

RESPONDING TO

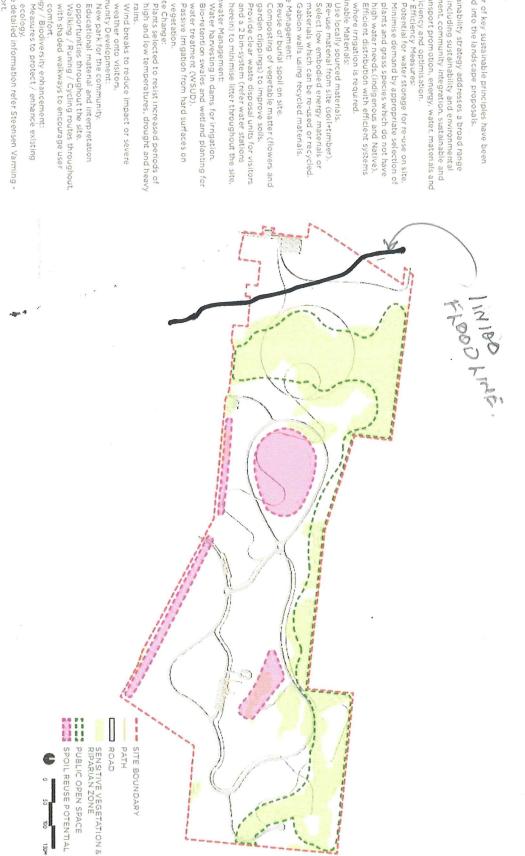
7.1 ENVIRONMENTALLY SUSTAINABLE DESIGN PRINCIPLES

integrated into the landscape proposals. A number of key sustainable principles have been

of areas, including sustainability and environmental management, community integration, sustainable and active transport promotion, energy, water, materials and waste efficiency and optimisation. The sustainability strategy addresses a broad range

- Water Efficiency Measures: · Potential for water storage for re-use on site
- Minimise demand by appropriate selection of high water needs. (indigenous and Native). Efficient distribution with efficient systems plants and grass species which do not have
- Sustainable Materials: where irrigation is required.
- Use locally sourced materials
- Re-use material from site (soil+timber).
 Select low embodied energy materials or
 materials which can be re-used or recycled.
- Waste Management: Gabion walls using recycled materials.
- Reuse of burial spoil on site. Composting of vegetable matter (flowers and garden clippings) to improve soils. Provide clear waste disposal units for visitors and a 2 bin-system (refer water stations
- herein) to minimise litter throughout the site.
- Stormwater Management: Water harvesting in dams for irrigation.
- Bio-retention swales and wetland planting for water treatment (WSUD).
- Passive Irrigation from hard surfaces on vegetation.
- Wind breaks to reduce impact or severe rains. high and low temperatures, drought and heavy
- weather onto visitors. Community Development:
- New park for the community.
- opportunities throughout the site.
 Walking / Runing / Cycling routes throughout, Educational material and interpretation
- with shaded walkways to encourage user
- Ecology / Biodiversity enhancement:
 Measures to protect/ enhance existing

For more detailed information refer Steensen Varming - ESD report.







VARROUILLE PROPERTY.

RESULTS OF QUANTITATIVE ANALYSIS — FINANCIAL HARDSHIP

The above described quantitative analysis shows the following impact and associated financial hardship resulting from the imposition of the heritage curtilage;

LOSS OF BURIAL PLOT LAND

Area available for burial plots before heritage curtilage.

40.0153 hectares of burial plot land.

Area available for burial lots after exclusion of heritage curtilage.

14,1396 hectares of burial plot land.

Loss

25.8757 hectares of burial plot land being 64.66% of the original burial plot land.

LOSS OF NUMBER OF BURIAL PLOTS

Plots available for burial plots before heritage curtilage.

138,455 burial plots

Plots available for burial plots after exclusion of

45,637 burial plots

heritage curtilage.

Loss

92,818 burial plots being 67.04% of the original burial plots.

32.96%

PERIOD OF PLOT SALES (Supply Period)

Life of Sales before exclusion of heritage curtilage.

110 years

Life of Sales after exclusion of heritage curtilage.

52 years

Loss of Sales Period.

58 years

LOSS OF SALES REVENUE

Present Value of total sales revenue before exclusion of heritage curtilage.

\$565,000,000 approximately

Present Value of total sales revenue after exclusion of \$351,000,000 approximately heritage curtilage.

Present Value of loss in total sales revenue

\$214,000,000 approximately

CMCT IS ONLY ABOUT MONEY NOT THE PEOPLE OR ANY THING ELSE

THE NEED FOR A

WALLACIA? CEMETERY AT

significant capacity for the West City shows "there is approved facilities." to existing and District in relation This table by PCC

> Prohibition of Cemeteries and Crematoriums in Mulgoa Valley and parts of Wallacia Planning Proposal to aimend Penrith Local Environmental Plan 2010

Table 1: A summary of cemetery provision in Penrith LGA

The state of the second of the second	TRIBLELL	
	Capracity	Comments
	Available	
Penrith	10,000	There is capacity for up to around 10,000 burials still
		possible within the Penrith Cemetery.
St Marys	855	There are 655 plots reserved at 5t Marys Cemetery.
Emu Plains	204	There 204 plots reserved at Emu Plains Cemetery.
Approved cemeteries in LGA	LGA	
Luddenham Memorial	38,000	This development will include cemetery, memorial
Park	K = -	gardens, associated buildings and crematorium.
		Capacity for 25,000 ground burials and 13,000 above ground burials.
Other cemeteries outside	e LGA likely to	Other cemeteries outside LGA likely to have an impact on the area as a regional offering
InvoCare Cemeteries	These cen	These cemeteries in Rouse Hill, Minchinbury and Forest Lawn,
Forest Lawn		
Catholic Metro.	These cen	These cemeteries provide a combination of crematorium,
Compteries Trust	natural bu	natural burial, islamic burial and lawn burial areas or rural style
Catholic Cemetery -	cemetery	cem etery set on church grounds.
Rookwood		
Kemps Creek General		
Cemetery		
Greendale Cemetery		
Liverpool Cemetery		
Cemetery proposals with	in the broade	Cemetery proposals within the broader Penrith catchment area
41 Greendale Road	These are	These are approved cometeries within the Liverpool LGA. They
321 Greendale Road	will have o	
Macarthur Memorial	This facilit	This facility received rezoning approval in 2016, in the
Park, Varroville	Campbellt	Campbelltown LGA, with capacity for 136,000 plots and
	expected	expected to be operational by 2018

85,000

136,000 ??



Annual Operator Activity Survey - 2016/17

as at 30 June 2017

Service type	No. of services	Percentage
Total number of burials	18415	33.4%
Total number of cremations	36704	66.6%
Total number of services	55119	100%

270	
41	Crematoria operators
229	Cemetery operators
No. of operators	Type of Operator

327	Closed cemeteries
922	Operational cemeteries
No. of facilities	Cemeteries Status
emeteries	3. Whole of NSW, number of cemeteries

Operator sector No. of Cemeterie	No. of Cemeteries	% of Total Cemeteries	No. of Cemeteries	% of Operational	No. of Cemeteries	% of Closed Cemeteries	No. of Crematoria	% of Crematoria
	(Operational & Closed)		(Operational)	Cemeteries	(Closed)			
Local Government	998	81%	710	77%	288	88%	œ	15%
Crown	20	2%	13	1%	7	2%	4	8%
Private	30	2%	29	3%	1	0.3%	41	77%
Church	189	14%	159	17%	30	9%	0	0
Community	7	1%	11	1%	1	0%	0	0
	1244	1000/	922	100%	327	100%	53	100%

Operator sector	No. of Cemeteries	% of Total Cemeteries	No. of Cemeteries	% of Operational	No. of Cemeteries	% of Closed Cemeteries	No. of Crematoria	% of Crematoria
	(Operational & Closed)		(Operational)	Cemeteries	(Closed)			
Local Government	57	48%	37	43%	20	61%	0′	09
Crown	10	8%	10	11%	0	0%	4	319
Private	00	7%	00	9%	0	0%	9	699
Church	44	37%	31	36%	13	39%	0	
Community	1	1%	1	1%	0	0%	0	
	120	100%	87	100%	33	100%	13	1009

Whole of NSW, summary burial and cremation activity	on activity							
Planning Region	No. of burials	No. of cremations	No. of services	Cremation rate No. of seco	second or subsequent	Grave occupancy rate	Grave occupancy rate No. of ash interments or	Ash disposition rate
d					burials		scatterings	
Whole of NSW	18415	36704	55119	66.6%	4894	1.43	12925	35.21%
Metropolitan Sydney	9294	17253	26547	65.0%	2615	1.39	6527	37.83%
Rural and Regional NSW*	9121	19451	28572	68.1%	2279	1.46	5320	27.35%
Central Coast, Hunter and Illawarra	2678	10213	12891	79.2%	620	1.71	3438	33.66%
the state of the s	Control Const Envision Uninter Ille							

all planning regions other than Metropolitan Sydney, including Central Coast, Far West, Hunter, Illawarr

South East & Tablelands	Central West & Orana 152	North Coast 106	New England - North West 98	Riverina Murray 117	Metropolitan Sydney 87	Illawarra 24	Hunter 173	Far West 38	Central Coast 16	Planning Region No. of cemeteries	Whole of NSW, burials and cremations by planning region
902	1429	1248	913	1678	9294	918	1315	273	445	No. of burials	
4.9%	7.8%	6.8%	5.0%	9.1%	50.5%	5.0%	7.1%	1.5%	2.4%	% of NSW burials	
3	5	10	4	5	. 13	w	6	2	2	No. of crematoria	
935	1100	3707	733	2595	17253	2468	5154	168	2591	No. of Cremations	
50.9%	43.5%	74.8%	44.5%	60.7%	65.0%	72.9%	79.7%	38.1%	85.3%	Cremation rate %	
2.5%	3.0%	10.1%	2.0%	7.1%	47.0%	6.7%	14.0%	0.5%	7.1%	% of NSW cremations	
1837	2529	4955	1646	4273	26547	3386	6469	441	3036	No. of services (burials and cremations)	
					4		1			% of NSW ser	

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Metropolitan Sydney, burials and cremations by Sydney sub-region	remations by Sydney sub-region							
Metropolitan Sydney District	No. of cemeteries	No. of burials	% of Sydney burials	No. of crematoria	No. of Cremations	Cremation rate %	% of Sydney cremations	No. of services % of total Sydney ser
,								(burials and cremations)
Central	7	853	9.2%	1	1195	58.3%	6.9%	2048
West Central	15	4769	51.3%	4	5079	51.6%	29.4%	9848 3
North	13	1518	16.3%	2	5266	77.6%	30.5%	6784 2
West	29	388	4.2%	2	1223	75.9%	7.1%	1611
South West	22	1188	12.8%	2	2156	64.5%	12.5%	3344 1
South	1	577	6.2%	2	2334	80.2%	13.5%	2911 1
	87	9293	100%	13	17253	65.0%		26546 1

9. Whole of NSW, burials by type and cemetery operator sector

o. wellose of more, surious sy type and territory operation section	center y operator secto.						
Operator sector	No. of interments of bodily	No. of interments of bodily No. of interments of bodily No. of interments of bodily	No. of interments of bodily	Total No. of interments	% of total interments	2nd or subsequent	Grave occupancy rate*
	remains in new perpetual	remains in perpetual	remains in interment sites			burials as a % of total	
	interment	interment	under renewable			interments	
	sites	sites sites (one or more previous	rights terms				
		interments					
Local Government	6318	2299	62	8679	47.1%	12.5%	1.37
Crown	4314	2411	6	6731	36.6%	13.1%	1.56
Private	2685	164	0	2849	15.5%	0.9%	1.06
Church	89	20	0	109	0.6%	0.1%	1.22
Community	47	0	0	47	0.3%	0.0%	1.00
	13453	4894	83	18415	100%	26.2%	1.37

^{*} Grave occupancy rate is an interred ongoing rate for the no. of interments per grave plot, at the current rate of second interment. The figure is derived by dividing the number of burials completed in the term by the number of burials in new plots completed for the term. The figures must be used with caution, as at the cemetery-specific level, as a cemetery facility nears exhaustion of capacity, only second or subsequent interments may be completed, and the apparent occupancy rate may exceed 2 per grave. CCNSW considers that grave occupancy rate is of value at the regional level, where variations between facilities net out, and where facility-specific anomalies may be excluded from analysis. In specific cases where a single facility volume predominates, the apparent rate of grave occupancy may be deemed unreliable.

10. Metropolitan Sydney, burials by type and cemetery operator sector

4774						The second secon	
7 41	28.1%	100%	9293	68	2615	6610	
1.00	0.0%	0%	39	0	0	39	Community
1.28	0.1%	1%	51	0	11	40	Church
1.01	0.2%	19%	1806	0	21	1785	Private
1.56	25.0%	70%	6497	6	2324	4167	Crown
1.55	2.8%	10%	900	62	259	579	Local Government
					interments		
				rights terms	sites sites one or more previous	sites	
	interments			under renewable	interment	interment	
,	burials as a % of total			remains in interment sites	remains in perpetual	remains in new perpetual	
Grave occupancy rate*	2nd or subsequent	% of total interments	Total No. of interments	No. of interments of bodily	No. of interments of bodily No. of interments of bodily No. of interments of bodili	No. of interments of bodily	Operator sector

11. Whole of NSW, cremations and ash interments by crematoria operator sector

Operator sector	No. of cremations of bodily	% of total cremations	No. of interments of	No. of cremated	No. of ash	Ash disposition rate
	remains		cremated remains*	remains scattered	dispositions**	
				within grounds		
Local Government	3254	9.6%	3525	60	3585	110.2%
Crown	5359	14.6%	3382	114	3496	65.2%
Private	28091	75.8%	4438	335	4773	17.0%
Church	0	0.0%	528	17	545	0.0%
	36704	100%	11873	526	12399	33.8%
				-		

^{*} Generally below ground, or in a niche wall or columbariumඕ* ie, ashes interred or scattered within a cemetery

12. Whole of NSW, burials and cremations by operator sector

100,0						
100%	55119	100%	36704	100%	18415	
'A	156 N/A		0 N/A	0.8%	156	Community
56.1%	30940	76.5%	28091	15.5%	2849	Private
21.9%	12090	14.6%	5359	36.6%	6731	Crown
21.6%	11933	8.9%	3254	47.1%	8679	Local Government
% of NSW total services	Total No. of services	% of NSW cremations	No. of Cremations	% of NSW burials	No. of Burials	Operator sector

13. Metropolitan Sydney, burials and cremations by operator sector

Operator sector	No. of Burials	% of Sydney burials	s No. of Cremations	% of Sydney cremations	ns Total No. of services	% of total Sydney services
Local Government		900	9.7%	0	N/A	900 3.4%
Crown		6497	69.9%	5359		
Private		1806	19.4%	11894	69% 1	13700 51.6%
Church		51	0.5%	0	N/A	51 0.2%
Community		39	0.4%	0	N/A	39 0.1%
		9293	100%	17253	100% 2	26546 100%

14. Whole of NSW, Local Government operated cemeteries, activity levels LG Cemeteries No. of facilities

>10 burials per year	188
<10 burials per year	525
Closed	286
Average burials per cemetery	8.7