creek running through the southern corner of the reserve; ? indicates unsure of species identification)

Family	Adventive species	1970	2005	2012/3	2005-13
Asteraceae	<i>Achillea millefolium</i>			x	x
	<i>Carduus nutans</i>		x	x	x
	<i>Cirsium arvense</i>		x	x	x
	<i>Cirsium vulgare</i>	x	x	x	x
	<i>Crepis capillaris</i>		x		x
	<i>Hieracium pilosella</i>	x	x	x	x
	<i>Hypochoeris glabra</i>	x			
	<i>Hypochoeris radicata</i>	x	x		x
	<i>Leontodon taraxacoides</i>	x			
	<i>Sonchus oleraceus</i>		x		x
	<i>Taraxacum officinale</i>		x		x
Azollaceae	<i>Azolla filiculoides</i>		x	x	x
Boraginaceae	<i>Myosotis laxa</i> subsp. <i>caespitosa</i>	x	x*		x
Brassicaceae	<i>Capsella bursa-pastoris</i>			x	x
Callitrichaceae	<i>Callitriche</i> sp.	x	x		x
Caryophyllaceae	<i>Cerastium fontanum</i>	x	x		x
	<i>Sagina procumbens</i>	x	x		x
	<i>Stellaria media</i>		x		x
Celastraceae	<i>Euonymus europaeus</i>			x	x
Fabaceae	<i>Cytisus scoparius</i>		x	x	x
	<i>Trifolium arvense</i>	x	x		x
	<i>Trifolium dubium</i>	x			
	<i>Trifolium glomeratum</i>	x			
	<i>Trifolium repens</i>	x	x		x
	<i>Trifolium subterraneum</i>	x	x		x
	<i>Ulex europaeus</i>		x	x	x
Geraniaceae	<i>Erodium cicutarium</i>	x			
Hydrocharitaceae	<i>Elodia canadensis</i>	x			
Juncaceae	<i>Juncus articulatus</i>	x			
	<i>Juncus bufonius</i>	x			
	<i>Juncus filicaulis</i>	x			
	<i>Juncus tenuis</i>	x			
Lamiaceae	<i>Prunella vulgaris</i>		x*		x
Oxalidaceae	<i>Oxalis corniculata</i>	x			
Plantaginaceae	<i>Plantago lanceolata</i>	x	x		x
Poaceae	<i>Agropyron scabrum</i>	x			
	<i>Agrostis capillaris</i>	x	x	x	x
	<i>Agrostis stolonifera</i>		x		x
	<i>Aira caryophyllea</i>	x			
	<i>Alopecurus geniculatus</i>	x			
	<i>Anthoxanthum odoratum</i>	x	x	x	x
	<i>Bromus diandrus?</i>			x	x
	<i>Bromus hordaceus</i>	x	x	?	x
	<i>Bromus sterilis</i>		x		x
	<i>Critesion murinum</i>			x	x
	<i>Cynosurus echinatus</i>		x		x
	<i>Dactylis glomerata</i>		x		x
	<i>Elymus rectisetus</i>	x	x		x
	<i>Festuca rubra</i> var. <i>commutata</i>	x	x		x
	<i>Glyceria fluitans</i>		x*		x
	<i>Holcus lanatus</i>		x	x	x
	<i>Lolium perenne</i>	x	x		x
	<i>Poa annua</i>			x	x
	<i>Poa pratensis</i>	x	x	x	x
	<i>Vulpia bromoides</i>	x			
Polygonaceae	<i>Rumex acetosella</i>	x	x	x	x
	<i>Rumex obtusifolius</i>		x		x
Ranunculaceae	<i>Ranunculus acris</i>		x		x
Rosaceae	<i>Acaena ovina</i> [= <i>A. agnipila</i> ]			x	x
	<i>Acaena agnipila</i>	x	x		x
	<i>Aphanes inexpectata</i>	x			
Rubiaceae	<i>Galium aparine</i>		x	x	x
Solanaceae	<i>Solanum dulcamara</i>		x		x
Total number of adventive species		36	39	20	46

**Table S3.** Moss and Lichen species recorded in the two surveys in Bankside Scientific Reserve. ? indicates unsure of species

Family	Genus and species	Molloy 1970	This study 2013
Acarosporaceae	<i>Acarospora</i>	x	
Bartramiaceae	<i>Breutelia pendula</i>	?	x
Bryaceae	<i>Bryum truncorum</i>	x	
Caliciaceae	<i>Buellia</i> sp. 1	x	
	<i>Buellia</i> sp. 2	x	
Candelariaceae	<i>Candelariella</i> sp. 1	x	
Cladoniaceae	<i>Cladonia aggregata</i>	x	x
	<i>Cladonia confusa</i>	x	x
	<i>Cladonia</i> sp. 1	x	
	<i>Cladonia</i> sp. 2	x	
Coccotremataceae	<i>Perforaria</i> sp. 1	x	
Dicranaceae	<i>Campylopus introflexus</i>	x	
Ditrichaceae	<i>Ceratodon purpureus</i>	x	
Graphidaceae	<i>Graphis</i> sp. 1	x	
Grimmiaceae	<i>Racomitrium pruinosum</i>	?	x
	<i>Racomitrium ptycophyllum</i>	?	x
Hypnaceae	<i>Hypnum cupressiforme</i>	?	x
Lecanorineae	<i>Lecanora</i> sp. 1	x	
Lecideaceae	<i>Lecidea</i> sp. 1	x	
	<i>Lecidea</i> sp. 2	x	
	<i>Lecidea</i> sp. 3	x	
	<i>Lecidea</i> sp. 4	x	
	<i>Lecidea</i> sp. 5	x	
	<i>Lecidea</i> sp. 6	x	
Lobariaceae	<i>Sticta</i> sp. 1	x	
	<i>Sticta</i> sp. 2	x	
Parmeliaceae	<i>Parmelia</i> sp. 1	x	
	<i>Parmelia</i> sp. 2	x	
	<i>Parmelia</i> sp. 3	x	
	<i>Parmelia</i> sp. 4	x	
	<i>Parmelia</i> sp. 5	x	
Parmeliaceae	<i>Usnea</i> sp. 1	x	
	<i>Usnea</i> sp. 2	x	
Physciaceae	<i>Physcia stellaris</i>	x	
Polytrichaceae	<i>Polytrichum juniperillum</i>	x	
Pottiaceae	<i>Tortula muralis</i>	x	
<u>Ramalinaceae</u>	<i>Ramalina ecklonii</i>	x	
	<i>Ramalina ecklonii</i> var. <i>sublinearis</i>	x	
	<i>Ramalina geniculata</i>	x	
	<i>Ramalina leiodea</i> var. <i>condensta</i>	x	
	<i>Ramalina</i> sp. 1	x	
Stereocaulaceae	<i>Lepraria</i> sp. 1	x	
Teloschistaceae	<i>Teloschistes chrysophthalmus</i>	x	
	<i>Teloschistes velifer</i>	x	
	<i>Xanthoria parietina</i>	x	
	<i>Xanthoria parietina</i> var. <i>ectanea</i>	x	
Thelotremataceae	<i>Diploschistes</i> sp. 1	x	
Unknown Moss	<i>Tortriquilla papillata</i>	x	
Total number of species		48	6