

Appendix I

Order of Cost Estimates

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Note: The range of costs provided below is provided as a guide only and should be reviewed regularly.

Resourcing	Order of Cost Estimate	
	Min	Max
Site Manager Ranger / Ranger	\$60,000	\$80,000
Recruitment	\$5,000	\$8,000
Training	\$2,000	\$15,000
Equipment (Vehicle, GPS, Computer etc)	\$35,000	\$45,000
Consultancies (are associated with actions outlined below)		
Sub-total	\$102,000.00	\$148,000.00

Soils and Contamination	Order of Cost Estimate	
	Min	Max
Removal of rubbish and cars	\$500	\$5,000
Undertake Phase II assessments	TBA	TBA
Remediate confirmed contamination sites	Unknown	Unknown
Surveillance and continued removal of rubbish dumping	\$500	\$5,000
Compliance with the Blacktown City Council's Soil Erosion and Sediment Control Program	\$500	\$2,000 (per project)
Utilise geologically similar soils etc (per project)	0	\$2,000
Monitor and treat areas of minor erosion	\$500 (annual)	\$1,000 (annual)
Sub-total	\$2000*	\$15,000*
*This excludes investigations into contamination		

Hydrology	Order of Cost Estimate	
	Min	Max
To restrict activities and works within 40m of the two drainage lines on site.	\$1000	\$5,000
To comply with the Blacktown City Council's Soil Erosion and Sediment Control	Previously costed	
Undertake water quality sampling as part of any aquatic ecology investigations outlined in Section 8.	10,000	15,000
Sub-total	\$11,000	\$20,000

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Flora	Order of Cost Estimate	
	Min	Max
Implement an annual weed control program (per annum)	\$25,000	\$40,000
Opportunistic weed control following fire	\$2,000	\$4,000
Monitoring of the site to occur twice yearly	\$8,000	\$15,000
All activities removing vegetation require EIA	\$12,000	\$20,000
Remove any garden waste dumped on site as soon as practicable to prevent new incursions of weeds on site.	\$500	\$2,000
Conduct botanical surveys in 2-3 yrs (regrowth).	\$15,000	\$25,000
Conduct annual TS survey	\$15,000	\$25,000
Sub-total	\$77,500	\$131,000

Fauna	Order of Cost Estimate	
	Min	Max
Contribute to CPLS Recovery Plan	\$2,000	\$10,000
Prohibit the collection of firewood from site.	\$100	\$1,000
Map habitat trees on site to establish the location of Anabat and spotlighting surveys.	\$15,000	\$20,000
Conduct an annual census of CPLS on site.	\$10,000	\$20,000
Conduct frog surveys in late spring/early summer.	\$10,000	\$20,000
Conduct an aquatic ecology survey aimed at removing <i>Gambusia</i> habitat or creating <i>Gambusia</i> free areas.	\$15,000	\$30,000
Conduct further bird census surveys when <i>Eucalyptus creba</i> and <i>E. fibrosa</i> are in flower.	\$6,000	\$10,000
Investigate the options and costs for feral cat control on site including a local community education campaign.	\$12,000	\$15,000
Create an information sheet for circulation to operational staff and contractors on site about significant fauna species on site to aid in identification, recording and management.	\$1,000	\$2,000
Monitor the populations and impacts of dogs, fox, rabbits and cats on site.	\$8,000	\$10,000
Sub-total	\$79,100	\$138,000

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Fire	Order of Cost Estimate	
	Min	Max
Maintain existing Asset Protection Zone around the Airservice Australia buildings	\$6,000	\$10,000
The testing and servicing of internal hydrants	\$500	\$1,200
The lease (or renewed lease) with the Pistol Club maintain the existing fuel free area to provide an adequate APZ.	At Lessee's cost	
For fuel management a rotational mosaic burn schedule	\$15,000	\$40,000
That a detailed fire response	\$3,000	\$15,000
Maintain fire records	\$3,000	\$15,000
Locks for Gates.	\$200	\$500
Additional water supplies (35,000 litre tank)	TBA	TBA
Training for operational staff in fire response (Max with Equipment)	\$5,000	\$150,000
Rehabilitation following fire suppression with machinery	\$10,000	\$10,000
Liaison with Penrith Blacktown Fairfield Bush Fire Management Committee etc	\$0	\$2,500
Mapping and upgrading some fire trails	\$15,000	\$40,000
Referral for hazard reduction burns	\$10,000	\$25,000
Sub-total	\$40,000	\$227,500

Heritage	Order of Cost Estimate	
	Min	Max
Archival recording	\$12,000	\$20,000
Assess movable elements, records and plans (archives) for potential Commonwealth and national heritage values and State and local heritage significance.	10,000	\$15,000
Undertake a site history	\$5,000	\$12,000
Develop an interpretative theme and display options for site and museum locations.	\$7,000	\$12,000
Prepare an Indigenous Cultural Heritage management plan (<i>Does not include Aboriginal Representative expenses</i>)	\$20,000	\$30,000
Conduct surface surveys to establish the location of potential archaeological deposits	\$15,000	\$25,000
Establish a site protocol for impact assessment with regard to indigenous cultural heritage and consultation;	Part of Plan	
Reporting of cultural heritage information	Part of Plan	

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Heritage	Order of Cost Estimate	
	Min	Max
Relevant (section 87) consent	Part of Plan	
Authorise access to the site for maintenance of cultural heritage values (if required); and	Part of Plan	
Identify potential sources of funding for cultural heritage investigations.	Part of Plan	
Engage suitable qualified personal to prepare the plan and undertake these investigations.	Part of Plan	
All environmental impact assessment activities shall consider the potential impact on Aboriginal cultural heritage items.	\$5,000	\$10,000
Sub-total	\$74,000.00	\$124,000.00

Human Activities	Order of Cost Estimate	
	Min	Max
Conduct a visual inspection of the entire site at least once weekly.	Ranger Duties	
Erect and maintain signage every 20m on the boundary of the site warning of the penalties of trespass.	\$10,000	\$15,000
Erect and maintain a series of bollards in areas that experience high incidents of car dumping.	\$25,000	\$40,000
Implement prosecutions (Legal Fees)	\$50,000	\$80,000
Develop a community awareness strategy to target local and site visitors illustrating permissible and prohibited	\$20,000	\$30,000
Regrade the moat following the seeding of threatened species and not again until maturity of new seedlings.	\$40,000	\$50,000
Sub-total	\$145,000	\$215,000

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Totals

Totals	Order of Cost Estimate	
	Min	Max
Resourcing	\$102,000	\$148,000
Soils (excluding contamination)	\$2,000	\$15,000
Hydrology	\$11,000	\$20,000
Flora	\$77,500	\$131,000
Fauna	\$79,100	\$138,000
Fire	\$40,000	\$227,500
Heritage	\$74,000	\$124,000
Human Activities	\$145,000	\$215,000
Total (+/- 50%)	\$530,600	\$1,018,500