

**Submission
No 27
Attachment 2**

**INQUIRY INTO ENROLMENT CAPACITY IN INNER CITY
PUBLIC PRIMARY SCHOOLS**

Organisation: City of Sydney
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ATTACHMENT 02:

SGS Economics and Planning (2014) 'Future Provision of Green Square Social Infrastructure'

Sections relevant to the provision of schools are:

- 1.0 Introduction (***page 1***)
- 2.2 Population Projections 2011-2031 (***page 3-4***)
- 3.0 Desktop Audit of Priority Social Infrastructure (***page 6-7***)
 - 3.1 Education and Child Care
- 4.0 Social Infrastructure Future Demand (***page 11-13***)
 - 4.1 Education
- 5.0 Conclusion (***page 18***)

Future Provision of Green Square Social Infrastructure

Final Report

City of Sydney

18 September 2014



Independent insight.



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SGS Economics and Planning Pty Ltd
ACN 007 437 729
www.sgsep.com.au
Offices in Canberra, Hobart, Melbourne and Sydney

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1 INTRODUCTION

The purpose of this report is to recommend the future requirements for various types of social infrastructure within the Green Square City South Village, located in the City of Sydney. These recommendations will be based on both the population projections and current social infrastructure present in Green Square City South Village.

The report is structured as follows:

- Chapter 2 outlines current geographical, population and dwelling projection data for the Green Square City South Village.
- Chapter 3 provides a desktop audit of priority social infrastructure types within the Village, noting infrastructure outside the Village boundaries where appropriate.
- Chapter 4 outlines how the projected population changes between 2011 and 2031 will impact demand for the specified priority social infrastructure services and facilities, and suggests future provision requirements.

This report should be read in conjunction with the report *Social Infrastructure Benchmarks* and associated tables, prepared by SGS Economics and Planning as Stage 1 of this work.

Future requirements for child care identified in this report are based on information in a separate Child Care Needs Analysis undertaken for the City of Sydney in 2013.

Many of the social infrastructure benchmarks that are available, and have been used as input to these reports relate to planning for greenfield developments. Benchmarks intended for use in greenfield areas need to be applied with caution when used in the context of infill development, given that there may already be extensive social infrastructure provision in established areas.

The social infrastructure benchmarks used in this report generally relate to the resident population. COS have advised that in planning for open space and community facilities, they generally make an addition allowance of 20 per cent of workforce demand in addition to resident demand.¹ The workforce in the COS is projected to increase from 434,820 in 2013 to 557,760 by 2031. This includes an increase of 13,202 in the workforce in Green Square & City South. Around 60% of all City residents who are in the labour force both live and work in the City of Sydney LGA.²

¹ Advice provided in an email from Allison Heller, COS, 4 September 2014.

² City of Sydney Child Care Needs Analysis 2013, page 8.

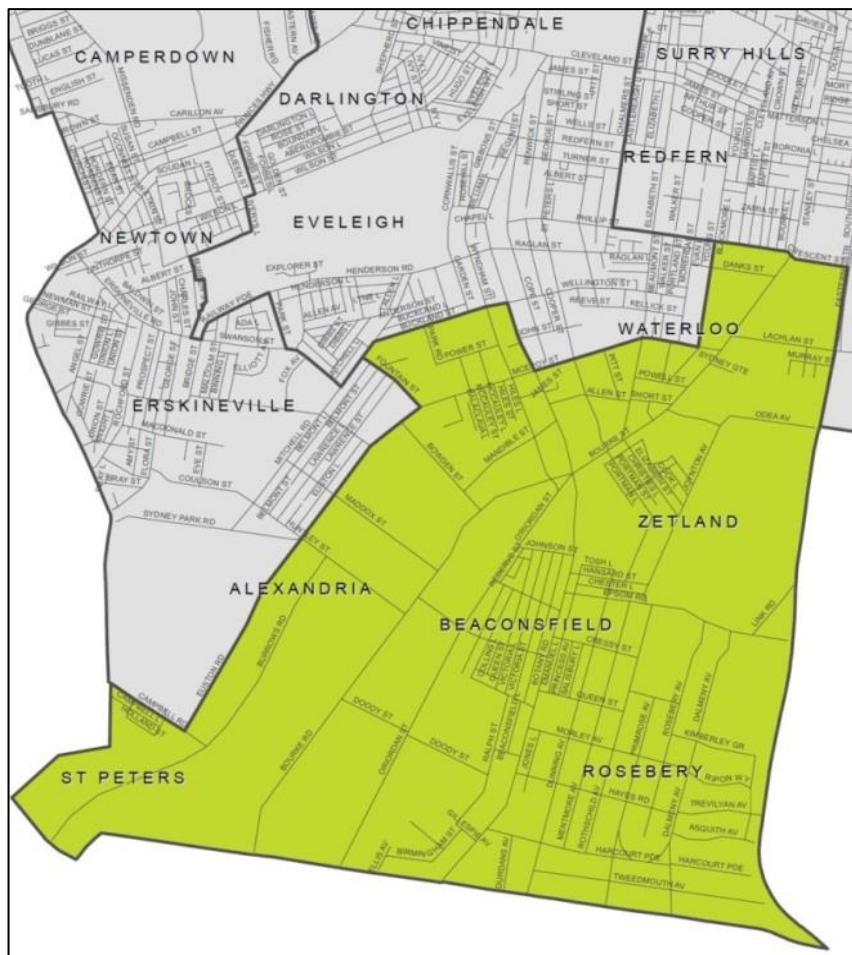
2 DEMOGRAPHIC CONTEXT

This section reviews current available geographical, population and dwelling data for the Green Square and City South Village. For each demographic area, data on Green Square and City South Village is presented in comparison to demographic projections of the wider Southern Sydney area. Southern Sydney is an amalgamation of Green Square and City South Village, King Street Village and Redfern Street Village.

2.1 The Green Square and City South Village

Figure 1 below identifies the Green Square and City South Village within its local context.

FIGURE 1. GREEN SQUARE AND CITY SOUTH VILLAGE CONTEXT WITHIN THE CITY OF SYDNEY



Source: City of Sydney, 2014

The Village encompasses the neighbourhoods of Zetland, Rosebery and Beaconsfield, which are well established and renowned for their high amenity and heritage homes. The Village also contains the suburbs of Alexandria and St Peters which has a mix of low and high density housing intermingled with light industry. Alexandria Park, Sydney Park and Moore Park provide green space within the village (City

of Sydney, 2014). The Green Square Town Centre is the largest urban renewal project in the southern hemisphere.

2.2 Population Projections 2011-2031

The tables below outline various population projections for the Green Square and City South Village, showing expected population numbers currently (2011), in the short term (2016), medium term (2021) and longer term (2031).

Between 2011 and 2031, the Green Square and City South Village population will increase by 169%. Much of this growth is expected to occur by 2016, however there is still high levels of growth projected up until 2031. In this same timeframe, wider Southern Sydney is projected to increase in population by 90%, albeit with a more evenly distributed rate of growth through the short, medium and long term timeframes.

TABLE 1. OVERALL POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	20,103	30,499	41,113	54,172
% change in population between years	-	52%	35%	32%
Southern Sydney	60,777	77,917	94,656	115,602
% change in population between years	-	28%	21%	22%

Source: City of Sydney, 2014

As Table 2 shows, the population of babies and pre-schoolers is set to dramatically increase within the Green Square and City South Village, with a population increase between 2011 and 2031 of 207%.

TABLE 2. BABIES AND PRE-SCHOOLERS (0-4) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	950	1654	2395	2921
% change in population between years	-	74%	45%	22%
Southern Sydney	2647	3604	4692	5582
% change in population between years	-	36%	30%	19%

Source: City of Sydney, 2014

As shown below, the number of children between the age of five and eleven will also increase radically from 2011 to 2031. Southern Sydney will also experience strong growth in this age demographic yet at a lower rate than Green Square and City South Village.

TABLE 3. PRIMARY SCHOOLERS (5-11) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	775	1186	1887	2680
% change in population between years	-	53%	59%	42%
Southern Sydney	1994	2515	3513	4691
% change in population between years	-	26%	40%	34%

Source: City of Sydney, 2014

Table 4 below outlines the large increase expected for children of secondary school age within the Green Square and City South Village. Between 2011 and 2031, this age cohort will grow by 226%.

TABLE 4. SECONDARY SCHOOLERS (12-17) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	536	803	1109	1748
% change in population between years	-	50%	38%	58%
Southern Sydney	1316	1562	1962	2830
% change in population between years	-	19%	26%	44%

Source: City of Sydney, 2014

Overall, there is projected to be a large increase in children from ages 0-17. If realised, this increase in child population will affect the provision of a number of facilities in the Green Square and City South Village including schooling, health care and other social services. This is further explored in chapter 4.

As shown in the table below, Green Square and City South Village will experience less growth in the tertiary education and independence age group than wider Southern Sydney. This is likely due to the location of three major universities being located in other areas close by.

TABLE 5. TERTIARY EDUCATION AND INDEPENDENCE (18-24) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	3363	4242	4728	5653
% change in population between years	-	26%	11%	20%
Southern Sydney	10,104	13,144	14,353	15,547
% change in population between years	-	30%	9%	8%

Source: City of Sydney, 2014

The table below demonstrates the dramatic population increase that is projected for the young workforce in Green Square and City South village. This is likely due to the growing availability of accommodation within the area that is seen as attractive for inner city workers. From 2011 to 2031, the population of the young workforce (ages 25-34) will increase by 151%.

TABLE 6. YOUNG WORKFORCE (25-34) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	6724	11,338	14,785	16,898
% change in population between years	-	69%	30%	14%
Southern Sydney	19,005	25,867	31,089	34,506
% change in population between years	-	36%	20%	11%

Source: City of Sydney, 2014

As well as the young population experiencing large levels of growth, the senior and elderly populations of Green Square and City South Village are also projected to rise. The 70- 84 cohort will rise by a staggering 320%, and will increase from 2021 to 2031 alone by 72%. This in part is due to Australia's overall population, however Green Square and City South village is expected to increase in age at a larger rate than the wider Southern Sydney.

TABLE 7. SENIORS (70-84) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	613	945	1499	2575
% change in population between years	-	54%	59%	72%
Southern Sydney	2342	3049	4201	6250
% change in population between years	-	30%	38%	49%

Source: City of Sydney, 2014

This trend is also echoed in the age cohort of 85 and over; with Green Square and City South seeing a 91% increase in the elderly population between 2011 and 2016.

TABLE 8. ELDERLY (85 AND OVER) POPULATION PROJECTIONS

Area	2011	2016	2021	2031
Green Square and City South	89	170	254	351
% change in population between years	-	91%	49%	38%
Southern Sydney	340	426	557	728
% change in population between years	-	25%	31%	31%

Source: City of Sydney, 2014

An ageing population has implications for the provision of key services, including Aged Care, hospitals, emergency services and general health care. The provision of these services will be further explored in section 4.

2.3 Dwelling Projections

The following tables depict future dwelling projections within the Green Square and City South Village compared to Southern Sydney. Dwellings in Green Square and City South are predicted to increase by 179% between 2011 and 2031. The comparatively large increase in dwellings in Green Square and City South is what is driving the large population increase seen in the area.

TABLE 9. DWELLINGS PROJECTIONS 2011- 2031

Area	2011	2016	2021	2031
Green Square and City South	9183	14,069	19,110	25,480
% change in dwellings	-	53%	36%	33%
Southern Sydney	28,827	35,942	44,123	54,933
% change in dwellings	-	25%	23%	24%

Source: City of Sydney, 2014

3 DESKTOP AUDIT OF PRIORITY SOCIAL INFRASTRUCTURE

This section provides a desktop audit of priority social infrastructure types within the Green Square and City South Village.

3.1 Education and Child Care

Primary Schools

There is one primary school located within the Green Square and City South Village boundary. Gardeners Road Public School currently has 264 enrolments. Green Square School is also located within the Green Square and City South Village Catchment. Green Square School is a National Partnerships Low Socio Economic Status special school catering for students with significant behavioural difficulties for students aged 10-15 year (year 5 to year 10).

Provision of primary and secondary schools by the Department of Education and Communities is based on a service planning methodology that firstly involves enrolment demand management, through adjustment of school catchment boundaries. The Department’s service planning methodology takes account of forecast capacity of existing schools, with regard to enrolment trends and schools’ specified geographic catchments.

There are currently three primary schools in the Green Square catchment area: Alexandria Park Community School (primary school campus), Bourke Street Public School and Gardeners Road Public School.³

Alexandria Park Community School is an R to 12 school across two campuses. The main primary school campus is on the corner of Park Road and Power Avenue and the secondary school campus is on Mitchell Road, Alexandria.

TABLE 10. PRIMARY & SECONDARY SCHOOLS IN THE GREEN SQUARE ENROLMENT CATCHMENT AREA

No.	School name	Address
Primary school		
1	Alexandria Park Community School	Park Road, Alexandria (primary school campus)
2	Bourke Street Public School	590 Bourke Street, Surry Hills
3	Gardeners Road Public School	827 Botany Rd, Roseberry
Secondary school		
1	Alexandria Park Community School	Mitchell Road, Alexandria

Source: NSW Department of Education and Communities, 2014

³ Advice provided in an email from Allison Heller, COS, 9 September 2014.

Secondary Schools

There is one secondary school within the Green Square and City South Village, Alexandria Park Community School. It is a R to 12 school, located at the northern boundary of the Green Square and City South Village.

There is one education facility for Indigenous Adults; the Aboriginal Education Council located at Alexandria Park Community Centre, Corner of Park Rd and Power Ave. The Aboriginal Education Council offers educational scholarships for Aboriginal students who have fallen outside the net of any other assistance.

Before and After School Care

Before and after school care services are provided at Gardeners Road Public School. The SMOOSH program can cater for 60 children after school finishes and 45 children in before school commences.

TABLE 11. BEFORE AND AFTER SCHOOL CARE CENTRES IN GREEN SQUARE AND CITY SOUTH VILLAGE CATCHMENT

No.	Name	Address	Description	Capacity
1	SMOOSH Before, After, Vacation Care	Cnr Gardeners & Botany Rd, Rosebery	Gardeners Road Public School. Provides out of school hours care and vacation care for primary school aged children.	60 places after school, 45 in the morning.

Source: NSW Department of Education and Communities, 2014

Day care

There are nine day care centres located in the Green Square and City South Village, each with varying capacity levels and age groups that they cater for. Most are located within the suburb of Rosebery. This high number of centres may be attributed to people who don't live in the area but work in the city and hence use these day care facilities for ease of drop off and pick up.

TABLE 12. DAY CARE CENTRES IN GREEN SQUARE AND CITY SOUTH VILLAGE CATCHMENT

No.	Name	Address	Description	Capacity
1	Angels of the Bay	34-36 Dalmeny Ave, Rosebery	Pre-School for children aged 2 and above	59
2	Froebel - Alexandria	Suite 7105/177-219 Mitchell Rd, Alexandria	Long Day Care for children aged 6 weeks to 6 years	44
3	Kimberley Long Day Care	83-93 Dalmeny Ave, Rosebery	Long Day Care for children aged 0-6 years	41
4	Learn and Laugh	Unit 330, 4 Stedman St, Rosebery	Long Day Care 6 weeks to 6 years	41
5	Moore Park Children's Early Learning Centre	319/5 Potter St, Waterloo	Long Day Care for children aged 6 months to 5 years	39
6	Moore Park Early Learning Centre 2	10 Broome St, Waterloo	Long Day Care for children aged 6 months to 5 years	77
7	Rosebery Child Care Centre	1 Harcourt Pde, Rosebery	Long Day Care, for children aged 6 weeks-5 years	40
8	Rosebery Cottage	101 Rothschild Ave, Rosebery	Childcare for children aged 0- 3 years	35
9	Rosebery Cottage Pre-school	103 Rothschild Ave, Rosebery	Pre-School care for children aged 3-5 years	20

Source: NSW Department of Education and Communities, 2014

TAFEs

There are no TAFE campuses within the Green Square and City South Village. As TAFEs are planned on a regional level it is important to factor in facilities located nearby. There are three TAFEs located within a three kilometre radius, being:

- TAFE NSW in Redfern
- TAFE NSW – The Design Centre in Enmore
- Randwick TAFE.

Universities

Universities are also planned on a regional level and such it is necessary to both look within and outside Green Square and City South Village to understand the community access to these facilities. There are no university campuses within the Green Square and City South boundary, however situated close by (within a two kilometre radius) there are three campuses:

- The University of Sydney in Camperdown
- University of Technology in Ultimo
- The University of New South Wales.

3.2 Health, Aged Care and Disability Services

Hospitals

There are no hospitals located within the catchment area. However within a 3km radius there are four hospitals; being

- Royal Prince Alfred Hospital
- St Vincents Hospital
- Bondi Junction Private Hospital
- Prince of Wales Private Hospital.

Green Square and City South village residents could access these facilities.

Primary Health Care Centre

There are five primary health care centres located within Green Square and City South Village. Their capabilities range from general practice to psychology and naturopathy services.

Alpha Health Clinic which is also located within Green Square in Alexandria, provides general, emergency dental as well as other dental procedures.

Children's Health Centre

There is no children's health centre located within Green Square and City South Village. The nearest Early Childhood Health Centre is at 228 Illawarra Rd Marrickville. However, the Life Medical Clinic and Singer Medical Practice list paediatric care in their offered services. Despite this, there are no designated child health professionals located in the Village.

Aged Care Facilities

There are no aged care facilities located within the Green Square and City South Village. There are however the four located close to the Village boundary, being:

- Annie Green Court in Redfern
- Frederic House in Waterloo
- Castellorizian Nursing Home in Kensington
- St Josephs Aged Care Facility for Religious, in Kensington.

TABLE 13. GP MEDICAL CENTRE IN GREEN SQUARE AND CITY SOUTH VILLAGE CATCHMENT

Site name	Address	GPS	Specialist Services
Green Square Medical Practice	2/3 Defries Ave Zetland	2 (plus 2 specialists)	General Practice Preventative Health Services Family Health Aged care services Sexual Health Surgical Procedures Counselling
Life Medical Clinic	Shop 162, 822 Bourke St, Waterloo	5 (plus 3 specialists)	General Practice Antenatal Shared Paediatric care Women's Health, Men's Health, Sexual Health Skin checks & minor surgery Mental Health Care Workers Compensation Addiction Pathology
Med West Medical Centre	230 Botany Road, Rosebery	2 (plus 1 allied health professional)	Family Health Immunisations Skin Cancer Checks Workers Compensation Naturopath Services
Singer Medical Practice	242 Gardeners Rd, Rosebery	1	Aged, chronic and complex care Antenatal care, women's health Child health and immunisation Health promotion, nutrition Men's health Mental health, drug and alcohol Pathology, in-house investigation Travel vaccinations Work Cover
Sonic Health Plus Alexandria	Shop 1, 85 O'Riordan Street, Alexandria	Not available (at least 1)	Occupational Health Injury Management Employment Medicals Drug and Alcohol Testing Travel Medicine General Practice Seasonal Vaccination

Source: City of Sydney, 2014, various.

3.3 Emergency, Fire and Police Services

Ambulance Stations

There are no ambulance stations located in Green Square and City South Village. However three Ambulance station are located within a 5km radius, being:

- Paddington Ambulance Station
- Mascot Ambulance Station
- St John Ambulance Glebe Division.

Fire Services

There is one fire rescue station located in Green Square and City South Village, located in the suburb of Alexandria. Redfern Fire Station is also located close by.

TABLE 14. FIRE RESCUE STATIONS IN GREEN SQUARE AND CITY SOUTH VILLAGE CATCHMENT

Site name	Address
Alexandria Fire Station	189 Wyndham St, Alexandria

Police Services

There are no police stations in Green Square and City South Village, however there are eight within a five kilometre radius, being:

- Marrickville Police Station
- Newtown Police Station
- Leichhardt Police Station
- Surry Hills Police Station
- Paddington Police Station
- Waverley Police Station
- Randwick Police Station
- Mascot Police Station.

Other Social Infrastructure

Other community facilities located in the Green Square and City South Village are:

- Three Aquatic and Recreation Facilities
- Six community centres (including one youth centre)
- One library (The Green Square Library and Customer Service Centre).

4 SOCIAL INFRASTRUCTURE FUTURE DEMAND

This section outlines how the projected population changes between 2011 and 2031 will impact demand for the specified priority social infrastructure services and facilities, and suggests future provision requirements. It will also include information on the need for specialist services based on demographic information.

The following table provides the benchmarks of social infrastructure provision based on population levels identified in the Stage 1 report. These benchmarks will be used so as to estimate the number of facilities required in the present (2011), short term (2016), medium (2021) and longer term (2031) timeframes.

TABLE 15. SERVICE PROVISION NEEDS AND BENCHMARKS

Service or Facility Type	Benchmark.
Primary Schools	1 primary school caters for around 500 students.
Secondary Schools	1 government high school caters for up to 1200 students
Before and After School care	1 place for every 25 children aged 5-12 years.
Childcare	As in separate Child Care Needs Analysis Report 2013
TAFE	1 TAFE to cater for a population of 300,000 – 500,000
University	1 university for every 150,000 people
Hospitals	2.3 beds per 1,000 people.
Primary Health Care Centre (including mental health)	1 new primary care centre per 50,000 people.
GP Medical Centres	1 GP per 4,000 people
Children’s Health Services	1 early childhood nurse per 2,000 children
Aged Care	88 places per 1000 people 70+.
Ambulance Services	1 ambulance station per 105,000 people
Fire Services	1 fire station for every 60,000 people
Police	1 police station for every 108,000 people

4.1 Education

Primary Schools

The benchmark for primary schools is to provide one school per 500 students. Making the assumption that every child in the Green Square and City South Village will attend a public primary school within the village boundary, it is possible to suggest that the Village will require at least one new school by 2016 and up to four new schools by 2031.

However in reality there will be some children that attend other public and indeed private schools. Children from other villages may also attend public schools in this village.

Further analysis is therefore required to understand the need for future schools in this village.

TABLE 16. DEMAND PROJECTIONS PRIMARY SCHOOLS 2011- 2031

Year	2011	2016	2021	2031
Population Ages 5-11	775	1186	1187	2680
Infrastructure benchmark	1: 500	1: 500	1: 500	1: 500
Primary Schools required	1.55	2.37	2.37	5.36
Adjusted based on current provision*	1.05	1.87	1.87	4.86

Source: SGS Economics and Planning

The current enrolments (264) of Gardeners Road primary school is smaller than the benchmark capacity of 500 students, resulting in a lower starting capacity than one full school. Gardeners Road primary school is therefore represented as 0.5 schools.

Analysis undertaken by the Department of Education and Communities indicates there is a current utilisation rate of 68 per cent within the three primary schools in the Green Square catchment area: Alexandria Park Community School (primary school campus), Bourke Street Public School and Gardeners Road Public School.

It has advised the City that it has the capacity within existing school sites to accommodate projected increases in student enrolments for at least the next 10 to 12 years, including through expansion of those premises. The Department's enrolment projections for primary and secondary schools in the catchment are based on a number of data sources, including data provided by the City of Sydney.⁴

Secondary Schools

There is one secondary school in this area – the Alexandria Park Community School. This is a dual campus, partially selective, co-educational Kindergarten to Year 12 School. The total capacity of the secondary component of Alexandria Park Community School is between 320 and 370 students, according to the Department of Education and Communities. This capacity is not fully taken-up through present enrolments.

Using the benchmark of one government secondary school catering for up to 1200 students, it is possible to suggest that the Green Square City South Village Group may require one secondary school by 2031. However an expansion of Alexandria Park Community School, which is within the catchment area, may enable this school to continue to service demand into the future. A regional assessment is required to fully understand the need of school provision in the future for this area.

⁴ Advice provided in an email from Allison Heller, COS, 9 September 2014.

TABLE 17. DEMAND PROJECTIONS SECONDARY SCHOOLS 2011- 2031

Year	2011	2016	2021	2031
Population Ages 12-17	536	803	1109	1748
Infrastructure benchmark	1: 1200	1: 1200	1: 1200	1: 1200
Secondary Schools required *	0.44	0.67	0.92	1.45

Source: SGS Economics and Planning

It is noted that this has not been adjusted to account for the current secondary school capacity of Alexandria Park Community School. Further clarification is being sought from the Department of Education and Communities as to the precise capacity of this school and current enrolment demand.

Before and After School Care

Currently, there is one before and after school care facility in Green Square and City South Village with provision for 45 children (in the morning). The benchmark for before and after care is 1 place for every 25 child aged 5-12 years. Using a capacity number of 45 children for each before and after school care, by 2031 there may be a need to accommodate 1-2 more before and after school care facilities. Note that the below population figures are for school aged people which include children aged 5-11. Provision of before and after school care places will also need to be linked to the provision of additional primary schools.

TABLE 18. DEMAND PROJECTIONS BEFORE AND AFTER CARE 2011- 2031

Year	2011	2016	2021	2031
Population Ages 5-11	775	1186	1187	2680
Infrastructure benchmark	1:25	1:25	1:25	1:25
Places required	31	47.44	47.48	107.2
Adjusted places required based on current provision	-14	2.44	2.48	62.2

Source: SGS Economics and Planning

Day Care

There are nine day care centres located in Green Square City South Village with a total capacity of 396. The average capacity of day care centres is 44.

In 2013 the COS funded the preparation of a comprehensive analysis of current and future child care and early education need for children aged 0 to 5 years in the COS. This study identified a current and projected gap between child care supply and demand in the Green Square & City South area as follows:

- 353 places in 2013
- 617 places in 2016
- 1079 places in 2021; and
- 1440 places in 2031⁵.

These figures take into account the demand for child care resulting from workers in the City of Sydney area, as well as residents. The City of Sydney Child Care Needs Analysis 2013 used as a benchmark one child care place for every two resident children aged 0-5 years, based on a set of assumptions, including utilisation rates. The Needs Analysis also applied a workforce benchmark of one place per 195 workers in the CBD, and one place per 75 workers in other Village Groups.

⁵ City of Sydney Child Care Needs Analysis, 2013

TAFEs

The benchmark for TAFEs is to provide one TAFE per 300,000 to 500,000 people. Even using the higher provision rate of one TAFE per 300,000 people, it is possible to conclude that there is no projected demand for a TAFE campus within Green Square and City Switch Village. There are three TAFEs within a five kilometre radius of the Village, being:

- TAFE NSW in Redfern
- TAFE NSW – The Design Centre in Enmore
- Randwick TAFE.

TAFEs are planned on a regional level, making it important to consult with state and regional authorities when considering the need for additional campuses on a regional scale.

TABLE 19. DEMAND PROJECTIONS TAFES 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	1:300,000	1:300,000	1:300,000	1:300,000
New TAFEs required	0.06	0.10	0.13	0.18

Source: SGS Economics and Planning

Universities

There are no university campuses within Green Square and City South Village, however there are three situated quite close (within a 2km radius) of the village boundary, being:

- The University of Sydney in Camperdown
- University of Technology in Ultimo
- The University of New South Wales.

Using the benchmark of providing one university for every 150,000 people, there is a no demand on a local level for an added campus. Like TAFEs, Universities are planned on a regional level and even state level. It is important to consult with key state and regional bodies on the provision of new campuses on a regional scale.

TABLE 20. DEMAND PROJECTIONS UNIVERSITIES 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	150,000	150,000	150,000	150,000
New university campus required	0.13	0.20	0.27	0.36

Source: SGS Economics and Planning

4.2 Health, Aged Care and Disability Services

Hospitals

Although hospitals are regional and state-wide infrastructure, it is important to understand the impact that large increases in population will have on the availability of beds to residents on a smaller scale. Using the benchmark of 2.3 beds per 1000 people, it is likely that by 2031 an additional 124 beds will be required by the Green Square and City South Village population. It is important to note that the Green Square and City South village has been projected to experience a large increase in the elderly population. This may increase the number of beds that is required by this area.

TABLE 21. DEMAND PROJECTIONS HOSPITAL BEDS 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	2.3:1000	2.3:1000	2.3:1000	2.3:1000
Beds required	46.23	70.14	94.55	124.59

Source: SGS Economics and Planning

Primary Health Care Centres

There are five primary health care centres already located within Green Square and City South Village. Using the benchmark of 1 new centre per 50,000 of the population, the Village will not require any additional centres through to 2031. It is important to note that due to the inner city location of Green Square, primary health care centres may be utilised by people who work nearby. This may increase demand significantly and would explain the high number of health care centres already present in the village.

TABLE 22. DEMAND PROJECTIONS PRIMARY HEALTH CARE CENTRES 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	1: 50,000	1: 50,000	1: 50,000	1: 50,000
Centres required	0.40	0.60	0.82	1.08
Adjusted centres required based on current provision	-4.6	-4.4	-4.18	-3.92

Source: SGS Economics and Planning

The other benchmark available to measure the demand for health care is the ratio of general practitioners per person, which is one GP per 4000 people. There are at least 11 GPs located within the Green Square and City South Village. Using the above benchmark, there may be demand for an additional two GPs by 2031. These GPs can likely be accommodated in existing facilities.

TABLE 23. DEMAND PROJECTIONS PRIMARY HEALTH CARE CENTRE 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	1: 4000	1: 4000	1: 4000	1: 4000
GPs required	5.02	7.62	10.27	13.54
Adjusted GPs required based on current provision	-5.98	-3.38	-0.73	2.5

Source: SGS Economics and Planning

Children's Health Centre

There are no child health care centres located in Green Square City South Village. Using the benchmark of providing one early childhood nurse per 2,000 children, there is already demand in 2011 for one child health nurse. This increases to three by 2031. It is important to note that two health care centres within Green Square City South Village list paediatric care in their service offer. This may be satisfying demand at present. However, given the levels of population growth expected for children, further research is required to understand the level of demand for a standalone service.

TABLE 24. DEMAND PROJECTIONS CHILD HEALTH CARE CENTRE 2011- 2031

Year	2011	2016	2021	2031
Population Ages 0-17	2261	3643	5391	7349
Infrastructure benchmark	1: 2000	1: 2000	1: 2000	1: 2000
Child health nurses required	1.13	1.82	2.69	3.67

Source: SGS Economics and Planning

Aged Care Facilities

There are no aged care facilities within Green Square and City Switch Village however there are four within a five kilometre radius; being:

- Annie Green Court in Redfern
- Frederic House in Waterloo
- Castellorizian Nursing Home in Kensington
- St Josephs Aged Care Facility for Religious, in Kensington

Using the benchmark of 88 aged care places per 1000 people over 70+, there will be a need for 257 extra beds for City Switch and Green Square residents by 2031. It is possible that the existing facilities could accommodate some of this. However with the large projected growth of people over 70 in Green Square and City South, there may be demand for another facility located within the village.

TABLE 25. DEMAND PROJECTIONS AGED CARE FACILITIES 2011- 2031

Year	2011	2016	2021	2031
Population Ages 70+	702	1115	1753	2926
Infrastructure benchmark	88: 1000	88: 1000	88: 1000	88: 1000
Places in Aged Care required	61.77	98.12	154.26	257.48

Source: SGS Economics and Planning

4.3 Emergency, Fire and Police Services

Ambulance Station

There are no ambulance stations located within Green Square and City South Village. However there are three within a five kilometre radius, being:

- Paddington Ambulance Station
- Mascot Ambulance Station
- St John Ambulance Glebe Division.

Using the benchmark of delivering one ambulance station per 105,000 people, it is possible to suggest that by 2031, one new ambulance station may be required in Green Square and City South. Planning for ambulance services needs to take into account the needs of visitors and workers as well as residents.

TABLE 26. DEMAND PROJECTIONS AMBULANCE STATIONS 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	1:105,000	1:105,000	1:105,000	1:105,000
New Ambulance Stations required	0.2	0.3	0.4	0.5

Source: SGS Economics and Planning

Fire Services

One fire station is located within Green Square and City South Village in the suburb of Alexandria. The current benchmark for fire stations is one facility per for every 60,000 people. Using this benchmark, by 2031, there will still be adequate provision of fire services for Green Square and City South Village. Planning for fire services needs to take into account the needs of visitors and workers as well as residents.

TABLE 27. DEMAND PROJECTIONS FIRE STATIONS 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	1:60,000	1:60,000	1:60,000	1:60,000
New fire stations required	0.33	0.50	0.68	0.90
Adjusted due to current provisions	-0.67	-0.5	-0.32	-0.1

Source: SGS Economics and Planning

Police Services

There is no police station within the Green Square and City South Village, however there are eight within a five kilometre radius of the area; being:

- Marrickville Police Station
- Newtown Police Station
- Leichhardt Police Station
- Surry Hills Police Station
- Paddington Police Station
- Waverley Police Station
- Randwick Police Station
- Mascot Police Station.

Using the current benchmark of one police station for every 108,000 people, no new police stations will be required even at 2031. Planning for police services needs to take into account the needs of visitors and workers as well as residents.

TABLE 28. DEMAND PROJECTIONS POLICE STATIONS 2011- 2031

Year	2011	2016	2021	2031
Total Population	20,103	30,499	41,113	54,172
Infrastructure benchmark	1:108,000	1:108,000	1:108,000	1:108,000
New police stations required	0.2	0.3	0.4	0.5

Source: SGS Economics and Planning

5 CONCLUSION

This report has recommended future requirements for facilities based on both the population projections and current social infrastructure present in Green Square City South Village. It is important to note that these suggestions are based on the population projections likely for Green Square. They therefore do not incorporate future population growth outside the Village which may put added pressure on social infrastructure if not catered for elsewhere. For regionally significant facilities, further analysis is required to understand the demand across wider geographical locations to ensure new social infrastructure is placed in the best location.

The table below summarises the suggestions for each social infrastructure type.

TABLE 29. RECOMMENDATIONS FOR FUTURE PROVISION OF SOCIAL INFRASTRUCTURE

Service or Facility	Benchmark	Future Provision Requirements
Primary Schools	1 primary school cater for around 500 students.	The benchmark for primary schools is to provide one school per 500 students. Making the assumption that every child in the Green Square and City South Village will attend a public primary school within the village boundary, it is suggested that the Village will require at least one new school by 2016 and four new schools by 2031. The Department of Education and Communities has, however, advised the City that it has the capacity within existing buildings to accommodate projected increases in primary school student enrolments for at least the next 10 to 12 years.
Secondary Schools	1 government high schools catering for up to 1200 students	There is currently one secondary school in this area, with capacity of between 320 and 370 students– Alexandria Park Community School. Using the benchmark of one government high school catering for up to 1200 students, it is suggested that the Green Square City South Village may require one additional secondary school by 2031, or expanded capacity within the existing secondary school within the catchment.
Before and After School care	1 place for every 25 children aged 5-12 years.	Using a capacity number of 45 children for each before and after school care, by 2031 there may be a need to accommodate 1-2 more before and after school care facilities. The provision of new before and after school care facilities should be linked to provision of new primary schools.
Childcare	As in separate Child Care Needs Analysis Report 2013	There are nine day care centres located in Green Square City South Village with a total capacity of 396. The average capacity of these day care centres is 44. A separate study has identified the current and projected gap between child care supply and demand in the Green Square & City South area as follows: <ul style="list-style-type: none"> - 353 places in 2013 - 617 places in 2016 - 1079 places in 2021; and - 1440 places in 2031⁶.

⁶ City of Sydney Child Care Needs Analysis, 2013

Service or Facility	Benchmark	Future Provision Requirements
TAFE	1 TAFE to cater for a population of 300,000 – 500,000	Even using the low provision rate of one TAFE per 300,000 people, it is possible to conclude that there is no projected demand for a TAFE campus within Green Square and City Switch Village. It is important to consult with key state and regional bodies on the provision of new campuses on a regional scale.
University	1 university for every 150,000 people	Using the benchmark of providing one university for every 150,000 people, there is a no demand on a local level for an added campus. It is important to consult with key Commonwealth, State and regional bodies on the provision of new campuses on a regional scale.
Hospitals	2.3 beds per 1,000 people.	Using the benchmark of 2.3 beds per 1000 people, it is likely that by 2031 an additional 124 beds will be required by the Green Square and City South Village population. The high number of elderly people projected may increase this demand. These additional beds could be provided in an existing hospital or in a new facility.
Primary Health Care Centre (including mental health)	1 new primary care centre per 50,000 people.	Using the benchmark of 1 new centre per 50,000 of the population, the Village will not require any additional centres through to 2031. However it is important to note that due to the inner city location of Green Square, primary health care centres may be utilised by people who work nearby.
GP Medical Centres	1 GP per 4,000 people	Using the benchmark of 1 in 4000 people there may be demand for an additional two GPs by 2031, accommodated in existing Centres.
Children's Health Services	1 early childhood nurse per 2,000 children	Using the benchmark of providing one early childhood nurse per 2,000 children, there is already demand in 2011 for one child health nurse. This increases to three by 2031.
Aged Care	88 places per 1000 people 70+.	Using the benchmark of 88 aged care places per 1000 people over 70+, there will be a need for 257 extra beds for City Switch and Green Square residents by 2031. It is possible that the existing facilities could accommodate some of this. However with the large projected growth of people over 70 in Green Square and City South, there may be demand for another facility located within the village.
Ambulance Services	1 ambulance station per 105,000	Using the benchmark of delivering one ambulance station per 105,000 people, it is possible to suggest that by 2031, one new ambulance station may be required in Green Square and City South.
Fire Services	1 fire station for every 60,000 people	Using the benchmark of one facility per for every 60,000 people, by 2031 there will still be adequate provision of fire services for Green Square and City South Village.
Police	1 police station for every 108,000 people	Using the current benchmark of one police station for every 108,000 people, no new police stations will be required even at 2031.

Contact us

CANBERRA

Level 1, 55 Woolley Street
Dickson ACT 2602

+61 2 6262 7603
sgsact@sgsep.com.au

HOBART

Unit 2, 5 King Street
Bellerive TAS 7018

+61 (0)439 941 934
sgstas@sgsep.com.au

MELBOURNE

Level 5, 171 La Trobe Street
Melbourne VIC 3000

+61 3 8616 0331
sgsvic@sgsep.com.au

SYDNEY

209/50 Holt Street
Surry Hills NSW 2010

+61 2 8307 0121
sgsnsw@sgsep.com.au

