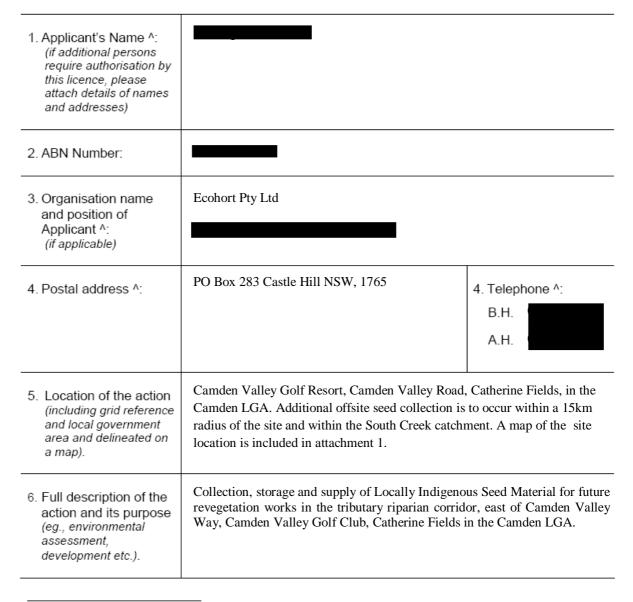
Department of Environment & Climate Change NSW

Application for a



Section 91 Licence

to harm or pick a threatened species, population or ecological community, or damage habitat under the *Threatened Species Conservation Act 1995.*



^{*} A threatened species, population or ecological community means a species, population or ecological community identified in Schedule 1, 1A or Schedule 2 of the *Threatened Species Conservation Act* 1995.

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[^]The personal details of all Section 91 licences will be displayed in the register of Section 91 licences required under Section 104 of the *Threatened Species Conservation Act 1995*. See notes.

7. Details of the area to be affected by the action (in hectares).	Remnant CPW and SCRFF within the Camden Valley Golf Resort site, remnants within a 15km radius of the site, and remnants within the South Creek catchment. The total area of South Creek to be rehabilitated is approximately 17.5ha.				
8. Duration and timing of the action (including staging, if any).	April 2008 to April 2009				
9. Is the action to occur on land declared as critical habitat*? (please tick appropriate box)	Yes	<u>No</u>			
10. Threatened species, populations or ecological communities to be harmed or picked.	Cumberland Plain Woodland Sydney Coastal River Flat Forest both in the Sydney Basin Bioregion	Common Name (if known) N/A	Conservation Status (ie. critically endangered, endangered or vulnerable) Both Endangered Ecological Communities under the NSW TSC Act 1995	Details of no. of individual animals, or proportion and type of plant material (eg. fertile branchlets for herbarium specimens or whole plants or plant parts) Seed is to be collected from species contained in remnants of both these ECCs from within 15km of the Camden Valley Golf Resort site and within the South Creek Catchment. All collection is to be carried out by qualified and experience staff of Ecohort Pty Ltd and within the Florabank Guidelines. Details of species to be collected under this licence application are included in attachment 2.	

^{*} Critical habitat means habitat declared as critical habitat under Part 3 of the *Threatened Species Conservation Act 1995*.

- Species impact: (please tick appropriate box)
- a) For action proposed on land declared as critical habtat; or
- b) For action proposed on land <u>not</u> declared as critical habitat.

An SIS is attached

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Items 12 to 25 have been addressed

N.B: Provision of a species impact statement is a statutory requirement of a licence application if the action is proposed on critical habitat.

The provision of information addressing items 12 to 17 is a statutory requirement of a licence application if the action proposed is <u>not</u> on land that is critical habitat. Information addressing any of the questions below must be attached to the application.

 Describe the type and condition of habitats in and adjacent to the land to be affected by the action. Apart from the remnants of Cumberland Plain Woodland and Sydney Coastal River Flat Forest marked on the NPWS Native Vegetation of the Cumberland Plain 2002 maps, the remainder of the Golf Resort site is mostly cleared of native vegetation. Refer to ATTACHMENT 3 for the location of existing remnant vegetation and vegetated riparian corridor at the Camden Valley Golf Resort site and ATTACHMENT 4: Location of proposed riparian restoration works at the Camden Valley Golf Resort site for further information.

Ecohort Pty Ltd proposes to collect provenance native seed from the Golf Course site, within a 15km radius of the site, and within the South Creek catchment. No impact to habitat is expected as a result of this activity as all seed collection being undertaken within the Florabank guidelines by qualified and experience staff. No seed or vegetative propagation material will be collected from any local threatened plant species. Seed will be collected from low quality CPW remnants and roadside remnants as a first priority, with better quality CPW remnants being targeted as a secondary priority, if required. Details of seed collection locals, species and quantities collected at outlined in attachment 2.

 Provide details of any known records of a threatened species in the same or similar known habitats in the locality (include reference sources). Reference to the NPWS Native Vegetation of the Cumberland Plain 2002 maps shows the site as containing remnants of Sydney Coastal River Flat Forest (class 11) and Cumberland Plain Woodland (class 10) with less than 10% canopy cover. A search was undertaken for any know records of threatened species on the DECC Threatened Species website for CAMDEN "CUMBERLAND PLAIN" and CAMDEN "RIVER FLAT FOREST" with both searches producing no results. It is possible that the endangered *Pimelea spicata* may be found on the site however **no material** is to be collected from this species under the proposed activities.

 Provide details of any known or potential habitat for a threatened species on the land to be affected by the action (include reference sources). While seed collection will be occurring within areas of remnant Cumberland Plain Woodland EEC of which the endangered *Pimelea spicata* may be found, it is not expected that the proposed activities will impact upon the ecological communities at either the proposed restoration site or the collection sites throughout the South Creek catchment. All seed collection occur within the FloraBank guidelines and will be undertaken by qualified and experience staff. Seed will be collected from low quality CPW remnants and roadside remnants as a first priority, with better quality CPW remnants being targeted as a secondary priority, if required. Details of seed collection locals, species and quantities collected at outlined in attachment 2.

15. Provide details of the amount of such habitat to be affected by the action proposed in relation to the known distribution of the species and its habitat in the locality. Collection of seed under this project is being sourced for the future riparian corridor rehabilitation works to a 1,400m length of South Creek and a 450m length of adjoining tributary. It is not expected that the proposed seed collection activities nor the future proposed restoration activities will impact upon any endangered species provided these activities are undertaken by suitably qualified and experienced staff. Rehabilitation and revegetation activities are listed on the DECC's web site as recovery strategies in the conservation of both the Endangered Cumberland Plain Woodland and Sydney Coastal River Flat Forest ecological communities.

16. Provide an assessment of the likely nature and intensity of the effect of the action on the lifecycle and habitat of the species. Given that all seed collection will be under the Florabank Guidelines, undertaken by qualified and experienced Ecohort Pty Ltd staff, and that no endangered species are targeted for collection; it is not expected that the proposed activity will impact on the lifecycle or habitat of any threatened species.

It is expected that the future rehabilitation works at the Camden Valley Golf Resort site for which this seed collection project is being undertaken; will in fact abate one of the main threatening processes (land clearing), affecting the threatened ecological communities at the subject site.

 Provide details of possible measures to avoid or ameliorate the effect of the action. No impact is expected on the ECC Cumberland Plain Woodland or Sydney Coastal River Flat Forest either at the proposed restoration site or targeted collection sites within the South Creek Catchment provided Ecohort Pty Ltd implement all proposed collection works using our appropriately qualified and experienced staff.

All seed collection will be undertaken within the Florabank guidelines, and details of the seed collected including locations, species and quantities collected are outlined in ATTACHMENT 2.

N.B: The Director-General must determine whether the action proposed is likely to significantly affect threatened species, populations or ecological communities, or their habitats. To enable this assessment the Applicant is required to address items 18 to 25. Information addressing any of the questions below must be attached to the application.

18. In the case of a threatened species, whether the action proposed is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction. The proposed seed collection activities will be undertaken by experienced and qualified staff of Ecohort Pty Ltd. As such, it is unlikely that any impact on protected or threatened species will occur as a result of the proposed activities. No threatened flora species have been listed for collection under this project. Refer to ATTACHMENT 2 for species listed for collection.

Ecohort Pty Ltd proposes to collect seed to enable the production of provenance native plant species for use in the revegetation component of the project, with all seed collection being undertaken within the Florabank guidelines. No seed or vegetative propagation material will be collected from any local threatened plant species. Seed will be collected from low quality CPW remnants and roadside remnants as a first priority, with better quality CPW remnants being targeted as a secondary priority, if required. Details of seed collection locals, species and quantities collected as outlined in attachment 2.

19. In the case of an endangered population, whether the action proposed is likely to have an adverse effect on the life cycle of the species that constitutes the endangered population such that a viable local population of the species is likely to be placed at risk of extinction.

The proposed seed collection activities will be undertaken by experienced collectors in line with FloraBank guidelines and as such are unlikely that any endangered population is likely to be disrupted such that the viability of the population is likely to be adversely affected or placed at an increased risk of extinction.

- 20. In the case of an endangered ecological community or critically endangered ecological community, whether the action proposed:
- (i) is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or
- (ii) is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction.

No impact, modification or removal of the remnant Cumberland Plain Woodland or Sydney Coastal River Flat Forest community is expected to the occur as a result of the proposed seed collection works provided that Ecohort Pty Ltd implement all proposed works using our appropriately qualified and experienced staff, and follow the FloraBank guidelines. No endangered plant species are to be targeted under the proposed seed collection activities. When collecting within remnant ECCs, collection site selection priority will be given firstly to road side locations and degraded remnants, with remnants of a good condition only being targeted to complete species quotas that cannot be met in degraded locations alone.

It is expected that the future rehabilitation works at the Camden Valley Golf Resort site for which this seed collection project is being undertaken; will in fact abate one of the main threatening processes (land clearing), affecting the threatened ecological communities at the subject site.

Seed will be collected from low quality CPW remnants and roadside remnants as a first priority, with better quality CPW remnants being targeted as a secondary priority, if required.

- 21. In relation to the habitat of a threatened species, population or ecological community:
- (i) the extent to which habitat is likely to be removed or modified as a result of the action proposed, and
- (ii) whether an area of habitat is likely to become

As all seed collection will be undertaken by Ecohort Pty Ltd's qualified and experienced staff, and collection will be undertaken within the FloraBank guidelines; it is not expected that any collection activities will impact upon the habitat of a threatened species, population or an ecological community.

Collection of seed under this project is being sourced for the future riparian corridor rehabilitation works to a 1,400m length of South Creek and a 450m length of adjoining tributary within the Camden Valley Golf Resort site. It is expected that future restoration works at the site will contribute to abating one of the main threatening processes affecting the endangered Cumberland Plain Woodland and Sydney Coastal River Flat Forest at the subject site i.e. land clearing and fragmentation. Rehabilitation and revegetation activities are also listed on the DECC's web site as recovery strategies in the conservation of both the Endangered Cumberland Plain Woodland and Sydney Coastal River Flat Forest ecological communities.

fragmented or isolated from Under the proposed works, Ecohort Pty Ltd has been engaged to collected other areas of habitat as a seed under Florabank guidelines, to produce 1,159,700 plants for use in result of the proposed future rehabilitation works at the Camden Valley Golf Resort site. A list of action, and required species is listed in ATTACHMENT 2. When collecting within remnant ECCs, collection site selection priority will be given firstly to road (iii) the importance of the side locations and degraded remnants, with remnants of a good condition habitat to be removed. only being targeted to complete species quotas that cannot be met in modified, fragmented or degraded locations alone isolated to the long-term survival of the species. population or ecological community in the locality. Seed collection activities are to be carried out by qualified and experienced 22. Whether the action staff of Ecohort Pty Ltd within the FloraBank guidelines. As such, it is not proposed is likely to expected that any damage will occur or affect any critical habitat, either have an adverse effect directly or indirectly. on critical habitat (either directly or indirectly). It is expected that the future rehabilitation works at the Camden Valley Golf Resort site for which this seed collection project is being undertaken; will in Whether the action fact abate one of the main threatening processes (land clearing and proposed is consistent fragmentation) which affects most threatened ecological plant communities with the objectives or within the Camden LGA. Bush Regeneration and Revegetation is also listed actions of a recovery plan or threat as a priority management action for Cumberland Plain Woodland and the abatement plan. Sydney Coastal River Flat Forest as displayed on DECC's web site. No recovery plan for Cumberland Plain Woodland or the Sydney Coastal River Flat Forest appears to be available on the DECC's website at the time of lodging this application. The actions proposed in this application are not of a class of action that 24. Whether the action could be recognised as a key threatening process, or are likely to result in proposed constitutes or the operation of, or increase the impact of a key threatening process. Seed is part of a key will be collected from low quality CPW remnants and roadside remnants as threatening process or a first priority, with better quality CPW remnants being targeted as a is likely to result in the secondary priority, if required. This is provided that Ecohort Pty Ltd operation of, or increase implements all seed collection works using our appropriately qualified and the impact of, a key experienced staff, using accepted best practice techniques as outlined in the threatening process. FloraBank guidelines.

Processing times and fees

The *Threatened Species Conservation Act 1995* provides that the Director-General must make a decision on the licence application within 120 days where a species impact statement (SIS) has been received. No timeframes have been set for those applications which do not require a SIS. The Director-General will assess your application as soon as possible. You can assist this process by providing clear and concise information in your application.

Applicants may be charged a processing fee. The Director-General is required to advise prospective applicants of the maximum fee payable before the licence application is lodged. Therefore, prospective applicants should contact the DECC prior to submitting a licence application .

A \$30 licence application fee must accompany a licence application.

Protected fauna and protected native plants

Licensing provisions for protected fauna and protected native plants are contained within the *National Parks and Wildlife Act 1974*. However, a Section 91 Licence may be extended to include protected fauna and protected native plants when these will be affected by the action.

If you are applying for a licence to cover both threatened and protected species please provide the information requested in Item 10 and a list of protected species and details of the number of individuals animals or proportion and type of plant material which are likely to be harmed or picked.

Request for additional information

The Director-General may, after receiving the application, request additional information necessary for the determination of the licence application.

Species impact statement

Where the application is not accompanied by a SIS, the Director-General may decide, following an initial assessment of your application, that the action proposed is likely to have a significant effect on threatened species, populations or ecological communities, or their habitats. In such cases, the *Threatened Species Conservation Act 1995* requires that the applicant submit a SIS. Following initial review of the application, the Director-General will advise the applicant of the need to prepare a SIS.

Director-General's requirements for a SIS

Prior to the preparation of a SIS, a request for Director-General's requirements must be forwarded to the relevant DECC Office. The SIS must be prepared in accordance with section 109 and 110 of the TSC Act and must comply with any requirements notified by the Director-General of the Department of Environment and Climate Change (NSW).

Disclosure of Personal Information in the Public Register of s91 Licences

Protected fauna means fauna of a species not named in Schedule 11 of the National Parks and Wildlife Act 1974.

Protected native plant means a native plant of a species named in Schedule 13 of the *National Parks and Wildlife Service* 1974.

The Public Register provides a list of licence applications and licences granted. A person about whom personal information is contained in a public register may request that the information is removed or not placed on the register as publicly available.

A full copy of licences granted is included on the DECC website at http://www.environment.nsw.gov.au/npws.nsf/content/s91 tsca register or in a hardcopy available from The Librarian, DECC, 59 Goulburn St, Sydney.

Please contact the relevant Environment Protection and Regulation Division for more details (Contact details are below)

Certificates

If the Director-General decides, following an assessment of your application, that the proposed action is not likely to significantly affect threatened species, populations or ecological communities, or their habitats, a Section 91 Licence is not required and the Director-General must, as soon as practicable after making the determination, issue the applicant with a certificate to that effect.

N.B: An action that is not required to be licensed under the Threatened Species Conservation Act 1995, may require licensing under the National Parks and Wildlife Act 1974, if it is likely to affect protected fauna or protected native plants.

I confirm that the information contained in this application is correct. I hereby apply for a licence under the provisions of Section 91 of the *Threatened Species Conservation Act 1995*.

Applicant's name, organisation and position (Please print) Applicant's signature

5.7m;

Date

Director, Ecohort Pty Ltd

24 April 2008

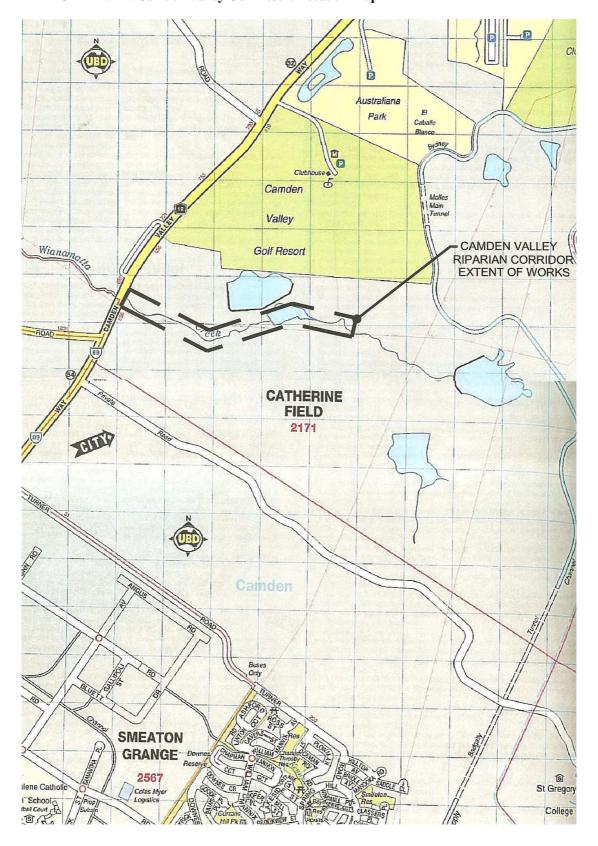
For more information or to lodge this form, contact the Climate Change and Environment Protection Group in your nearest DECC office:

Metropolitan Branch Metropolitan Branch North East Branch North East Branch P: 02 9995 6851 P: 02 4225 1455 P: 02 6640 2500 P: 02 4908 6800 F: 02 9995 6900 F: 02 4225 3545 F: 02 6642 7743 F: 02 4908 6810 PO Box 668 PO Box 5436 PO Box 498 PO Box 488G, Parramatta Wollongong Grafton Newcastle NSW 2124 NSW 2515 NSW 2460 NSW 2300 North West Branch South East Region South Branch South Branch South West Region P: 02 6122 3100 P: 02 6022 0600 F: 02 6884 9382 F: 02 6299 3525 PO Box 2111 PO Box 544 PO Box 622 Queanbeyan Dubbo Albury NSW 2830 NSW 2640 NSW 2620

> Department of Environment and Climate Change (NSW) PO Box A290, Sydney South NSW 1232 Phone: 9995 5000 (switch) Fax: 9995 5999

Email: info@environment.nsw.gov.au

ATTACHMENT 1: Camden Valley Golf Resort Location Map



ATTACHMENT 2: Ecohort Pty Ltd Summary Plant Schedule for Camden Valley Golf Resort

ITEM	SCHEDULED SPECIES	PROVEDANCE	QUANTITY PLANTS REQ	PROPAGATION MATERIAL TYPE	SEEDS PER GRAM	NO GRAMS REQUIRED (ASSUME 50% VIABILITY)
1	Collection of Seed as specified to allow for J	propagation of plants as per schedules below				
1.1	TREES					
	Acacia decurrens	Narellan Creek Harrington Park	3000	seed	50	120
	Acacia falcatta	Narellan Creek Harrington Park	3000	seed	50	120
	Acacia implexa	Douglas Park Road Douglas Park	3000	seed	50	120
	Acacia parramattensis	Narellan Creek Harrington Park	3000	seed	50	120
	Angophora floribunda	Camden Valley Way Catherine Field	6000	seed	40	300
	Angophora subvelutina	Camden Valley Way Catherine Field	1500	seed	40	75
	Brachychiton populneum	Narellan Creek Harrington Park & Camden Valley Golf Club Development Catherine Field	200	seed	10	40
	Casuarina glauca	Camden Valley Golf Club Development Catherine Field	12,000	seed	200	120
	Eucalyptus amplifolia	Narellan Creek Harrington Park	6000	seed	200	60
	Eucalyptus crebra	Camden Valley Golf Club Development Catherine Field	3000	seed	300	20
	Eucalyptus tereticornis	Narellan Creek Harrington Park	6000	seed	400	30
	Melaleuca linarifolia	Narellan Creek Harrington Park	6000	seed	1000	12
	Melaleuca styphelioides	Bringelly Road Rossmore	6000	seed	1000	12
		TOTALS	58700			1149
1.2	SHRUBS					
	Acacia ulicifolia, (may be subsitituted with Acacia floribunda)	Narellan Creek Harrington Park	8000	seed	50	320
	Bursaria spinosa	Narellan Road Narellan	20,000	seed	100	400

					_	
	Daviesia ulicifolia	Bringelly Road Rossmore	8000	seed	50	320
	Dillwynia sieberi	Bringelly Road Rossmore	8000	seed	50	320
	Dodonaea viscosa subsp. cuneata	Camden Valley Way Narellan	8000	seed	50	320
	Kunzea ambigua	Boral Development Site Moorebank	16000	seed	1000	32
	Melaleuca decora	Ingleburn Road Leppington	8000	seed	1000	16
	Ozothamnus diosmifolius	Bringelly Road Rossmore	4000	seed	250	32
		TOTALS	80000			1760
1.3	GRASSES & GROUNDCOVERS					
	Austrodanthonia tenuoir	Narellan Creek Harrington Park & Camden Valley Golf Club Development Catherine Field	47,500	seed	300	317
	Carex appressa	Narellan Creek Harrington Park	118,750	seed	200	1188
	Carex inversa, (replace with Carex appressa)	Narellan Creek Harrington Park	47,500	seed	200	475
	Chloris truncata	Narellan Creek Harrington Park	28,500	seed	300	190
	Dianella longifolia var. longifolia	Narellan Creek Harrington Park	23,750	seed	100	475
	Dianella revoluta	Camden Valley Way Hoxton Park	47,500	seed	100	950
	Entolasia marginata, (replace with local Capillipedium spp)	Mulgoa Road Wallacia	47,500	seed	300	317
	Hardenbergia violacea	Narellan Creek Harrington Park	19,000	seed	50	760
	Juncus usitatus	Narellan Creek Harrington Park	95,000	seed	1000	190
	Lomandra filiformis, (replace with Cymbopogon refractus)	Mulgoa Road Wallacia	47,500	seed	200	475
	Lomandra longifolia	Georges River Road Kentlyn	47,500	seed	100	950
	Microlaena stipoides var stipoides	Camden Valley Golf Club Development Catherine Field	66,500	seed	100	1330
	Poa labillardieri, (some of the quantities of this species may be substituted with Sorghum leiocladum)	Narellan Creek Harrington Park	95,000	seed	200	950
	Stipa pubescens, (replace with Bothrochloa macra)	Bingarra Gorge Estate Wilton	9,500	seed	200	95
	Themeda australis	Macarthur Substation Development Site Menangle	190,000	seed	100	3800
		TOTALS	931,000			12462
1.4	LITTORAL VEGETATION					
	Carex appressa	Narellan Creek Harrington Park	25,200	seed	200	252

	Juncus usitatus	Narellan Creek Harrington Park	28,800	seed	1000	58
	Lepidosperma laterale	Boral Development Site Moorebank	10,800	seed	100	216
	Oplismenus aemulus	Narellan Creek Harrington Park	7,200	seed	100	144
		TOTALS	72,000			670
1.5	MACROPHYTE VEGETATION					
	Baumea articulata	Narellan Creek Harrington Park	2,700	seed	100	54
	Baumea juncea	Narellan Creek Harrington Park	1,800	seed	100	36
	Bolboschoenus caldwellii	Narellan Creek Harrington Park	1,800	seed	100	36
	Bolboschoenus fluviatus	Narellan Creek Harrington Park	1,800	seed	100	36
	Cyperus exaltatus	Camden Valley Golf Club Development Catherine Field	1800	seed	100	36
	Eleocharis acuta	Camden Valley Golf Club Development Catherine Field	1,800	seed	100	36
	Eleocharis spachelata	Camden Valley Golf Club Development Catherine Field	1,800	seed	100	36
	Phragmites australis	Camden Valley Golf Club Development Catherine Field	1,800	seed	200	18
	Schoenoplectus mucronatus	Camden Valley Golf Club Development Catherine Field	2,700	seed	100	54
		TOTALS	18,000			342
		ALL PLANT TOTALS	1,159,700			

ATTACHMENT 3: Location of Existing Remnant Vegetation and Vegetated Riparian Corridor at the Camden Valley Golf Resort Site



ATTACHMENT 4: Location of Proposed Riparian Restoration Works at the Camden Valley Golf Resort Site

