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Proposed "River Gardens" Cemetery 1290 Greendale Road, Wallacia

Traffic and Parking Assessment

Ref: 20080

Date: November 2020

Issue: B

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1.0 Introduction

This report has been prepared to accompany Development Applications (Masterplan and Stage 1) to Liverpool City Council for the proposed new River Gardens Cemetery complex on Greendale Road at Wallacia (Figure 1).

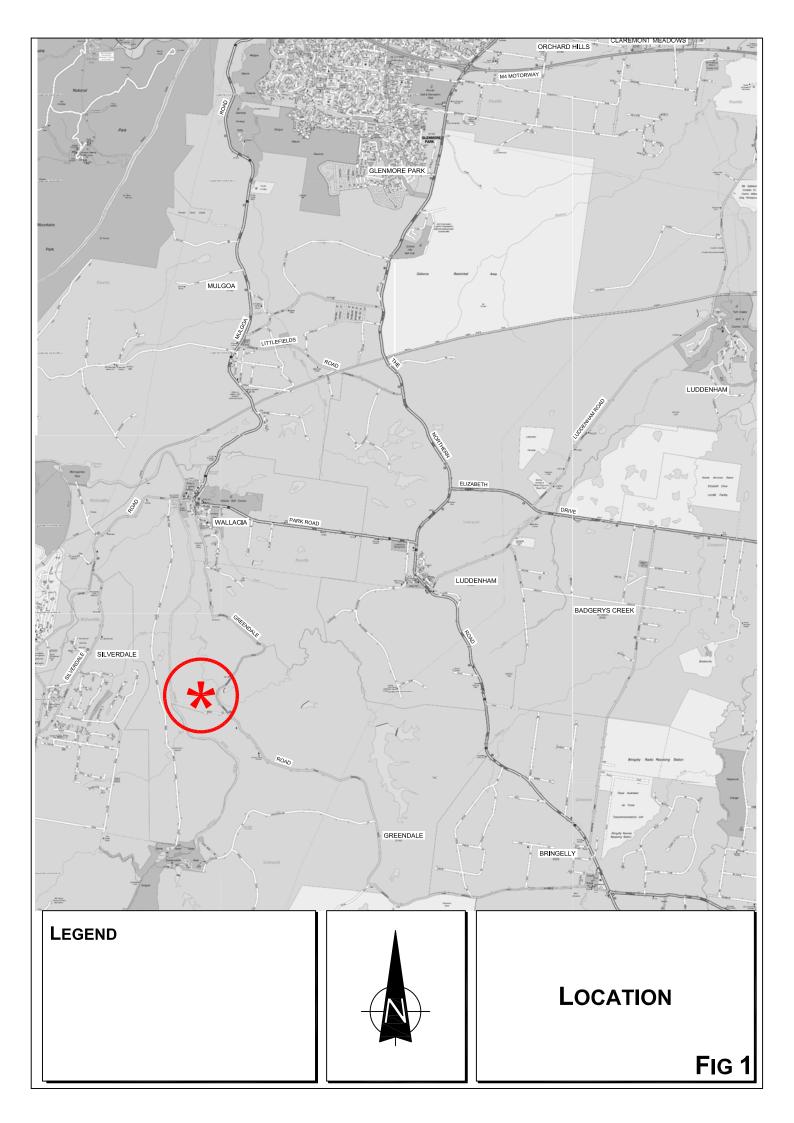
The existing cemeteries serving the Sydney Metropolitan Area generally have limited spare capacity and authorities are anxiously seeking potential new sites to meet the increasing burial demands of the aging and increasing populations within the area. These needs are greatest in the outer developing areas which are experiencing rapid urban growth, none more so than the Western Sydney Priority Growth Area. This area includes the proposed new Badgerys Creek Airport and the Western Sydney Employment Area which is spurring the accelerating residential development.

The Masterplan development scheme at Wallacia involves a large rural site with frontage to the Nepean River which is bisected by Duncans Creek. The scheme comprises:

- traditional graves
- cremation plots (inground and wall)
- mausoleum vaults
- chapel and function facilities
- administration building
- water features and vehicle / pedestrian circulation

The purpose of this report is to:

- describe the site, its context and the proposed Masterplan and Stage 1 development schemes
- describe the existing and future road network, traffic and transport circumstances
- assess the proposed vehicle access arrangements and the potential traffic implications
- assess the adequacy of the proposed parking provision
- assess suitability of the proposed internal circulation and servicing arrangements



2.0 Proposed Development Scheme

2.1 Site, Context and Existing Circumstances

The site (Figure 2) is Lot 1 in 77665 which occupies an irregular shaped area of some 73.46ha with an extensive frontage to Greendale Road located generally midway between Luddenham and Warragamba being some 4km to the south of Wallacia.

The lands to the north and east are largely unutilized former grazing land, the lands adjoining to the south and on the western side of the river are active farm lands while there are very few dwellings in the vicinity of the site.

The undulating site is currently used for grass lawn production and there are a number of farm buildings in the north eastern part of the site with a vehicle access on Greendale Road at the northern site boundary.

2.2 Proposed Masterplan Development

It is proposed to clear the site and undertake significant earthworks to provide "pads" for the buildings as well as the access road system and water features. The proposed development comprises:

		Capacity (persons)
-	Chapel (480m²)	480
-	Crematorium (1,000m²)	300
-	Mausoleums	-
-	Function Rooms (485m ²)	485
-	Administration buildings (565m ²)	50
-	Café & Florist (500m²)	300
-	Workshop / Maintenance building	-





SITE

Fig 2

The proposed capacity of the cemetery would be some 775,000 burial plots comprising:

- in-ground plots (approx. 120,000)
- cremation wall plots (approx. 100,000)
- mausoleum plots (approx. 555,000)

There is a proposed channelised access road connection to Greendale Road with comprehensive internal vehicle and pedestrian networks. There are also proposed pedestrian board walks over the extensive water features linking to mausoleum elements and a walkway with viewing points along the river frontage.

There will be a formal at-grade parking area adjacent to the main building elements and parallel parking and a footway along the access road system.

Details of the proposed Masterplan development are provided on the diagrams prepared by MKD architects which are reproduced in Appendix A.

2.3 Proposed Stage 1 Development

The proposed Stage 1 works comprise:

- PAD 1 earthworks
- Crematorium
- Chapel
- Administration building
- Gate house
- PAD 1 car park
- PAD 1 access road and intersection with Greendale Road

Details of the proposed Stage 1 elements are provided on the plans prepared by MKD Architects which accompany the Development Application and are reproduced in part in Appendix B.

3.0 Operational Circumstances of Cemeteries

There are a number of comparable existing cemeteries in the Sydney Metropolitan Area which provide a good indication of the operational circumstances which are likely to occur at the proposed cemetery.

The principal difference however, is the fact that as a new cemetery there will not (for many years) be the visitation associated with existing graves that is experienced with long-established cemeteries. A good example of this circumstance is the data from the Macquarie Park site (Appendix C) where there are very few ceremonies on Saturday or Sunday but there are still some 400 to 550 vpd accessing the site compared to some 800 vpd on a busy weekday.

Also, it is inevitable that the proposed cemetery will be developed on a staged basis as the demand for burials increases in response to the increasing population in the Western Metropolitan Area.

One particular feature of ceremonies at major cemeteries is that the Administrations are very careful in programming the ceremonies to ensure that they do not start/finish at the same time, overlap to any great extent or conflict with the occasional very large ceremony.

A comparison between 5 existing major cemeteries and the envisaged cemetery is made in the following researched data:

	Envisaged Greendale	Macquarie Park	Northern Suburbs	Pine Grove	Forest Lawn
Date Established	N.K.	1922	1933	1962	1962
Size (ha)	73.4	145	40	70.8	60
Chapels	1	5	4	3	2
Function Facility	1	5	1	1	1
Crematorium	✓	\checkmark	\checkmark	\checkmark	\checkmark

Ref. 20080 4

Burial Plots incl.	742,000	250,000	NK	40,000	120,000
Crem. & Mausoleum					
Av. Weekday Funerals	NK	12	10-12	10-11	10
Max. Funerals p.d.	NK	23	NK	NK	NK
Peak Time	NK	10am-3pm	10am-3pm	10am-3pm	11am-3pm
Parking Spaces	NK	260 + on- road	350	516	380
Normal Peak Access Movements	NK	200 vtph	150 vtph	180 vtph	140 vtph
Av. Car visitations Per Day	NK	600	500	550	450

The available data, for the comparable Macquarie Park site indicates that there is significant fluctuation in the number of persons accessing on a daily basis throughout the year and this is clearly illustrated by the vehicle ingress / egress surveys and daily "Car Log" of vehicles ingressing which are reproduced in Appendix C. Features of the recorded access movements are summarised in the following:

	Cars ingressin Per Day		
Thursdays	460 – 1,010		
Fridays	630 – 1,010		
Sat – Sun	240 – 600		

The Car Log record also details the number of ceremonies held on each day together with the weather conditions. Assessment of this data enables an estimate of the average number of cars which each ceremony generated when allowance is made for staff vehicle and casual visitor movements. It is apparent for the period May – July that the average number of cars generated per ceremony (burial or cremation) was 50 and the normal maximum was 100.

The results of automatic "tube" counts undertaken for a week in October on the ingress and egress driveways indicate peak ingress movements occurring between 10am and 2pm with a maximum of 209 and an average peak of 150vph. The peak egress movements occurred between midday and 3pm with a maximum of 245 and again an average peak of some 150vph.

Ref. 20080 5

Services are generally held between 9.30am and 3.00pm and traditionally, Thursday and Friday have the greatest number of ceremonies occurring and it is apparent that MPCC take considerable care to program the ceremonies and subsequent functions to avoid as much as possible undue "peaking" of arrivals and departures.

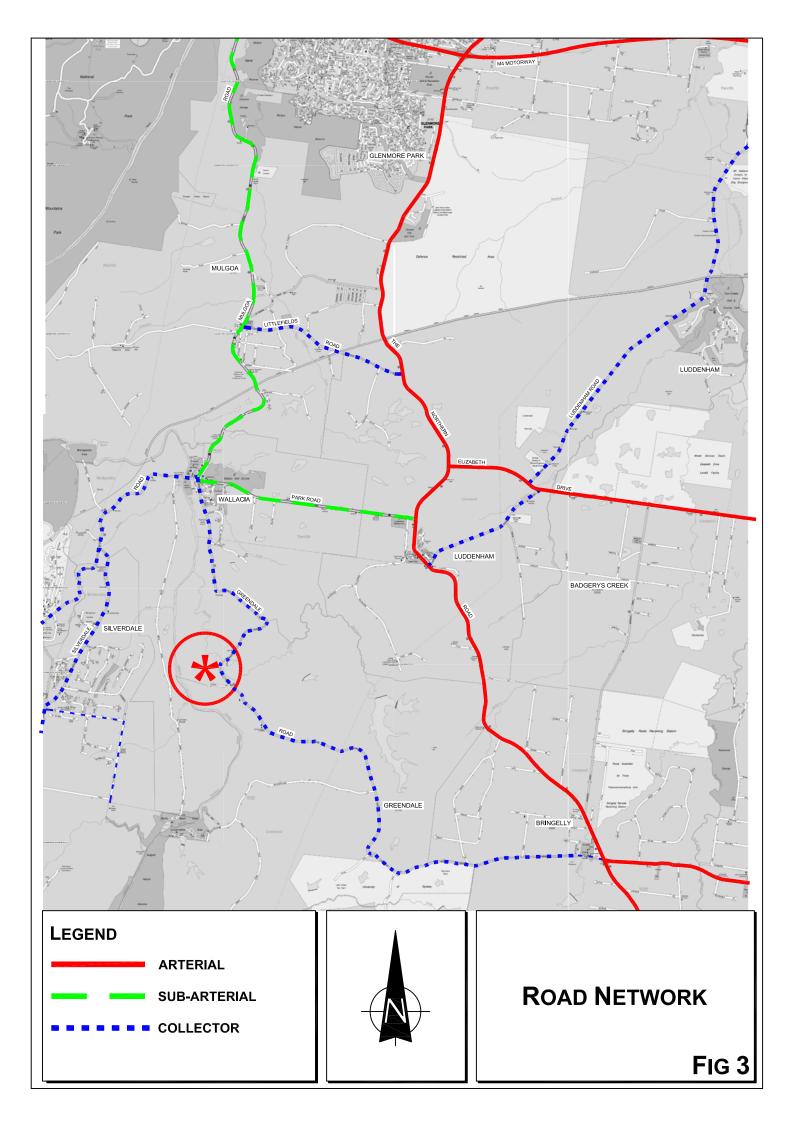
4.0 Existing Road Network and Transport Circumstances

4.1 Road Network

The road network serving the site (Figure 3) comprises:

- M4 Western Motorway a State Road and part of the major arterial route involving the M7 and Warringah / Gore Hill Freeways which extend between the Harbour crossings and Penrith. Interchange on/off ramps are provided at the Mulgoa Road interchange
- The Northern Road a State Road and north-south arterial route linking between Penrith and Narellan (currently subject to major upgrading works)
- ❖ Elizabeth Drive a State Road and east-west arterial route linking between Liverpool and The Northern Road with an interchange with the M7 Motorway
- Bringelly Road a State Road and east-west arterial route connecting between
 Leppington and The Northern Road which has recently been upgraded significantly
- Park Road a major collector road connecting between The Northern Road and Mulgoa Road
- Greendale Road a minor collector road connecting between Mulgoa Road and
 The Northern Road

Greendale Road in the vicinity of the site has one lane in each direction with supplementary lanes at with a slightly curvilinear alignment and is 7.0m wide with 1.0m wide sealed shoulders.



4.2 Traffic Controls

The existing traffic controls in the vicinity of the site are limited to:

- The 80 kmph speed restriction on Greendale Road
- the double centre line extending along Greendale Road

Further 'afield' the controls include:

- the traffic signals at the intersection of Greendale Road with The Northern Road and Bringelly Road
- the roundabout at the intersection of Park Road, Silverdale Road and Mulgoa Road and adjacent "channelised" intersection of Greendale Road and Park Road

4.3 Traffic Conditions

Traffic surveys were undertaken on Greendale Road at the site between 8.00am and 6.00pm for the period Monday 2 December and Sunday 8 December 2019.

The results of these surveys (i.e. total 2-way movement) are provided in the following:

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
8am-9am	79	61	81	59	68	27	16
9am-10am	52	49	40	38	31	19	15
10am-11am	11	14	21	15	18	12	9
11am-12pm	19	10	14	12	21	16	12
12pm-1pm	23	9	19	12	10	20	11
1pm-2pm	12	18	13	13	22	11	7
2pm-3pm	19	30	26	35	29	10	18
3pm-4pm	45	33	38	26	31	29	20
4pm-5pm	49	58	66	59	78	34	27
5pm-6pm	44	37	41	50	32	18	22

It is apparent that the traffic movements along Greendale Road are relatively minor with the maximum recorded 2-way movement being some 80 vtph.

4.4 Accident History

Details of a 5 year accident history (2014 - 2018) for a significant length of Greendale Road in the vicinity of the site (see details overleaf) only reveal 2 recorded accidents both being "single vehicle off road" accidents occurring at night.

4.5 Transport Services

There are no bus services operating along Greendale Road at the present time and the nearest available services (see Appendix D details) are:

Route 789 Penrith - Luddenham

Route 795 Penrith – Warragamba (via Wallacia) 17 services

each way Mon - Fri.

The nearest railway stations are located at Leppington and Penrith and these have frequent services connecting to the Metropolitan Rail Network.



Centre for Road Safety



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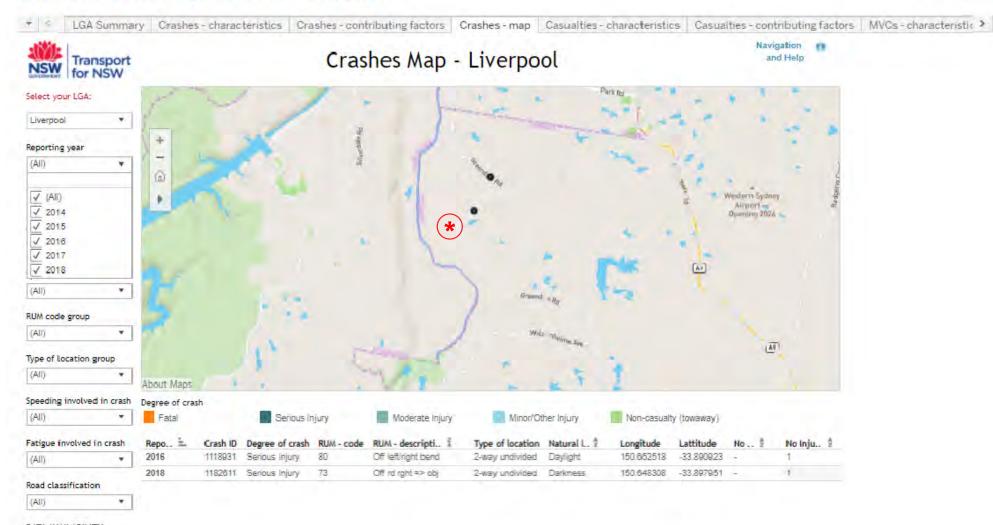
Research

Contact us

NSW Centre for Road Safety > Statistics > Interactive crash statistics > Crash and casualty statistics - LGA view

Crash and casualty statistics - LGA view





DATA AVAILABILITY

Finalised data is available for the 5 year period 2014 to 2018.

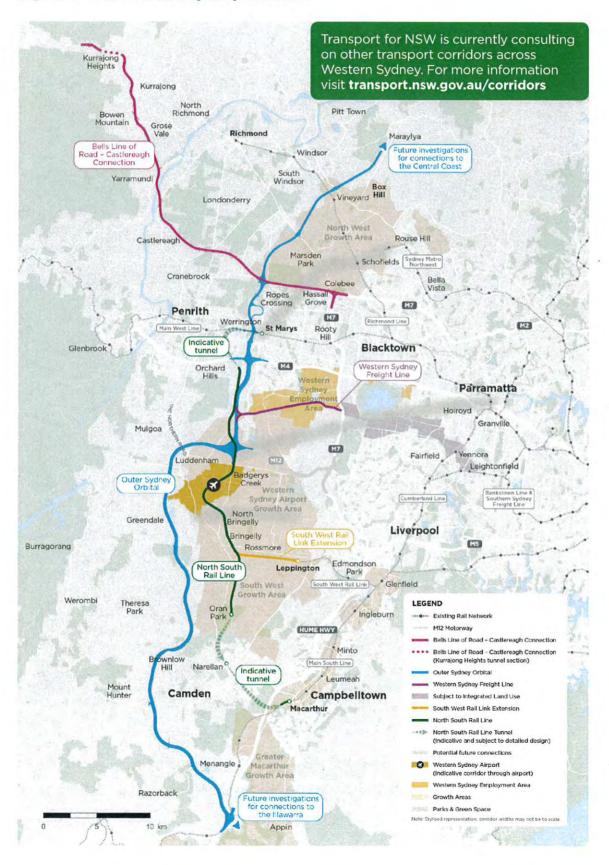
5.0 Future Road Network and Transport Circumstances

The decision to proceed with the Badgerys Creek Airport has "spurred" the planning and implementation of road and transport infrastructure. Planning has not been finalized however principal elements of the envisaged infrastructure are shown on the diagrams overleaf being:

- extension of the South West Rail Line with a station at Bringelly
- construction of a new North South Rail Line linking between Campbelltown and
 St Marys with stations at Oran Park, Bringelly, Badgerys Creek Airport
- the continued upgrading of The Northern Road route
- construction of the M12 Motorway linking between the M7 and The Northern Road and the Airport
- construction of the Outer Sydney Orbital between the M12 / The Northern Road interchange and the Hume Highway via Greendale

It is also inevitable that connecting bus services will extend into the newly developing areas.

Figure 1. The Western Sydney corridors





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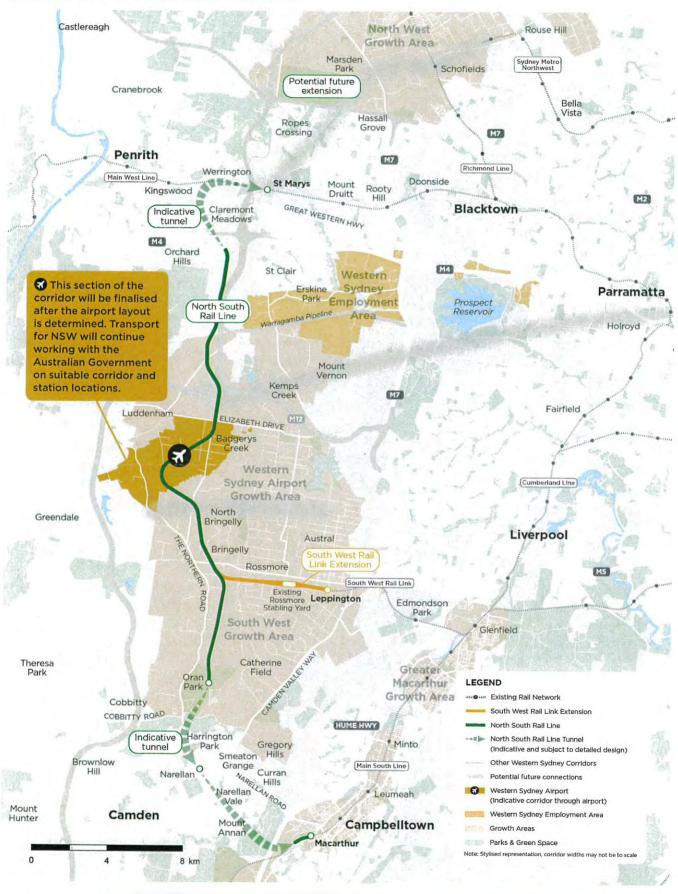
NOT TO SCALE

M12 Strategic Route Options Analysis Preferred corridor route report

Source: Roads and Maritime

FIGURE 1.1: Western Sydney Infrastructure Plan strategic map

Map of the recommended corridors for the North South Rail Line and the South West Rail Link Extension





Transport for NSW will continue working with the Australian Government, Greater Sydney Commission, Department of Planning and Environment, local councils, community and stakeholders to refine the recommended corridor.

Greater Sydney Commission's vision for three cities

The Greater Sydney Commission is leading metropolitan planning to make Greater Sydney more productive, sustainable and liveable. Its role is to coordinate and align the strategic land use planning that will shape the future of Greater Sydney.

The Greater Sydney Commission is working towards developing Greater Sydney as a metropolis of three cities. This concept would see the development of three distinct cities of Greater Sydney – the Eastern Harbour City (centred around the Harbour CBD), the Central River City (centred around Greater Parramatta) and the Western Parkland City (centred around

Western Sydney Airport, the Badgerys Creek Aerotropolis and the surrounding areas of Camden, Campbelltown, Liverpool and Penrith). This is further discussed in Section 5.4.2.

These three cities will have different strengths and are at different stages of their evolution. The growth of Greater Sydney and especially the Western Parkland City, has been considered in the Scoping Study. Population and employment changes considered in the long term assessment of rail links were developed in consultation with the Greater Sydney Commission and the NSW Department of Planning and Environment and utilised the best information available at the time.

Figure 4 Summary map of the draft Greater Sydney Region Plan



Source: Greater Sydney Commission, Draft Greater Sydney Region Plan

6.0 Traffic and Transport

Traffic

The peak generated vehicle movements at comparable cemeteries such as Macquarie Park occur in the period 10am to 3pm which is outside of the normal morning and afternoon peak periods on the road network while heightened traffic generation is largely limited to Thursday, Friday and a few special days each year.

The potential traffic generation of the proposed cemetery will be somewhat less than that of the Macquarie Park site and most likely similar or less than the Forest Lawn and Pine Grove Cemeteries particularly during the early decades of use due to limited number of visitations to burial plots. The distribution of traffic will reflect the established road network and the urban development in the Cemetery Catchment Area and again this will also change as further urban development occurs in the Region.

However, it is apparent that some 25% of traffic will distribute to / from the south on Greendale Road and some 75% to / from the north. Thus, if the normal peak access movements (10.00am - 3.00pm weekdays) there will be some 160 - 180 vtph (two-way) through the access intersection.

It is quite apparent that vehicle movements of this projected magnitude will not present any adverse operational circumstances at the proposed access intersection given:

- the low order of vehicle movements along Greendale Road
- the high capacity of the intersection with separate right and left turn lanes
- the good sight distances available
- the fact that the access movements will only occur in day light hours and largely outside of the AM and PM peak periods

Transport Services

Particular consideration has been given to the issue of the provision of transport services for the proposed development as it is understood that this has been an identified issue in relation to other proposed cemetery developments in the Liverpool City Council area.

The reality is however that the travel mode for public transport for mourners and visitors to travel to / from cemeteries is in reality very low. Macquarie Park Cemetery is located within convenient proximity to both rail and bus services however as with similar locations such as Sutherland Cemetery the experience is that the mode share to public transport services is only 1 - 2 %.

The apparent reasons for this are:

- the people attending are in mourning
- there is a strong empathy for family and friends to car share
- the funeral ceremonies are often held in churches quite some distance away
 before moving to the cemetery for burial / cremation

In reality land is not available for new cemeteries in locations where there are rail or good bus services simply because these services are provided to serve urban development where large vacant sites with no environmental impact are available.

None the less it is proposed and would be accepted as a Condition of Consent that the cemetery operator be required provide and maintain a bus service for the transport of mourners, visitors and staff to / from the major railway stations (be it Leppington, Penrith or Liverpool or in the future Bringelly) where there are bus interchange facilities available.

7.0 Parking

A large parking area with 112 spaces, including 13 accessible spaces, will be provided adjacent to the principal elements in the north eastern part of the site appropriate to the demands of those elements (see details overleaf). There will also be parallel parking accommodated along one side of the access road system with the some 3000m providing for some 400 to 500 parking spaces.

As with large cemeteries the roadway parking will generally be used for:

- parking related to separated elements (eg Mausoleum)
- parking related to visitation to burial plots (in their various forms)
- overflow parking for occasional large ceremonies
- parking related to scenic elements

The provision of 112 space plus the available on-road parking will be more than adequate for Stage 1 of the development while the large vacant areas on the site would be able to accommodate additional formal parking in the future should operational experience indicate this need (eg in the north eastern part)

It is apparent therefore that:

- the proposed parking provision for Stage 1 will be quite adequate
- there is the ability to provide significant additional parking for the completed development should this be shown to be necessary
- all large existing cemeteries "schedule" the timing of services based on the anticipated attendants, the requested length of services, the orderly use of the facilities (ie chapels and function areas)



8.0 Access, Internal Circulation and Servicing

Access

The Masterplan proposes an access intersection on Greendale Road in the northern part of the site frontage and a "gated" emergency vehicle access in the southern part. The location of the access intersection has had regard for the ability to achieve suitable sight distances. The proposed CHR / AUL arrangement for this intersection is shown on the Figure 4 concept diagram while images of the available sight distances at the proposed access and emergency access points are provided in Appendix E.

The design of the proposed access intersection will comply with the Austroads requirements and this will be provided as part of the Stage 1 works.

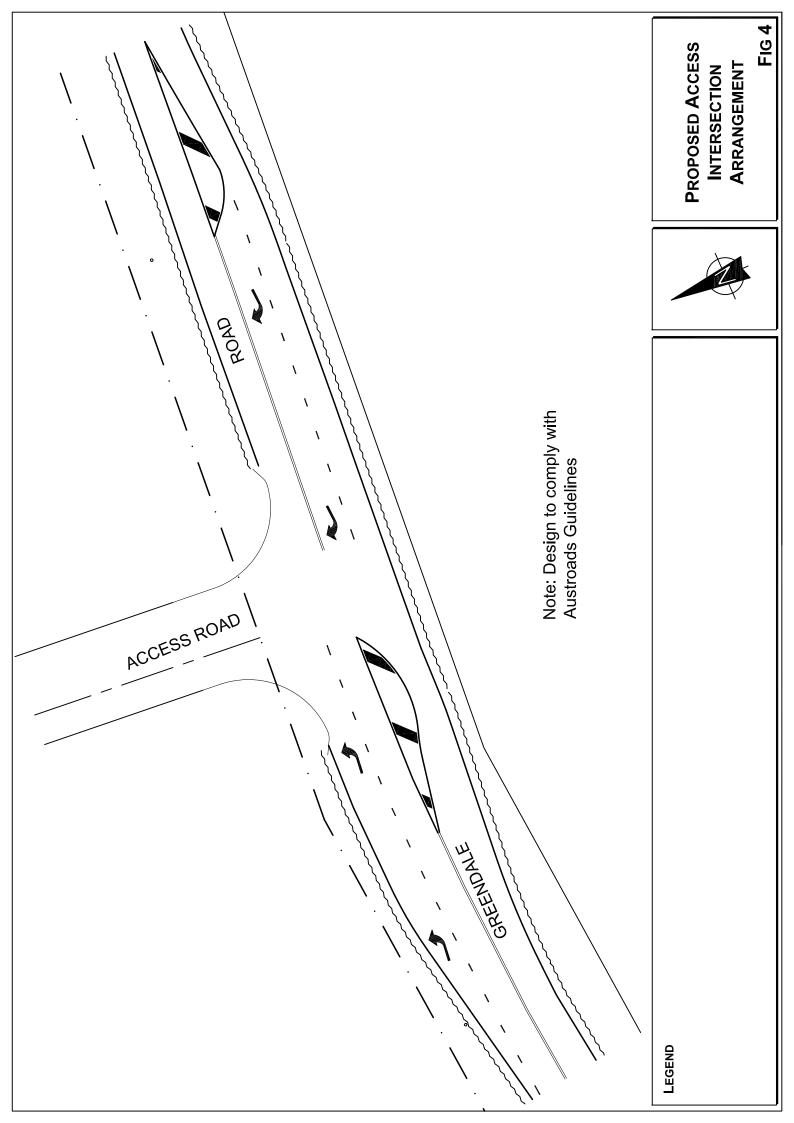
Internal Circulation

The design of the proposed access road (6.0m wide with 2.2m kerbside parking) complies with the requirements of AS2890 Austroads and there is generous provision for manoeuvring and parking. Details of the proposed roadways with parallel parking and 3.6m wide footway (on one side) are provided in Appendix F.

Servicing

The 6.0m wide carriage way in this low speed environment will be more than adequate to provide for all service and maintenance vehicles requiring access the site including:

- refuse removal
- materials delivery
- shuttle buses
- maintenance vehicles and machinery
- gas delivery (crematorium)



This is particularly the case when use of kerbside parking will be largely limited to "peak visitation days" (eg Mother's Day) or significant funerals while design provision will be given hearses to manoeuvre and park at the relevant cemetery elements.

9.0 Issues

Clarification has been sought for a number of issues in relation to the proposal namely:

Parking Provision

There is no criteria for parking provision for Cemetery use in Councils DCP or the TfNSW Development Guidelines. Details of the parking provision at a number of major existing cemeteries in the Sydney Metropolitan Area are provided in Section 3 of this report. On the basis of the development plans there will be 112 spaces provided in the formal parking area and some 400 to 500 kerbside spaces along the access road system. There will also be large unused areas on the site which could provide for additional parking in the future if there is such a need. However, the fact is that all large cemeteries carefully schedule services to ensure an orderly use of the chapels and function facilities and there is a keen awareness of any major services with an anticipated large attendance.

This scheduling by the cemetery administration will invariably act to "temper" both the demand for parking and traffic generation.

Access Road

The proposed access road comprises 6.0m for 2 way traffic movement with 2.2 for kerbside parking and 3.6m for footway (on one side).

It is considered that this design is quite appropriate because:

- 6.0m is quite adequate and appropriate for a low speed environment particularly when there will only be infrequent/intermittent use of the kerbside parking
- 3.6m is a traditional width for footways and providing for street light, sign parking etc

10.0 Conclusion

This assessment undertaken in relation to the proposed River Gardens Cemetery on Greendale Road at Wallacia has concluded that:

- there would not be any unsatisfactory traffic implications
- the proposed parking provision would be quite adequate
- the vehicle access, internal circulation and servicing provisions would be suitable and appropriate

Appendix A

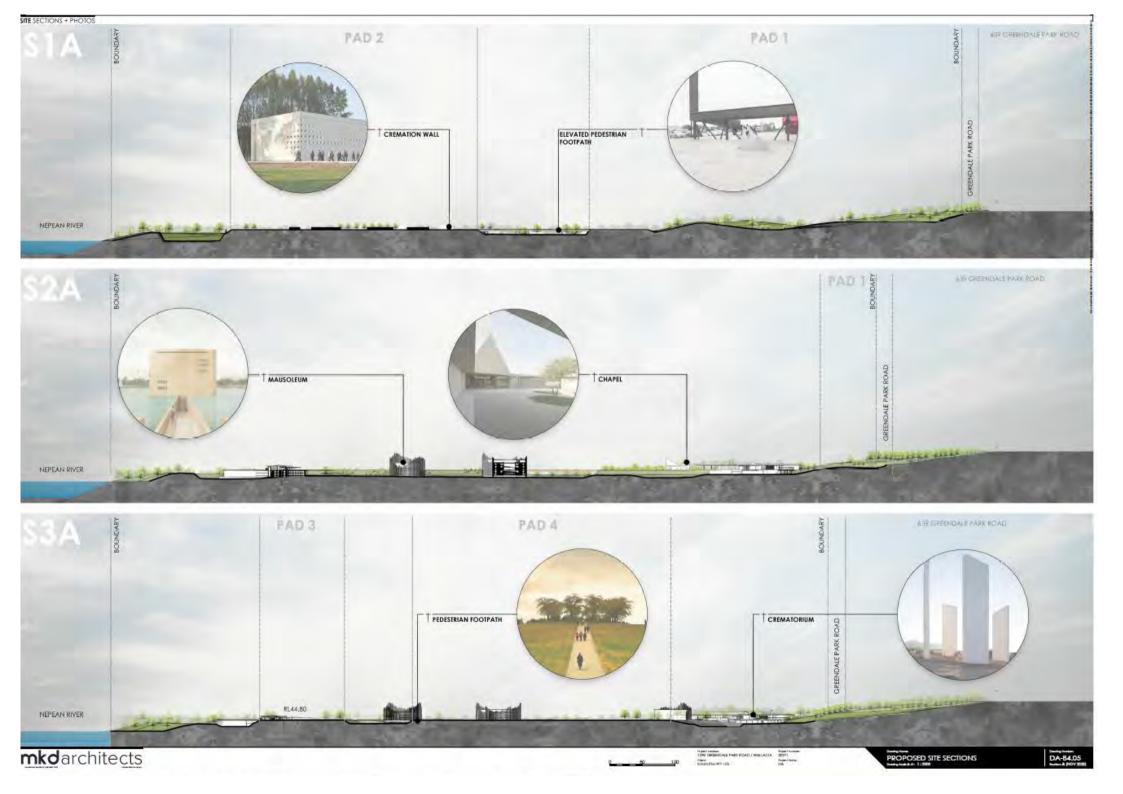
Development Masterplan

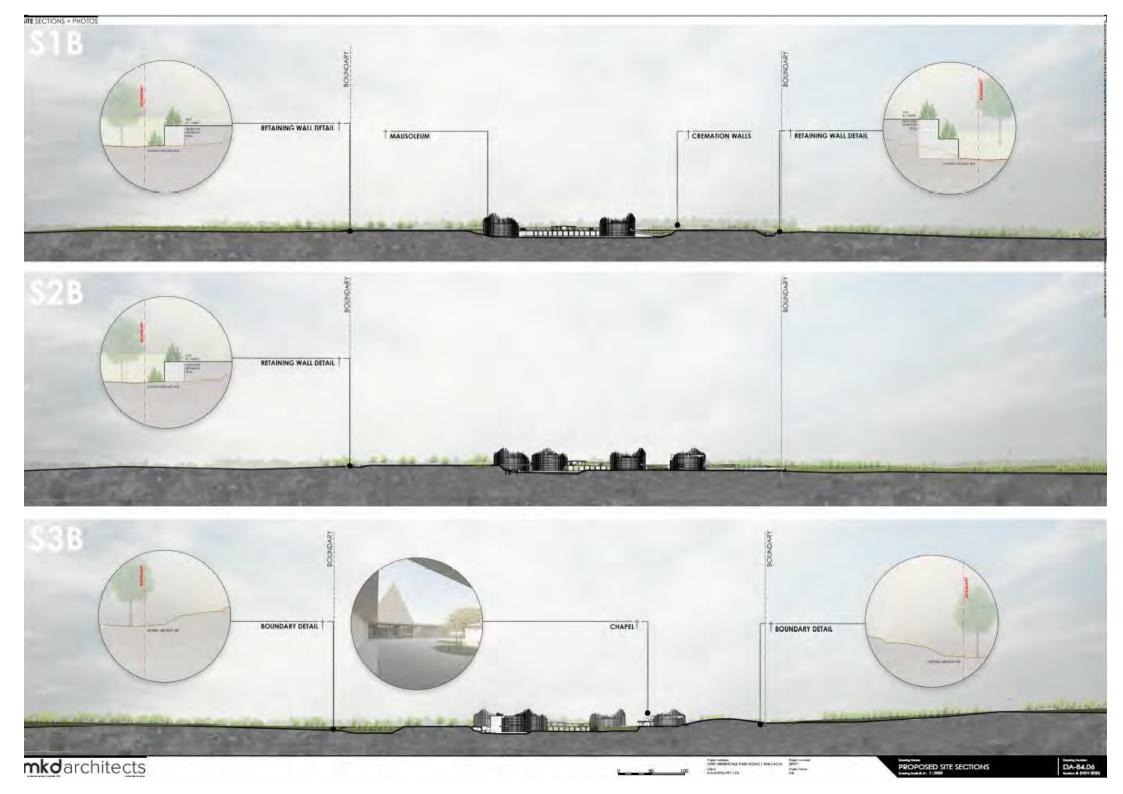








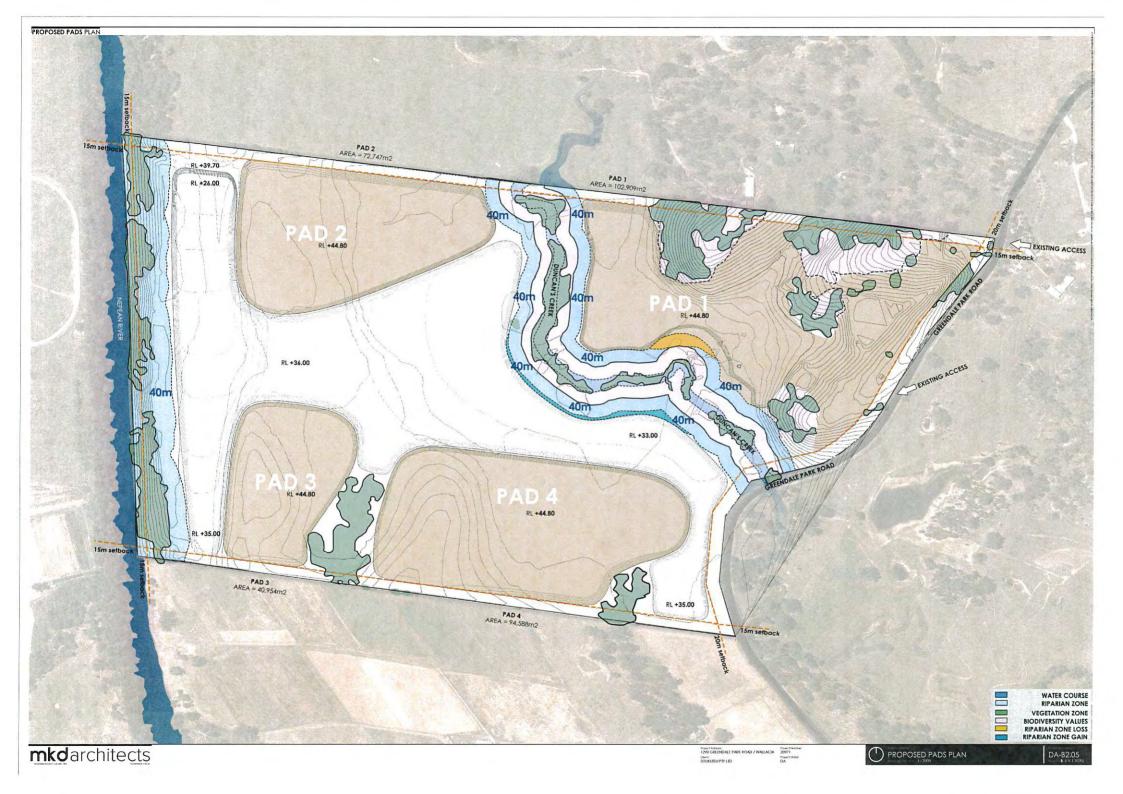




Appendix B

Stage 1 Plans



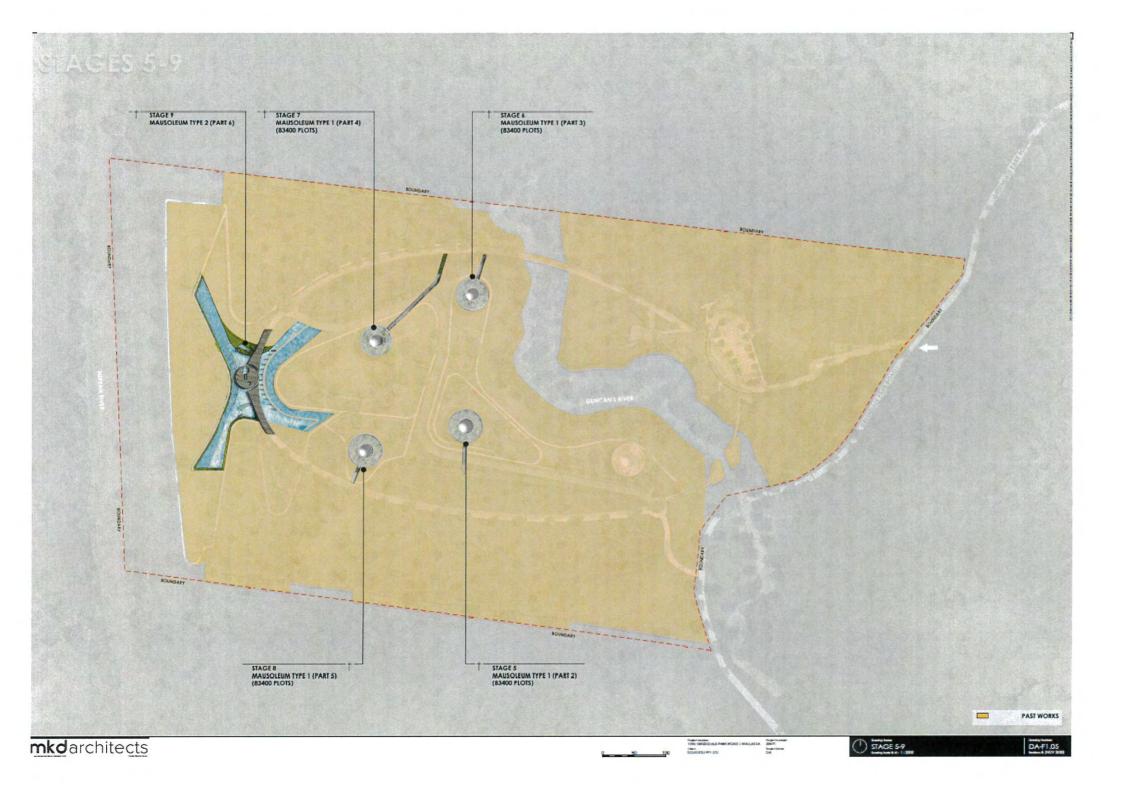


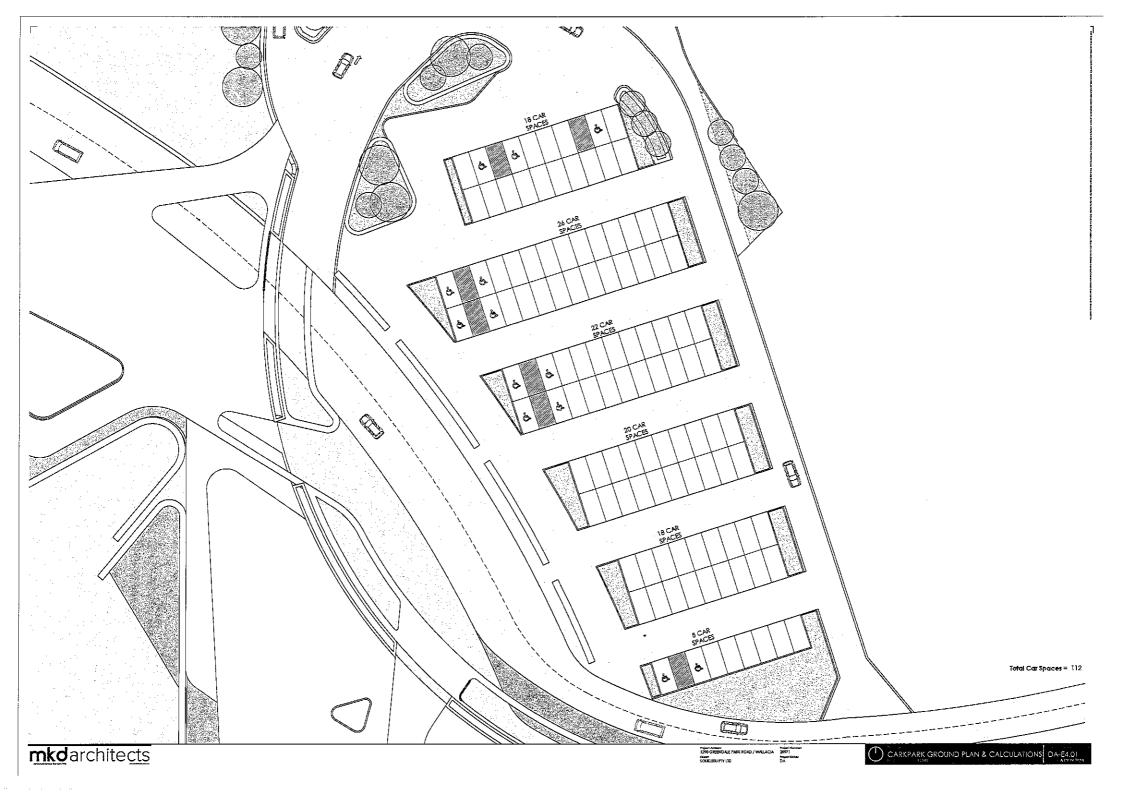












Transport and Traffic Planning Associates

Appendix C

Macquarie Park Cemetery Vehicle Access Data



Traffic Count Summary Report

Count Number	7985										
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10am - 11am	140	23	104	135	200	61	37	306	64	362	25
flam - Midday	154	90	63	2	8	160	125	493	86	778	4.
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Traffic Count Summary Report

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	Total	831	372	510	806	799	501	575	3318	 Eg	70£9	` £

MPCC Car Log

May-11

		4		# Cremations	# Burials	
Day	Date	Car Count	Weather	incl. NSNA	only	Special Ocassions
Sunday	1/05/2011		fine/sunny			
Monday	2/05/2011		fine/sunny	. 6	4	
Tuesday	. 3/05/2011		fine/showers	9	5	
Wednesday	4/05/2011		fine/sunny	12	5	
Thursday	5/05/2011		fine/sunny	12	1	
Friday	6/05/2011		fine/sunny	17	6	
Saturday	7/05/2011	574	fine/sunny	4	1	
5unday	8/05/2011	2639	sunny/warm	0	0	MOTHER5 DAY
Monday	9/05/2011	717	cold/overcast	10	4	
Tuesday	10/05/2011	618	cold/sunny	7	8	
Wednesday	11/05/2011	889	sunny/cold	13	. 4	
Thursday	12/05/2011	1011	sunny/cold	13	6	
Friday	13/04/2011	808	suny/cold	6	2	
Saturday	14/05/2011	308	sunny/cold	0	1	
Sunday	15/05/2011	547	sunny/cold	0	0	
Monday	16/05/2011	583	fine/sunny	11	2	
Tuesday	17/05/2011	658	fine/sunny	6	5	
Wednesday	18/05/2011	400	fine/sunny	· 2	1	
Thursday	19/05/2011	807	fine/sunny	9	4	
Friday	20/05/2011	566	sunny/fine	8	4	
Saturday	21/05/2011	405	sunny/fine	2	0	
Sunday	22/05/2011	556	sunny/fine	0	1	
Monday	23/05/2011	553	sunny/fine	5	2	
Tuesday	24/05/2011	591	sunny/showers	9	5	
Wednesday	25/05/2011	5 14	very cold	8	4	
Thursday	26/05/2011	872	fine/sunny	5	6	
Friday	27/05/2011	961	fine/sunny	13	2	
5aturday	28/05/2011	514	fine/overcast	1	1	
Sunday	29/05/2011	482	fine/rain	0	0	
Monday	30/05/2011	384	heavy rain	4	3	
Tuesday	31/05/2011	564	heavy rain/clearing	3	5	
		21,774		195	92	

MPCC Car Log

Jun-11

				# Cremations	# Burials	
Day	Date	Car Count	Weather	incl. NSNA	only	Special Ocassions
Wednesday	1/06/2011		fine/showers	6	1	
Thursday	2/06/2011		fine/showers	5	2	
Friday	3/06/2011		fine	7	6	
Saturday	4/06/2011		fine/sunny	1	0	
5unday	5/06/2011		fine/sunny	0	0	
Monday	6/06/2011	997	cold/sunny	10	4	
Tuesday	7/06/2011	1097	cold/sunny	11	6	
Wednesday	8/06/2011	. 793	cold/sunny	11	1	
Thursday	9/06/2011	631	cold/sunny	9	3	
Friday	10/06/2011	872	cold/sunny	8	3	
Saturday	11/06/2011	238	fine/showers	0	0	
Sunday	12/06/2011	264	rain	0	0	
Monday	13/06/2011	234	rain	0	0	
Tuesday	14/06/2011	690	rain/fine	5	3	
Wednesday	15/06/2011	434	rain	9	5	
Thursday	1 6/06/2 0 11	408	rain/fine	5	4	
Friday	17/06/2011	. 695	cold/sunny	11	4	
Saturday	18/06/2011	385	cold/sunny	2	1	•
Sunday	19/06/2011	498	cold/sunny	0	0	
Monday	20/06/2011	982	cold/sunny	10	3	
Tuesday	21/06/2011	510	cold/sunny/windy	6	4	
Wednesday	22/06/2011	590	sunny/cold	8	3	
Thursday	23/06/2011	608	sunny/fine	8	6	
Friday	24/06/2011	1008	sunny/fine	11	8	
Saturday	25/06/2011	334	sunny/fine	0	0	
Sunday	26/06/2011	505	sunny/fine	0	. 0	
Monday	27/06/2011	926	sunny/fine	14	3	
Tuesday	28/06/2011	693	overcast/showers	7	3	
Wednesday	29/06/2011	726	fine/showers	10	5	
Thursday	30/06/2011	619	fine	10	3	
		18,16 6		184	81	

MPCC Car Log

Jul-11

				Crematio		
				ns		
				incl.	# Burials	
Day	Date	Car Count	Weather	NSNA	only	Special Ocassions
Friday	1/07/2011	790	fine/sunny	7	6	
Saturday	2/07/2011		fine/sunny	3	0	
Sunday	3/07/2011		fine/sunny	0	0	
Monday	4/07/2011	579	fine/sunny	2	3	
Tuesday	5/07/2011	607	sunny/cold	11	5	-
Wednesday	6/07/2011	496	windy/sunny	6	5	
Thursday	7/07/2011	875	windy/sunny	9	6	
Friday	8/07/2011	633	cold/sunny .	5	4	
Saturday	9/07/2011	542	cold/sunny	0	0	
Sunday	10/07/2011	351	cold/sunny	1	0	
Monday	11/07/2011	471	cold/sunny	9	1	
Tuesday	12/07/2011	522	cold/sunny	9	6	
Wednesday	13/07/2011	601	overcast/cold	10	3	
Thursday	14/07/2011	. 670	fine/sunny	5	2	
Friday	15/07/2011	710	showers/cold	12	4	
Saturday	16/07/2011	383	overcast/showers	1	0	
Sunday	17/07/2011	474	showers/fine	0	0 .	
Monday	18/07/2011	850	cold/fine	7	7	
Tuesday	19/07/2011	484	showers/cold	7	2	
Wednesday	20/07/2011	435	heavy rain	12	5	
Thursday	21/07/2011	727	rain	8	5	
Friday	22/07/2011	904	rain/fine	11	7	
Saturday	23/07/2011	444	rain/fine	0	1	
Sunday	24/07/2011	523	fine/sunny	0	0	
Monday	25/07/2011	7 5 S	fine/showers	11	1	
Tuesday	26/07/2011	526	fine/sunny	7	5	
Wednesday	27/07/2011	573	fine/sunny	7	0	
Thursday	28/07/2011	672	fine/sunny	8	5	
Friday	29/07/20 1 1		fine/sunny	14	5	
Saturday	30/07/2011		fine/sunny	0	2	
Sunday	31/07/2011	471	fine/sunny	0	0	
		18,492	·	182	90	•

MPCC Car Log Aug-11

				#		
		•		Crematio		
				ns		
				incl.	# Burials	
Day	Date	Car Count	Weather	NSNA	only	Special Ocassions
Monday	1/08/2011	521	fine/sunny	7	5	
Tuesday	2/08/2011	724	sunny/warm	6	3	
Wednesday	3/08/2011	612	sunny/warm	6	2	
Thursday	4/08/2011	709	sunny/warm	8	1	
Friday	5/08/2011	777	fine	9	3	
Saturday	6/08/2011	437	fine/sunny	1	1	
Sunday	7/08/2011	403	fine/showers	0	0	
Monday	8/08/2011	459	fine/sunny	10	2	
Tuesday	9/08/2011	445	fine/sunny	6	1	
Wednesday	10/08/2011	500	fine/sunny	7	2	
Thursday	11/08/2011	791	fine/sunny	11	3	
Friday	12/08/2011	770	rain	. 16	2	
Saturday	13/08/2011	471	fine	2	2	
Sunday	14/08/2011	492	fine/showers	1	0	
Monday	15/08/2011	785	fine	10	0	
Tuesday	16/08/2011			9	3	
Wednesday	17/08/2011			10	2	
Thursday	18/08/2011			7	2	
Friday	19/08/2011			13	4	
Saturday	20/08/2011					
Sunday	21/08/2011					
Monday	22/08/2011					
Tuesday	23/08/2011					
·	24/08/2011					
Thursday	25/08/2011					
Friday	26/08/2011					
Saturday	27/08/2011					
Sunday	28/08/2011					
Monday	29/08/2011					
Tuesday	30/08/2011					
Wednesday	31/08/2011					

139

38

8,896

Transport and Traffic Planning Associates Appendix D **Bus Services** ttpa



781 789 795

Penrith, St Marys, Luddenham and Warragamba

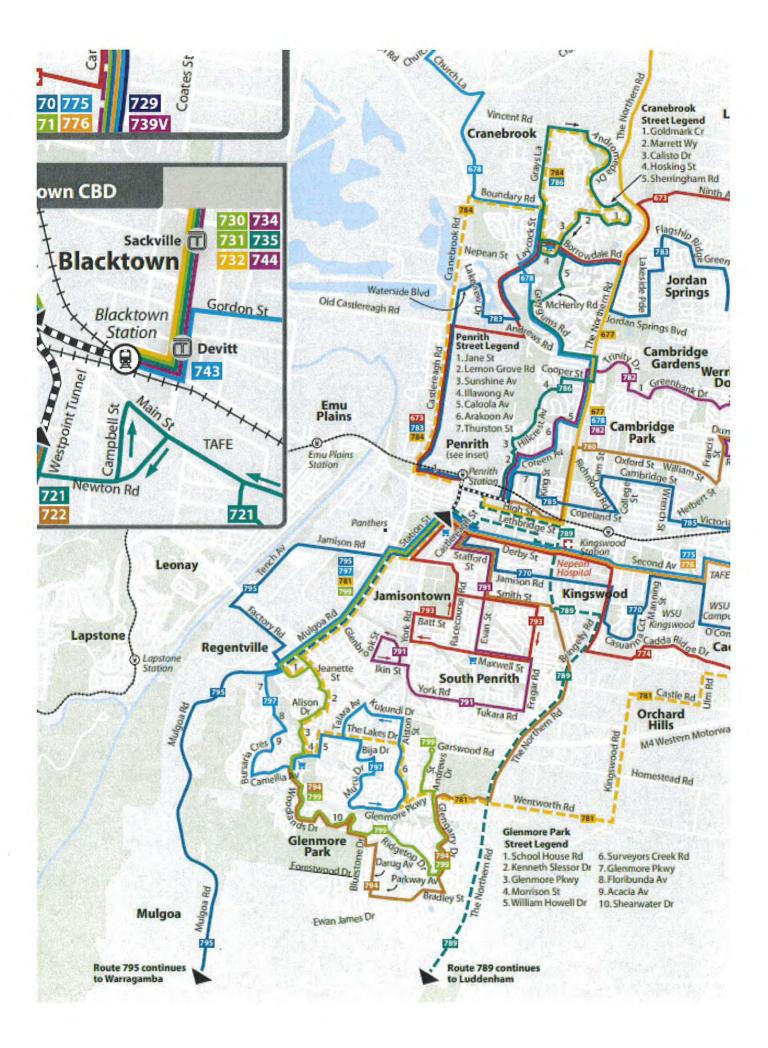
servicing Jamisontown, Glenmore Park, Warragamba, Orchard Hills, Luddenham & Claremont Meadows



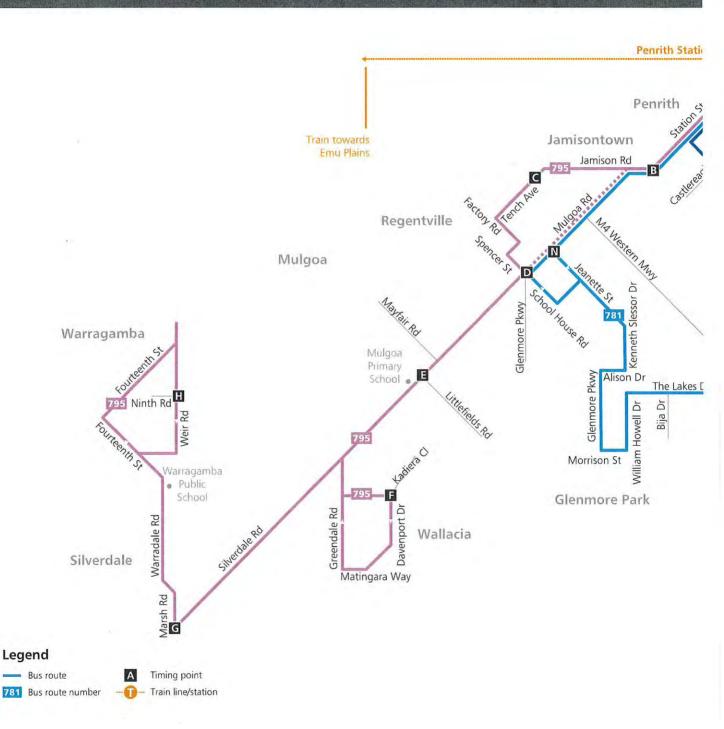
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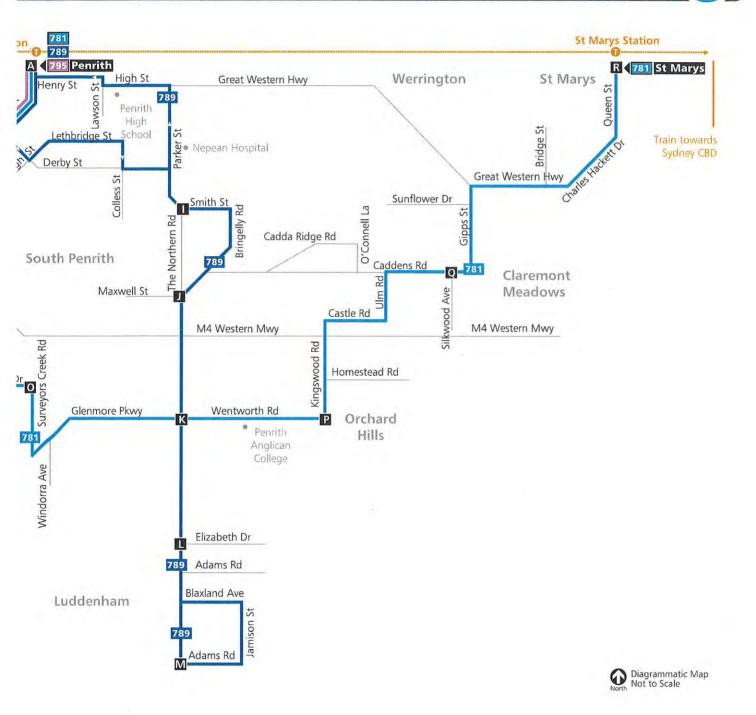






Routes 781, 789, 795





	Monday to Friday		ন্	ন্
map	map. Service information	781 781 781	. <i>1</i> 81	>781
K	R St Marys Interchange	I	1	14:59
O	Q Claremont Meadows Caddens Road & Silkwood Ave J07:33 08:34 R15:07	J07:33	08:34	R15:07
<u>a</u>	P Orchard Hills Wentworth Road & Kingswood Road	07:52	07:52 08:41 15:22	15:22
0	Glenmore Park Surveyors Creek Rd & The Lakes Dr	08:02	08:02 08:49	
Ω	D Regentville Mulgoa Road & Spencer Street	08:13 09:00	00:60	1
B	B Penrith Station Street & Jamison Road	08:20 09:07	09:07	1
⋖	A Penrith Interchange	08:27 09:15	09:15	ı

	Monday to Friday		(4)	· 4)	(4)
map	map Service information	781 781 781 781	781	781	781
∢	A Peririth Interchange	i	06:56	I	16:26
œ	B Penrith Station Street & Jamison Road	I	06:59	ı	16:31
Z	N Regentville Jeanette Street & Mulgoa Road	I	07:04	I	16:38
0	Glenmore Park Surveyors Creek Rd & The Lakes Dr	I	07:13	I	16:45
Δ.	P Orchard Hills Wentworth Road & Kingswood Road	R06:59	07:21	R06:59 07:21 08:00 16:51	16:51
0	Q Claremont Meadows Caddens Road & Silkwood Ave	07:13	07:31	07:13 07:31 08:10 17:02	17:02
R	R St Marys Interchange	07:23	07:23 07:41 08:20	08:20	ı

	Monday to Friday		
ref	Service information	789	789
Σ	M Luddenham Adams Road & The Northern Road	07:28	16:26
Η	L Luddenham The Northern Road & Elizabeth Drive	07:32	16:29
\mathbf{Y}	K Orchard Hills The Northern Road & Wentworth Road	07:41	16:37
一	Kingswood Bringelly Road & The Northern Road	07:46	16:42
	Nepean Hospital Derby Street & Parker Street	07:54	16:48
⋖	A Penrith Interchange	08:02	16:56

Monday to Friday	789 789	789	∴48 <i>5</i>
	D06:57 S15:37 HQ15:41	15:37	HQ15:41
Nepean Hospital Derby Street & Parker Street	07:05 S	15:49	S15:49 H15:49
I Kingswood Bringelly Road & The Northern Road Pl	P07:11 \$15:54 H15:54	15:54	H15:54
K Orchard Hills The Northern Road & Wentworth Road 0	07:15 \$16:05 H15:59	16:05	H15:59
Luddenham The Northern Road & Elizabeth Drive	07:23	516:12	H16:07
M Luddenham Adams Road & The Northern Road C	07:27	16:18	S16:18 H16:11

	Monday to Friday	(¢.	. ()		.ক	\$ \$.÷)	(A)	\$ \$	\$	*\to	*4)
map	map Service information	795	795 795 795	795	262	. 795	_46/_	262	795	795 795 795 795 795 795	362	795
I	H Warragamba Weir Road & Ninth Street	05:34	06:37	06:37 J06:59	08:02	09:21	10:38	13:38	08:02 09:21 10:38 13:38 H15:07 S15:07	\$15:07	16:42	M17:25
ט	G Silverdale Marsh Road & Silverdale Road	05:39	06:42	06:42 07:04 08:07 09:25 10:42 13:42	08:07	09:25	10:42	13:42	H15:11 S15:15	\$15:15	16:46	ı
ш	F Wallacia Davenport Drive & Kadiera Close	05:49	06:52	07:16	08:18	09:35	10:52	13:52	05:49 06:52 07:16 08:18 09:35 10:52 13:52 H15:21 S15:55	\$15:55	16:56	1
ш	E Mulgoa Mulgoa Road & Littlefields Road	05:58	07:01	07:28	08:27	09:43	11:00	14:00	H15:29	S16:03	17:04	M17:35
Δ	D Regentville Mulgoa Road & Spencer Street	06:05	07:08	07:39	08:38	09:20	11:07	14:07	H15:36	06:05 07:08 07:39 08:38 09:50 11:07 14:07 H15:36 S16:11 17:12 17:43	17:12	17:43
Ū	C Nepean Shores Resort Tench Avenue	1	07:13	1	08:43	08:43 09:55 11:12 14:12	11:12	14:12	ı	ı	1	1
œ.	Penrith Station Street & Jamison Road	06:10	07:20	06:10 07:20 07:47	08:48	10:00	11:17	14:17	H15:43	08:48 10:00 11:17 14:17 H15:43 S16:18 17:19 17:50	17:19	17:50
۷	A Penrith Interchange	06:16	07:27	07:56	08:57 1	10:09	11:26	14:26	H15:52	11:26 14:26 H15:52 S16:27	17:28	17:58

	Saturday	. 4)	.ન્)	. 4 ý	. ф
map ref	Service information	795	795 795 795	795	· 56 <i>L</i>
I	Warragamba Weir Road & Ninth Street	08:17	10:22	14:37	08:17 10:22 14:37 M16:37
ט	G Silverdale Marsh Road & Silverdale Road	08:22	08:22 10:27 14:42	14:42	1
ш	F Wallacia Davenport Drive & Kadiera Close	08:31	10:36 14:51	14:51	ı
Ш	E Mulgoa Mulgoa Road & Littlefields Road	08:39	10:44	14:59	08:39 10:44 14:59 W16:48
Δ	D Regentville Mulgoa Road & Spencer Street	08:47	08:47 10:52 15:07 16:55	15:07	16:55
U	C Nepean Shores Resort Tench Avenue	08:52	08:52 10:57 15:12	15:12	į
Δ	B Penrith Station Street & Jamison Road	08:56	08:56 11:01 15:16	15:16	17:02
A	A Penrith Interchange .	09:04	09:04 11:09 15:24 17:10	15:24	17:10

	Sunday & Public Holidays	. 4)	.∙€)	, 40	Ċ,
map ref	map Service information	_195	795 795 795	795	_ 262
Ţ	H Warragamba Weir Road & Ninth Street	ı	10:43	1	M17:03
IJ	G Silverdale Marsh Road & Silverdale Road	I	10:47	ı	I
ш	F Wallacia Davenport Drive & Kadiera Close	I	10:57	ı	I
ш	Mulgoa Mulgoa Road & Littlefields Road	ı	11:04	ı	W17:16
Δ	D Regentville Mulgoa Road & Spencer Street	09:24	09:24 11:11 14:24 17:23	14:24	17:23
U	C Nepean Shores Resort Tench Avenue	I	11:15	l	I
8	B Penrith Station Street & Jamison Road	09:29	09:29 11:19 14:29 17:31	14:29	17:31
⋖	A Penrith Interchange	09:37	09:37 11:28 14:37 17:39	14:37	17:39

	Monday to Friday	÷	·4)	(ئ.	. ((¢.	. 49			. ₄ ()	. 4 9	. 4)
E S	map Service Information	795	795 795 795 795 795 795 795 795 795	36/	795	_795	795	795	100	795 795		795
∢	A Penrith Interchange	206:26	9E:90H	07:22 08:28 09:47	08:28	09:47	14:09	15:30	15:44	14:09 15:30 15:44 16:33 18:03	18:03	19:03
В	B Penrith Station Street & Jamison Road	506:29	H06:39	07:26 08:32 09:52 14:14 15:35 15:49 16:38 18:08	08:32	09:52	14:14	15:35	15:49	16:38	18:08	19:07
U	C Nepean Shores Resort Tench Avenue	1	ı	1	ı	95:60	09:56 14:18 15:39	15:39	ı	ı	1	ı
Δ	D Regentville Mulgoa Road & Spencer Street 506:34 H06:44	506:34	H06:44	07:31 08:37 10:01 14:23 15:45 15:56 16:45 18:13 19:11	08:37	10:01	14:23	15:45	15:56	16:45	18:13	19:11
Ш	E Mulgoa Mulgoa Road & Littlefields Road	SW06:42	SW06:42 HW06:52 W07:39 08:51 10:08 14:32 15:52 16:05 16:52 18:20 19:18	W07:39	08:51	10:08	14:32	15:52	16:05	16:52	18:20	19:18
Ш	F Wallacia Davenport Drive & Kadiera Close	ı	1	I	08:58	10:15	14:40	16:00	16:13	08:58 10:15 14:40 16:00 16:13 17:00 18:27 19:25	18:27	19:25
ט	G Silverdale Marsh Road & Silverdale Road	1	!	W07:51 09:10 10:27 14:55 16:14 16:28 17:13 18:40 19:38	09:10	10:27	14:55	16:14	16:28	17:13	18:40	19:38
T	H Warragamba Weir Road & Ninth Street	SU06:56	SU06;56 HU07:06 07:58 09:17 10:34 15:03 16:22 16:36 17:21 18:48	07:58	09:17	10:34	15:03	16:22	16:36	17:21	18:48	19:46

:	Saturday	⊕	. (\$)	. 4)	. 4)
map Pef	map Service information	795 795 795	262	795	795
∢'	A Penrith Interchange	09:47	13:47	13:47 15:47 18:47	18:47
66 .	B Penrith Station Street & Jamison Road	09:52	13:52	13:52 15:52 18:52	18:52
Ū	C Nepean Shores Resort Tench Avenue	ı	13:55	13:55 15:55 18:55	18:55
	D Regentville Mulgoa Road & Spencer Street	09:56 14:00 16:00 19:00	14:00	16:00	19:00
ш	E Mulgoa Mulgoa Road & Littlefields Road	W10:04 14:08 16:08 19:08	14:08	16:08	19:08
ш	F Wallacia Davenport Drive & Kadiera Close	ı	14:16	14:16 16:16 19:16	19:16
Ū	G Silverdale Marsh Road & Silverdale Road	I	14:28	14:28 16:28 19:28	19:28
Ξ	Warragamba Weir Road & Ninth Street	U10:19 14:35 16:35 19:35	14:35	16:35	19:35

	Sunday & Public Holidays	ক	. .()	· 4)	·•)
map	map Service Information	795	795 795 795	. <u>7</u> 95	795
∢	A Penrith Interchange	09:10	09:10 10:10 14:10 16:10	14:10	16:10
ш	B Penrith Station Street & Jamison Road	09:14		10:14 14:14	16:14
U	C Nepean Shores Resort Tench Avenue	09:17	I	14:17	14:17 16:17
Ω	D Regentville Mulgoa Road & Spencer Street	09:23	10:19	10:19 14:23 16:23	16:23
Ш	Mulgoa Mulgoa Road & Littlefields Road	t	W10:27	1	16:31
ш	F Wallacia Davenport Drive & Kadiera Close	ı	ı	1	16:40
Ū	G Silverdale Marsh Road & Silverdale Road	!	I	ı	16:51
T	H Warragamba Weir Road & Ninth Street	1	U10:41	Ι	16:58

Timing Points

- A Penrith Interchange
- Penrith Station Street & Jamison Road
- Nepean Shores Resort Tench Avenue
- Regentville Mulgoa Road & Spencer Street
- Mulgoa Mulgoa Road & Littlefields Road
- Wallacia Davenport Drive & Kadiera Close
- G Silverdale Marsh Road & Silverdale Road
- Warragamba Weir Road & Ninth Street
- Nepean Hospital Derby Street & Parker Street
- Kingswood Bringelly Road & The Northern Road
- Corchard Hills The Northern Road & Wentworth Road
- Luddenham The Northern Road & Elizabeth Drive
- M Luddenham Adams Road & The Northern Road
- Regentville Jeanette Street & Mulgoa Road
- Glenmore Park Surveyors Creek Road & The Lakes Dr
- Orchard Hills Wentworth Road & Kingswood Road
- Claremont Meadows Caddens Road & Silkwood Ave
- R Claremont Meadows Gipps Street & Great Western Highway
- St Marys Interchange

Explanation of definitions and symbols

- **D** Bus operates via Derby St, omitting Castlereagh St, Lethbridge St & Colless St.
- H Bus operates public school holidays only.
 - Public school holidays bus operates through timing point 10 minutes later than time shown.
- Bus operates from Weir Rd via Farnsworth Ave to Silverdale Rd, omitting Warradale Rd, Marsh Rd & part of Silverdale Rd. Passengers from Silverdale to Penrith should join bus on outward journey.
- P. Bus operates via Parker St direct, omitting Smith St & Bringelly Rd. Time shown is in the Northern Rd.
- Q: Public school holidays bus operates via Dery St, omitting Casstlereagh St, Lethbridge St & Colless St.
- R Bus operates from Caddens Rd & Ulm Rd via Caddens Rd, O'Connell La, Cadda Ridge Dr, Caddens Rd, Braeburn St, Cadda Ridge Dr, O'Connell La & Caddens Rd, returning to Ulm Rd.
- S Bus operates public school days only.
- Bus operates from Silverdale Rd via Farnsworth Ave to Weir Rd, omitting part of Silverdale Rd, Warradale Rd & Marsh Rd. Passengers for Silverdale should stay on bus & alight on return journey.
- W Bus operates via Mulgoa Rd direct to Silverdale Rd, omitting Wallacia loop.

Wheelchair Accessible



Warragamba to Penrith



Valid from: 27 April 2020					April 202 correct on		ownload.		
Monday to Friday	6	8	Ł		6	ė	ė	d	6
Service Information			S	5					
Penrith Station	-	-	06:26	-	07:22	-	08:28		09:47
Station St at Jamison Rd, Penrith			06:29	-	07:26		08:32		09:52
Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville	8.		06:34	*	07:31	e	08:37	*	09:56 10:01
Nepean District Christian School, Mulgoa	1.	4		-2	E	14	08:45	-	-
Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd opp Ninth St, Warragamba	05:34	06:37	B06:42	- T 06:59	B 07:39	08:02	08:51	09:21	10:08
Weir Rd (Warragamba PS), Warragamba	05:35	06:38	-	07:00	-	08:03	-	09:22	-
Marsh Rd opp Silverdale Rural Fire Brigade, Silverdale	05:39	06:42	-	07:04	Ξ	08:07	-	09:25	-
Davenport Dr before Kadiera Cl, Wallacia Mulgoa Public School Mulgoa Rd, Mulgoa	05:49 05:58	06:52 07:01	-	07:16 07:28		08:18 08:27	08:58	09:35 09:43	10:15
Nepean District Christian School, Mulgoa Regentville Auto Mulgoa Rd near Spencer St,	06:05	07:08	-	07:39	Ē,	08:31 08:38	Ē	09:50	+
Regentville			-		-		-		-
Nepean Shores Resort Tench Av, Jamisontown		07:13	-	-54		08:43	-	09:55	-
Na Hunter Oval Station St, Penrith	06:10	07:20	-	07:47	-	08:48	-	10:00	+
Penrith Station	06:16	07:27	-	07:56	- D07.F4	08:57	-	10:09	40.0
Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba	-	Į.	A06:56	-	B07:51 07:58		09:10 09:17	-	10:27
Monday to Friday Service Information	Ł	6	b	ė. S			ė.	b	6
Penrith Station		-	14:09		15:30	15:44	14	16:33	-
Station St at Jamison Rd, Penrith	-	-	14:14	8	15:35	15:49	1.2	16:38	-
Nepean Shores Resort Tench Av, Jamisontown	÷	-	14:18	~	15:39	-	14	-	-
Regentville Auto Mulgoa Rd near Spencer St, Regentville			14:23	197	15:45	15:56	+	16:45	
Mulgoa Public School Mulgoa Rd, Mulgoa			14:32		15:52	16:05	- 1	16:52	-
Weir Rd opp Ninth St, Warragamba	10:38	13:38	-	15:07	-	-	16:42	-	D17:2
Weir Rd (Warragamba PS), Warragamba	10:39	13:39	-	15:10	-	=	16:43		17:20
Marsh Rd opp Silverdale Rural Fire Brigade, Silverdale	10:42	13:42	_	15:15	-	-	16:46	-	-
Davenport Dr before Kadiera Cl, Wallacia Mulgoa Public School Mulgoa Rd, Mulgoa	10:52 11:00	13:52 14:00	14:40	15:55 16:03	16:00	16:13	16:56 17:04	17:00	B17:3
Regentville Auto Mulgoa Rd near Spencer St, Regentville	11:07	14:07	-	16:11	-	-	17:12		17:4:
Nepean Shores Resort Tench Av, Jamisontown	11:12	14:12	-	-	-	-	-	-	-
Na Hunter Oval Station St, Penrith	11:17	14:17	-	16:18	-	-	17:19	-	17:5
Penrith Station	11:26	14:26	-	16:27	H.	-	17:28	0.7	17:58
Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba	-		14:55	2	16:14 16:22	16:28 16:36		17:13	-
			15:03					17:21	~
Monday to Friday	6		13,03					17:21	
	18:03	6	15.05					17:21	
Penrith Station Station St at Jamison Rd, Penrith	18:03 18:08	19:03 19:07	15.03					17:21	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St,	18:03	19:03 19:07	15.03					17:21	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa	18:03 18:08 18:13 18:20	19:03 19:07 19:11 19:18	15.03					17:21	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia	18:03 18:08 18:13 18:20 18:27	19:03 19:07 19:11 19:18 19:25	15.03					17:21	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale	18:03 18:08 18:13 18:20 18:27 18:40	19:03 19:07 19:11 19:18 19:25 19:38	15.03					17:21	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba	18:03 18:08 18:13 18:20 18:27	19:03 19:07 19:11 19:18 19:25 19:38	15.03	6	۵	٤.	Ł	17:21	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46					Ł		
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46		8 13:47 13:52	b	5:47 15:52	-	& 18:47 18:52	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St,	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46		<u>ه</u> 13:47	£ -	٤ 15:47	, d.	<u>ن</u> 18:47	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56	55	& 13:47 13:52 13:55 14:00	£ -	15:47 15:52 15:55 16:00		8 18:47 18:52 18:55 19:00	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56	6	8 13:47 13:52 13:55 14:00	8	15:47 15:52 15:55 16:00		& 18:47 18:52 18:55	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd opp Ninth St, Warragamba	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56 B10:04	& - - - - 10:22	13:47 13:52 13:55 14:00	٤ - - - - - 14:37	15:47 15:55 15:55 16:00	D16:37	18:47 18:52 18:55 19:00	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd Opp Ninth St, Warragamba Weir Rd (Warragamba PS), Warragamba	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56 B10:04	10:22	& 13:47 13:52 13:55 14:00 14:08	٤ - - - - 14:37 14:38	15:47 15:52 15:55 16:00		8 18:47 18:52 18:55 19:00	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd opp Ninth St, Warragamba Weir Rd (Warragamba PS), Warragamba Weir Rd (Warragamba PS), Warragamba Marsh Rd opp Silverdale Rural Fire Brigade,	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56	& - - - - 10:22	13:47 13:52 13:55 14:00	٤ - - - - - 14:37	15:47 15:52 15:55 16:00	D16:37	8 18:47 18:52 18:55 19:00	
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Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd opp Ninth St, Warragamba Weir Rd (Warragamba PS), Warragamba Marsh Rd opp Silverdale Rural Fire Brigade, Silverdale Davenport Dr before Kadiera Cl, Wallacia	18:03 18:08 18:13 18:20 18:27 18:40 18:48	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56 B10:04	10:22	& 13:47 13:52 13:55 14:00 14:08	٤ - - - - 14:37 14:38	15:47 15:52 15:55 16:00 16:08	D16:37	8 18:47 18:52 18:55 19:00	
Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd opp Ninth St, Warragamba Weir Rd (Warragamba PS), Warragamba Marsh Rd opp Silverdale Rural Fire Brigade, Silverdale Davenport Dr before Kadiera Cl, Wallacia Mulgoa Public School Mulgoa Rd, Mulgoa Regentville Auto Mulgoa Rd, Mulgoa Regentville Auto Mulgoa Rd, Mulgoa	18:03 18:08 18:13 18:20 18:27 18:40 18:48 6 6 6 6 7 7 8:17 08:18 08:22 08:31	19:03 19:07 19:11 19:18 19:25 19:38 19:46 6 09:47 09:52 09:56 B10:04	10:22 10:23 10:27	13:47 13:52 13:55 14:00	14:37 14:38 14:42 14:51	15:47 15:52 15:55 16:00 16:08	D16:37 16:38	8. 18:47 18:52 18:55 19:00	
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Monday to Friday Penrith Station Station St at Jamison Rd, Penrith Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Rd near Spencer St, Regentville Mulgoa Rd, Mulgoa Rd, Mulgoa Davenport Dr before Kadiera Cl, Wallacia Silverdale Rural Fire Brigade, Marsh Rd, Silverdale Weir Rd at Ninth St, Warragamba Saturday Penrith Station Station St at Jamison Rd, Penrith Nepean Shores Resort Tench Av, Jamisontown Regentville Auto Mulgoa Rd near Spencer St, Regentville Mulgoa Public School Mulgoa Rd, Mulgoa Weir Rd (Warragamba PS), Warragamba Marsh Rd opp Silverdale Rural Fire Brigade, Silverdale Davenport Dr before Kadiera Cl, Wallacia Mulgoa Public School Mulgoa Rd, Mulgoa Regentville Auto Mulgoa Rd near Spencer St, Regentville Nepean Shores Resort Tench Av, Jamisontown Na Hunter Oval Station St, Penrith Penrith Station Silverdale Rural Fire Brigade, Mislyerdale	18:03 18:08 18:13 18:20 18:27 18:40 18:48 08:17 08:18 08:22 08:31 08:39 08:47	8 19:03 19:07 19:11 19:18 19:25 19:38 19:46 09:47 09:52 09:56 B 10:04	10:22 10:23 10:27 10:36 10:44 10:52	13:47 13:52 13:55 14:00 14:08	14:37 14:38 14:42 14:51 14:59 15:07	15:47 15:52 15:55 16:00 16:08	D16:37 16:38 - - B16:48 16:55	8. 18:47 18:52 18:55 19:00	



Warragamba to Penrith



Sunday & Public Holidays	6	6	6.	6	6.	6	COLUMN TO STANK
Penrith Station	09:10	10:10		14:10	16:10	-	
Station St at Jamison Rd, Penrith	09:14	10:14	-	14:14	16:14	-	
Nepean Shores Resort Tench Av, Jamisontown	09:17	-	-	14:17	16:17	-	
Regentville Auto Mulgoa Rd near Spencer St, Regentville	L09:23	10:19	3	L14:23	16:23	-	
Mulgoa Public School Mulgoa Rd, Mulgoa	-	B10:27	-	-	16:31	1	
Weir Rd opp Ninth St, Warragamba	-	-	10:43	-	-	D17:03	
Weir Rd (Warragamba PS), Warragamba	-	-	10:44	150	-	17:04	
Marsh Rd opp Silverdale Rural Fire Brigade,	_	-	10:47	-	-	-	
Silverdale	-	-		-	-	-	
Davenport Dr before Kadiera Cl, Wallacia	-	-	10:57	-	16:40	-	
Mulgoa Public School Mulgoa Rd, Mulgoa		-	11:04		_	B17:16	
Regentville Auto Mulgoa Rd near Spencer St,	09:24	-	11:11	14:24	-	17:23	
Regentville		-			-		
Nepean Shores Resort Tench Av, Jamisontown	_	-	11:15	-	-	-	
Na Hunter Oval Station St, Penrith	09:29	-	11:19	14:29	-	17:31	
Penrith Station	09:37	-	11:28	14:37	-	17:39	
Silverdale Rural Fire Brigade, Marsh Rd, Silverdale	1	-	-	-	16:51	-	
Weir Rd at Ninth St, Warragamba	8.3	A10:41	-	-	16:58	14	

Transport and Traffic Planning Associates

Appendix E

Road Images at Access Points











Transport and Traffic Planning Associates

Appendix F

Road Design Plans



