

LANDSCAPE CHARACTER

THE HISTORY OF DEVELOPMENT AND THE CHARACTER OF SYDNEY HAS BEEN INFLUENCED BY TOPOGRAPHY AND THE UNDERLYING NATURAL FEATURES. THE SYDNEY GREEN GRID BUILDS UPON THE GEOMORPHOLOGY OF PLACE TO CREATE LOCALLY RESPONSIVE OPEN SPACE STRATEGIES. THESE LANDSCAPE FEATURES HAVE BEEN USED TO ESTABLISH A FRAMEWORK FOR FUTURE PROJECT AND DEVELOPMENT OPPORTUNITIES.







Cronulla Beach

Royal National Park

Cooks River

setting of Royal National Park, Heathcote National Park, Holsworthy Military Reserve and Georges River National Park. The magnificent waterways of the Georges River and Port Hacking define the suburbs of Hurstville, Miranda and Sutherland Shire. The Cooks River and its natural tributary Wolli Creek shape the more urbanised areas of Canterbury-Bankstown.

The vision for the South District to be liveable and connected relates to the interface between these unique natural environments and urban form.

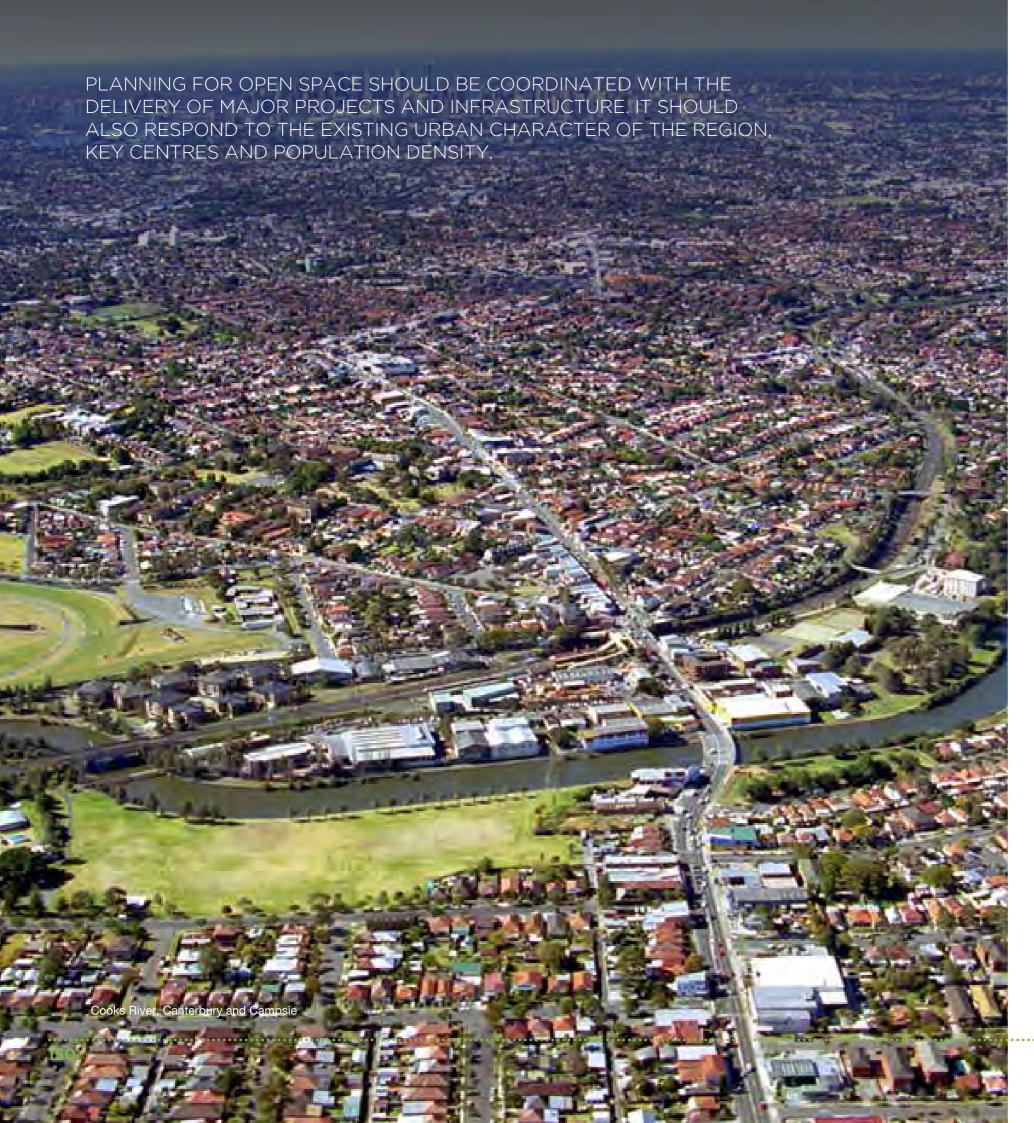
North of the Georges River the urban landscape predominates. Here, there is an opportunity to build on the existing initiatives of the Cooks River and create a dynamic recreational corridor which responds to the changing needs of a growing population.

This South District is defined by the bushland
The district is bound by the coastline and the administrative boundaries of the three Local Government Areas of Canterbury-Bankstown, Georges River and Sutherland Shire.

> The district sits within three water catchments: the Cooks River, Georges River and Port Hacking and their associated estuarine areas. There are large stretches of foreshore along Botany Bay, Port Hacking and the Pacific Ocean.

Regional open space within the district includes parks along the Kurnell Peninsula. Royal National Park, Heathcote National Park and areas following creek lines connecting to the Georges River and bayside parks at Cronulla Beach.

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1.2 STRATEGIC CONTEXT

The South District is located to the South of the CBD and Airport and contains densely settled suburbs consolidated in the central and northern areas (Sutherland, Georges River and Canterbury-Bankstown) interspersed with significant industrial zones. A large expanse of defence land and National Parks makes up the southern and western portion (Holsworthy Military Reserve, Royal National and Heathcote National Parks). Key transport and freight links connect Metropolitan Sydney and the Illawarra with Sydney Airport and across the district to Bankstown and Parramatta.

Open space within the district has a regional focus and provides open space opportunities for a population beyond its council boundaries. Cronulla Beach, internationally significant Towra Point Nature Reserve and Wetlands, Royal, Heathcote and Botany Bay National Parks attract large tourist populations that support the economy and recreation needs of greater Sydney.

The district also holds significant energy and water facilities at Kurnell Peninsula and Woronora Dam, commercial fishery operations on the Georges River, a key employment area at Taren Point, technology and research area at Lucas Heights and the Sutherland, Kirrawee and Loftus education area.

Strategic Centres

Commercial, retail, employment, mixed use and higher density housing will be focused at the two Strategic Centres of Hurstville and Kogarah. Improved connections from these Strategic Centres to key regional open spaces, the Georges River and Botany Bay and surrounding suburbs will ensure regional assets can be enjoyed by all.

Infrastructure

Significant strategic projects that will transform the district will be the WestConnex and improvements to the Illawarra Line that will reduce the impacts of freight traffic in the district.

Urban Renewal

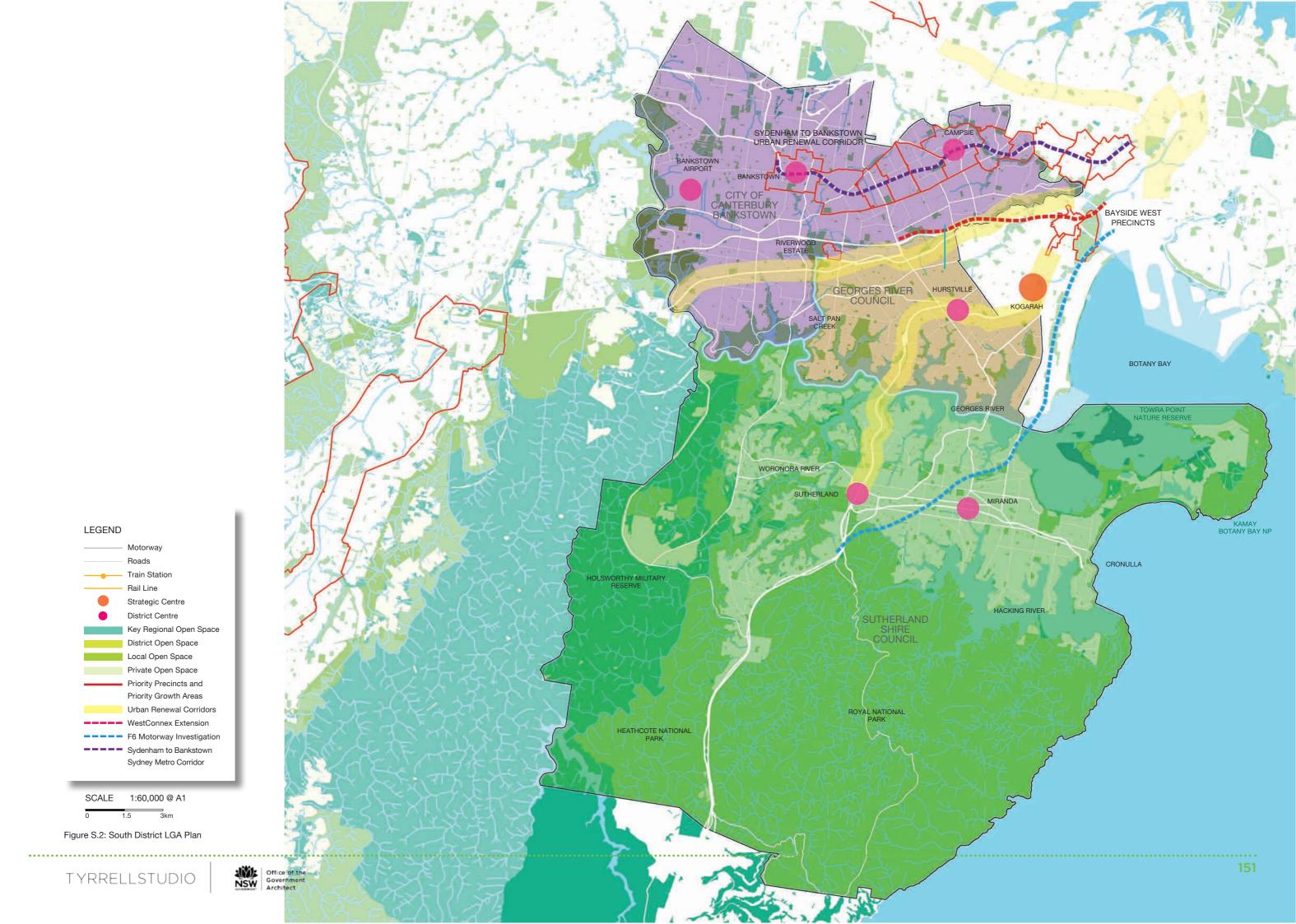
Housing intensification and urban renewal will be focused along key public transport corridors, the Illawarra Line, South Line and Bankstown Line. The delivery of these urban renewal projects provide opportunities to increase connections to existing open space or provide additional open space.

Open Space Initiatives

The rehabilitation of the Cooks River in tandem with Wolli Creek Regional Park and improved linkages to the foreshore provide a significant opportunity for equity of access to open space. These initiatives will serve to improve the quality of life for communities in this district.

At a more local level, improving the quality and provision of existing open space is critical to livability. Well planned tree planting programs for streets and parks across the whole district will contribute to the provision of interconnected networks of open space and green links where people, birds and animals can travel safely.

These strategic open space initiatives along with infrastructure and development projects occurring within the district form an important starting point for the delivery of a Metropolitan Green Grid across Sydney.



1.3 PROJECT OPPORTUNITY CLUSTERS

THE STRATEGIC FRAMEWORK PROVIDES AN OVERVIEW OF REGIONAL OPEN SPACE OPPORTUNITIES AS A SERIES OF PROJECT OPPORTUNITY CLUSTERS. THESE CLUSTERS ARE FORMED AROUND THE DISTRICTS STRATEGIC CONTEXT AND KEY LANDSCAPE FEATURES. IT IS ENVISAGED THAT THESE CLUSTERS FORM A STARTING POINT FOR ENSURING THE MORE GENERALISED DISTRICT STRATEGIES AND ANY FUTURE PROJECT DELIVERY RESPONDS TO THE LOCAL STRATEGIC CONTEXT AND LANDSCAPE CONDITIONS.

SD.1.1 COOKS RIVER CORRIDOR

The projects within this group are located within the highly urbanised catchment of the Cooks River, a unique urban waterway in the district. Projects address connectivity, walking and cycling, recreation, intensity of use, biodiversity opportunities and continue to establish the Cooks River as a major recreational destination for residents in this area.

More specifically including:

- enhancing the Cooks River as a green corridor through additional planning and management and of natural habitats:
- Promote riverbank restoration and water treatment projects where possible; Build on the initiatives undertaken through the Cooks River Sustainability Initiative;
- Promote naturalisation of concrete lined channels where space allows;
- Create a series of destination parkland experiences along the length of the waterway;

SD.1.2 WOLLI CREEK CORRIDOR

Marked by the only bushland of substantial size left in inner south-west Sydney, the projects in this cluster maximise biodiversity and connectivity to integrate with new development in the surrounding suburb of Turella, providing increased access to nature and opportunities for bushland restoration, education, recreation and linkages via the M5 linear park to Salt Pan Creek at Riverwood.

Specifically this includes:

- Continue to establish Wolli Creek as a major regional open space destination;
- Ensure that remaining 25 hectares of 50 hectare open space at Wolli Creek are transferred to NPWS for the land identified as the Wolli Creek Regional Park:
- Protect open space under threat by proposed M5 East Expansion at Bexley North;
- Extend trail at either end: from Campsie via Cooks River Valley to Freshwater Park, Strathfield and beyond to the harbour foreshores; from Bexley North via the M5 Linear Park to Salt Pan Creek at Riverwood
- Create new bridge link across Wolli
 Creek and Bankstown Rail Corridor to improve access to two valley trail;
- Create Wolli Creek wetlands cycleway.

SD.1.3 BANKSTOWN RAIL LINE - SYDENHAM TO BANKSTOWN

This cluster of public realm improvements reflects the challenges of softening traffic dominated environments to enhance connectivity to the Cooks River and Wolli Creek linear parklands and creating pedestrian and cyclist environment, tree planting to improve air quality and mitigate the heat island effect. Investigate opportunities to colocate golf facilities and acquire additional open space for housing and community use. Tempe, Bardwell Park and Canterbury Gold Club occupy major landholdings and are all within close proximity of one another.

SD.1.4 ILLAWARRA LINE – ARNCLIFFE, BANKSIA, ROCKDALE

This group of projects proposes a series of public realm improvements and reinvigoration of existing parks ensuring that all new development projects provide a network of green cover, street trees and green roofs to mitigate storm water flooding and urban heat island effect. Investigate opportunities to colocate golf facilities and acquire additional open space for housing and community use. Tempe, Kogarah and Beverley Park Golf Club are all within close proximity.

SD.1.5 GEORGES RIVER BAY PARKS

This cluster of projects is located on the foreshore of the Georges River. Improved connectivity to the string of riverside parks situated in the bays of the river with enhancements to the parks and their wetland systems. Riverside parks include: Len Reynolds Reserve, Northcote Street Reserve, Sans Souci Park, Claydon Reserve, Carrs Bush Park Reserve, Shipwrights Bay Reserve, Bald Face Point Reserve, Poulton Park and Moores Reserve, Como Pleasure Grounds and Coronation Bay.

 Connect the three bridges crossing the Georges River and facilitate pedestrian and cycle access.

SD.1.6 CRONULLA BEACHES - TO KAMAY AND BONNA POINT RESERVE

Cronulla's beautiful stretch of coastline is a congregation point for thousands of visitors providing the starting point for a cluster of projects which facilitate connection to Kamay Botany Bay National Park, Bonna Point Reserve and Towra Point Nature Reserve including the Woolaware Bay Trail.

SD.1.7 CRONULLA RAIL LINE – SUTHERLAND TO CRONULLA

This project cluster is associated with the centres along the Illawarra line between Sutherland and Cronulla and includes public realm improvements where key centres are proposed at Sutherland/ Kirrawee and Miranda/Caringbah, reinvigoration of existing parks and ensuring that all new development projects provide a network of green cover, street trees and green roofs to mitigate storm water flooding and urban heat island effect. Connections from these key centres to surrounding National Parks, Kurnell Peninsula, coastline and river foreshores are facilitated.

SD.1.8 WORONORA RIVER

This cluster has a very high conservation value along the valley of the Woronora River between its mouth at the Georges River and Heathcote. There is an opportunity to enhance access to the river from Jannali, Loftus and Sutherland railway stations and the Royal National Park via a network of tributary trails. The River provides a wealth of recreational opportunities for the district such as canoeing/ kayaking, swimming, fishing, picnicking and bushwalking.

SD.1.9 M5 AND EAST HILLS RAIL LINE

This project cluster is located along the two infrastructure corridors of M5 Motorway and the East Hills Rail Line. A series of open spaces along both corridors are underutilised and can be connected into a continuous open space sequence that links clearly with the Wolli Creek National Park and Bardwell Valley Parks to the Cooks River.

SD.1.10 SALT PAN CREEK CORRIDOR

This project cluster has a high conservation value along the Salt Pan Creek and Georges River corridors. There are significant areas of mangroves along Salt Pan Creek and a series of boardwalks and paths. The proposed projects include improving links along the creek corridor and connecting them to nearby key centres including Bankstown, Riverwood, Padstow and Peakhurst. Extending the open space corridor along the Georges River from Chipping Norton and the Georges River National Park in the West Central and South West Districts along the adjacent open spaces and sports fields.



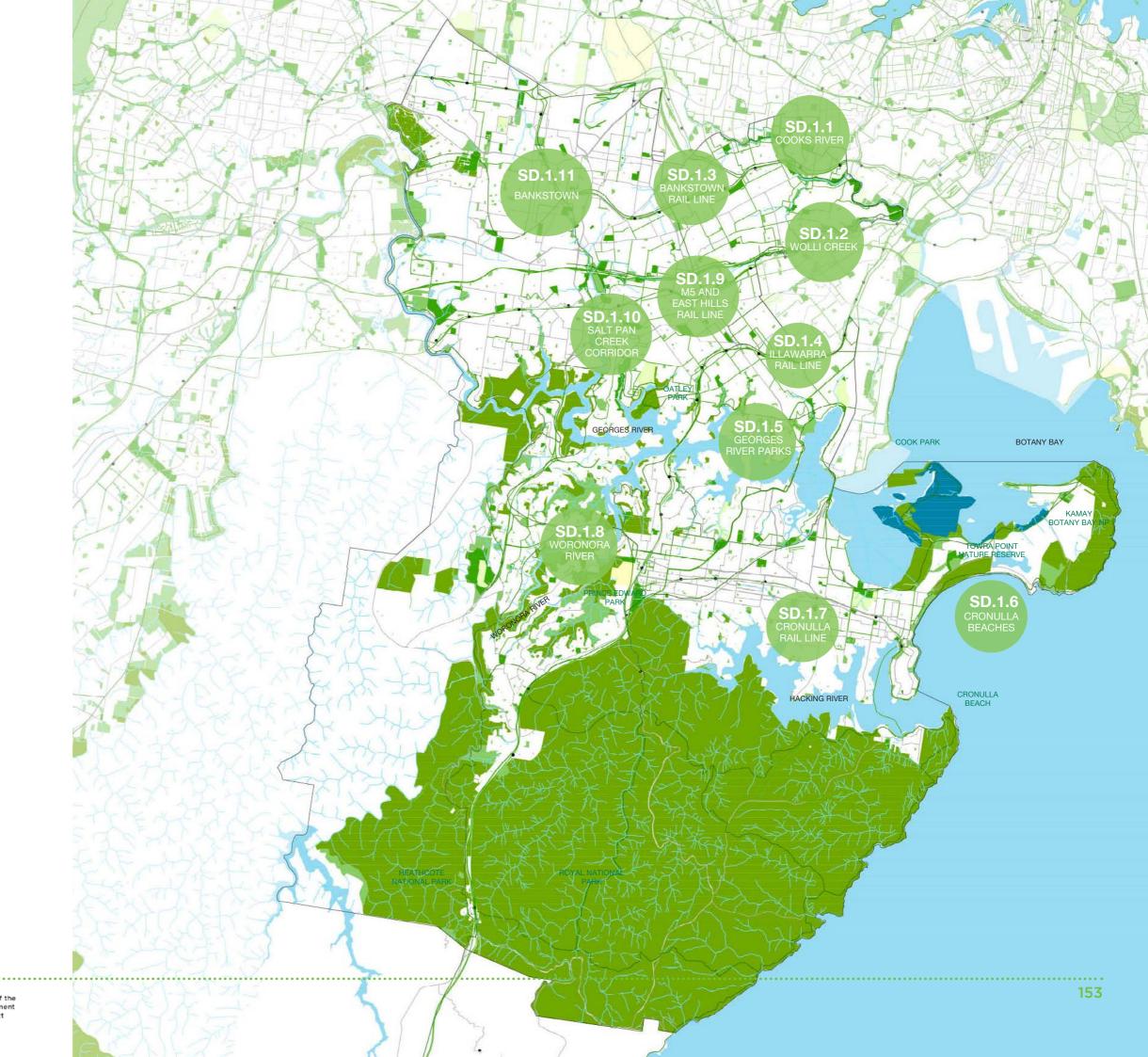
SD.1.11 BANKSTOWN

Bankstown LGA incorporates significant amounts of water frontage with large areas of regional open space around Salt Pan Creek and on to the Georges River. The key centre of the LGA at Bankstown faces challenges regarding access to open space particularly around large scale infrastructure such as railway stations and the M5 Motorway. Opportunities exist to increase the quality of the public domain and provide pedestrian and cycle links southwards from Bankstown to the numerous parks along the open space corridor of Salt Pan Creek. Sites such as the former Bankstown tip site may also provide additional recreation opportunities associated with any density increases. There is the opportunity to create a regional connection from Bankstown to Parramatta via the rail line and Duck River open space corridor.

The Bankstown Airport-Milperra specialised precinct will continue to function as a regional airport and industrial and employment lands. As potential future development of the area will accommodate a wider range of services there is opportunity to improve the environmental quality of the industrial areas with integrated water management and enhanced green cover of streets where possible.

SCALE 1:60,000 @ A1

Figure S.3: South District Project Clusters Plan





INCREASE ACCESS TO OPEN SPACE

CONNECT PEOPLE WITH KEY REGIONAL OPEN SPACE AND PROMOTE THE DISTRICTS OPEN SPACE ASSETS BY CREATING BETTER CONNECTIONS WITH MAJOR CENTRES, NEW TRANSPORT INFRASTRUCTURE AND AREAS OF URBAN RENEWAL.

There are significant health and wellbeing benefits associated with readily-accessible, high quality open space. Well-designed parks, plazas and streetscapes create highly liveable environments. With the growth in the South District estimated at 204,100 additional people in areas such as Campsie, Bankstown, Hurstville, Sutherland and Miranda, high quality open space and an interconnected network will provide the opportunity to promote greater liveability in areas undergoing significant land use change.

The South District has a wealth of key regional open spaces, creek corridors and natural resources within its catchments that will provide significant recreational opportunities for proposed key centres.

A series of key strategic opportunities

Maximise the value of the open space and connectivity between communities and the ability of this infrastructure to attract high quality development.

Undertake local open space studies to



increase access to open space at a local level and ensure equity of access across the district.

Enhance access to the Georges River for residents of the Georges River and Sutherland LGA's.





Picnic Point, Yeramba Lagoon

Waterworth Park, Wolli Creek

CHESTER HILL BASS HILL CHULLORA GREENACRE CAMPSIE CANTERBURY EARLWOOD LAKEMBA BANKSTOWN PUNCHBOW KOGARAH PEAKH HURSTVILLE SALT PAN CREEK **BOTANY BAY** ILLAWONG GEORGES RIVER SYLVANIA TOWRA POINT NATURE RESERV KAREELA WORONORA RIVER KAMAY BOTANY BAY NP CARINGBAH CRONULLA Motorway HOLSWORTHY MILITARY RESERVE Roads Train Station Rail Line HACKING RIVER Strategic Centre District Centre Local Centre Priority Precincts, Priority Growth Areas and Urban Renewal Corridors National Parks Regional Open Space ROYAL NATIONAL PARK District Open Space HEATHCOTE NATIONAL Local Open Space Private Open Space Proposed Regional Link 1:60,000 @ A1 Figure S.4: South District Access to Open Space Plan

A series of key project opportunities have been identified and include:

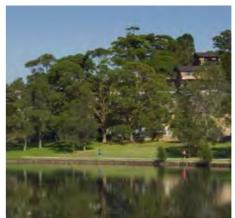
- 1. Link Bankstown to the Georges River and the Georges River NP via Salt Pan Creek and Riverwood. Improve access to Salt Pan Creek Corridor from Riverwood and Punchbowl.
- 2. Improve access to parklands on the headlands and bays of the Georges River. Improve pedestrian and cycle connections across the river.
- 3. Improve access from Menai, Bangorand Illawong to Stills Creek and the Woronora River.
- 4. Enhance access from Sutherland town centre to the Royal National Park and the Woronora River.
- 5. Enhance access to F6 open space corridor from Miranda to Woolooware Bay.
- 6. Reinforce the linear park along both sides of the Cooks River from Brighton-Le-Sands to Canterbury and Sydney Olympic Park and improve access across the river with new bridge crossings.
- 7. Connect railway stations at Turella, Wolli Creek and Arncliffe with the Cooks River, Bardwell Valley and Wolli Creek open space corridors.
- 8. Link Cronulla Beach with Kamay Botany Bay National Park.
- 9. Improve access from Sutherland to Cronulla via major centres and open spaces.

SCALE

LEGEND



1-5 PROMOTE HEALTHY AND ACTIVE LIVING







Wolli Creek Walking Track

Walking and cycling are becoming increasingly important recreation and transport choices. Increased opportunities for physical activity contribute significantly to greater health within the community, reducing health costs and increasing quality of life. Walking and cycling have some of the highest participation levels out of all recreation types. Opportunities for increasing Sydney's network of active transport links should provide links between the places people live and work and the places that people want to visit.

The South District has many visitor attractions, cultural facilities and places of interest associated with open space. Key areas of urban renewal will afford the opportunity to improve cycleway and footpath networks linking open spaces such as the Cooks River, Wolli Creek and the Georges River. With a number of links already in place, the district has some good recreation resources to build on. However, these links connecting regional open space are not evenly distrubuted across the district.

1.6 CREATE NEW HIGH QUALITY PUBLIC REALM

ESTABLISH A VIBRANT, PEDESTRIAN FRIENDLY PUBLIC REALM AT KEY CENTRES, TRANSPORT INTERCHANGES AND URBAN RENEWAL AREAS, WITH PLACES FOR GATHERING AND GOOD CONNECTIONS TO OPEN SPACE.



Beverly Hills High School



Moorebank High School

public realm at the centre. Squares, plazas and active streets offer important recreation and open space opportunities for social interaction. The public realm offer a starting point for the development of a well used and connected open space network. Key civic spaces or destinations should be integrated with public transport opportunities and existing development.

Sustainable regeneration or "density done well" has the public realm at the centre. Through the development process there will be significant opportunity to build an open space network that includes squares, plazas and active streets. The public realm offers the starting point for the development of a well used and connected open space network, including maximising the opportunity

Build an open space network with high quality public realm at the centre. Squares, plazas and active streets offer important recreation and open space opportunities for social to create new public realm as a long term environmental and community benefit of major infrastructure schemes such as the M5 widening, Westconnex and the F6.

A series of key project opportunities have been identified and include:

- Create connected, high quality public domain and civic space at key locations associated with areas of urban renewal areas such as Campsie, Bankstown, Hurstville and Miranda.
- 2. Upgrade and rejuvenate civic spaces in Hurstville, Sutherland and Cronulla creating high quality, vibrant and active public space.
- Create high quality public domain links connecting Canterbury and Campsie Train Stations with the Cooks River.

- Create high quality public domain link from Kogarah to Brighton-le-Sands, in the Central District.
- Improve pedestrian and cycle connections across the M4, Great Western Highway and The Northern Road to facilitate access to major regional parks and creek corridors.

A series of key strategic opportunities have been identified and include:

Continue laneway revitalisation within the strategic and district centres of Kogarah, Hurstville, Campsie and Bankstown.

Create new public space as a benefit of large scale infrastructure projects including M5 Motorway extension and the future potential F6 motorway.



Identify and minimise disturbance to riparian areas and protect and improve the natural character, ecological integrity, visual amenity and public access to foreshores and rivers (such as the Georges River, Woronora River and Bardwell Creek).

Examples of major watercourses in the district include the Georges River, Botany Bay, Hacking River, Woronora River, Cooks River and Salt Pan Creek Wolli Creek and the Cooks River border the district boundary with the Central District.

Sutherland, Heathcote and Cronulla, is a regional landmark that has engendered beautification works undertaken from the 1950s for the general visiting public. The picnic areas in particular have strong associations with past management

Protection of water quality of Botany Bay and other estuarine and riparian areas.

The South District includes the important wetland areas of Towra Point Nature Reserve. The reserve is listed as a Ramsar site and consists of 386.5 ha of wetlands. Sixty per cent of saltmarsh communities and 40% of mangrove communities in the Sydney region are found at Towra Point, in addition to a significant area of seagrass adjacent to the wetland (DECCW 2010).

The mangroves and seagrass of Towra Point provide protection and food for

juvenile fish species, and the release of crab larvae from saltmarsh areas during spring ebb tides provides a reliable source of food for a variety of fish species and a critical link in the estuary's food web.

Woronora Dam, which supplies
Sutherland, Heathcote and Cronulla, is a
regional landmark that has engendered
beautification works undertaken from
the 1950s for the general visiting public.
The picnic areas in particular have strong
associations with past management
practices of the Water Board. The
grounds of the dam are associated
with the local and regional community
of Sydney as a longstanding place of
passive recreation.

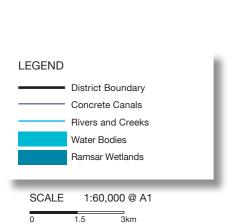


Figure S.5: South District Hydrological Grid Plan



SOUTH THE ECOLOGICAL GRID

The South District includes extensive areas of natural bushland and waterway systems. The district includes much of Royal, Heathcote, Georges River and Botany Bay National Parks and also includes Gandangara State Conservation Area and Towra Point Nature Reserve (mentioned above). A portion of the largely vegetated Holsworthy Military Reserve occurs within the South District.

A number of threatened ecological communities (TEC) occur within the district including Swamp Oak Floodplain Forest, Kurnell Dune Forest, Coastal Upland Swamp and The Shorebird Community occurring on the relict tidal delta sands at Taren Point, all of which occur both within and outside of the national parks/nature reserves. TEC Sydney Turpentine Ironbark Forest occurs almost exclusively outside of protected lands within the district.

Endangered populations of Acacia prominens, Allocasuarina diminuta subsp. mimica, Prostanthera saxicola, White-fronted Chat and a beetle (Menippus darcyi) occur within the South District.

Many areas of high biodiversity are protected in national parks and nature reserves, as well as on privately owned land managed for conservation purposes. The protection of biodiversity in the landscape provides a range of environmental, social and economic benefits. Detailed information on areas of high environmental is available from the Office of Environment and Heritage and councils. Where necessary, data and mapping of areas of high environmental value will be ground-truthed to improve accuracy.

The Office of Environment and Heritage has also developed a Biodiversity Investment Opportunities Map (BIO Map) for part of Greater Sydney. The BIO Map identifies priority areas for investment in bushland protection and restoration, comprising core areas of bushland and corridors, that are important at a state and regional level for biodiversity.

Connect biodiverse areas and apply planning and zoning provisions to protect corridors. Corridors aim to provide ecological connectivity, to facilitate the movement and dispersal of native flora and fauna across the landscape. Connecting biodiverse areas is particularly important in the face of climate change. Investigate opportunities to enhance native biodiversity in Green Grid corridors to help expand the urban forest to achieve canopy cover targets.

The use of Biodiversity Certification in strategic locations is supported as it identifies areas of high conservation value at a landscape scale and these areas can be avoided and protected while identifying areas suitable for development.

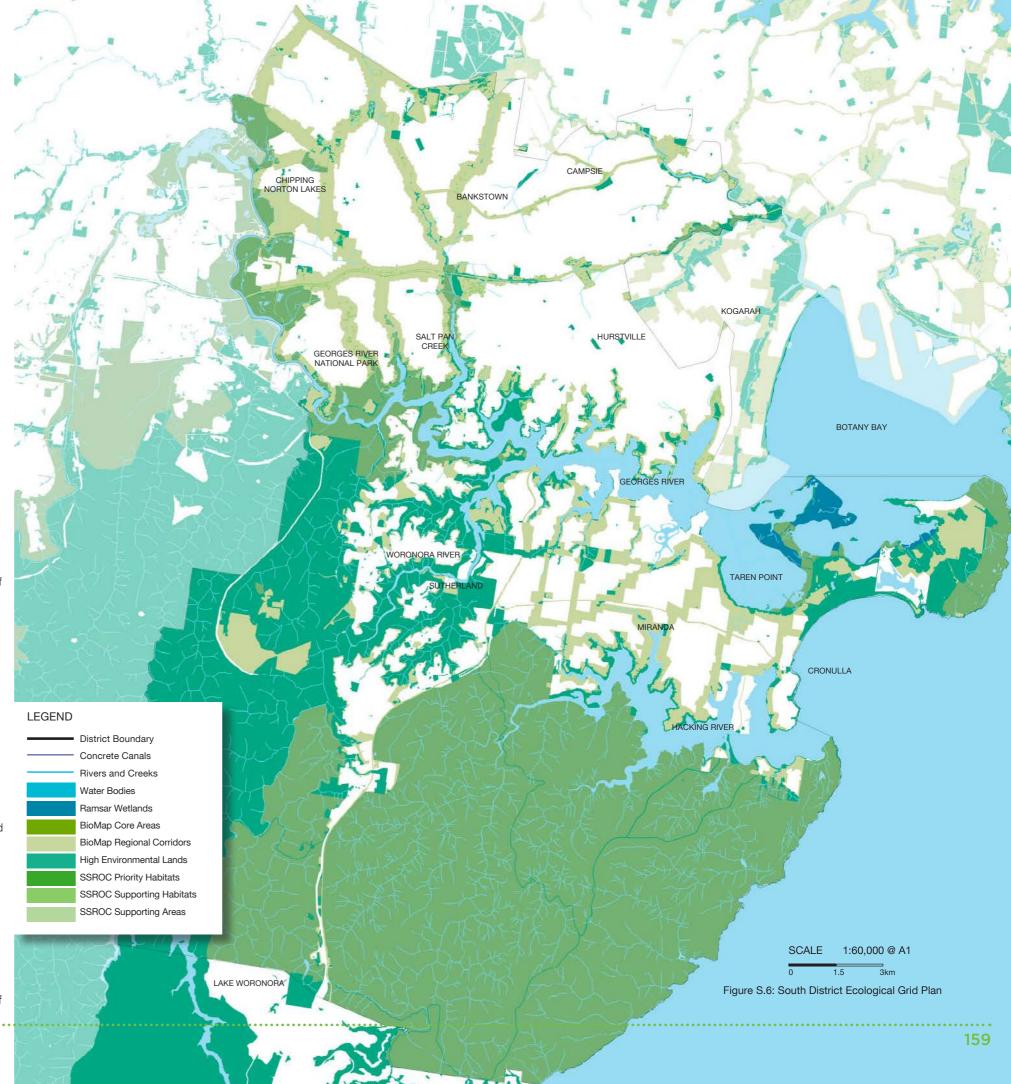
The use of BioBanking is supported as it provides in-perpetuity funding and security to protect and enhance the biodiversity values of the protected area.

Engage local communities about the biological assets of their 'local patch of bush' to encourage active involvement in the protection and enhancement of bushland and other biodiversity. This will require engagement of local communities about the multiple benefits of their local bush and riparian areas and waterways and action to improve the ecological literacy to deepen the community perception of green infrastructure.

Volunteer and community groups are an important sector in the rehabilitation of native vegetation in urban areas. In recognition of the effort and funding dedicated to these areas, a level of protection should be provided through the planning process by applying appropriate provisions and mechanisms.

In addition to being part of the Green Grid, vegetated riparian areas are good for water quality, providing habitat for a large diversity of flora and fauna, serve as migration routes and stopping points between habitats for a variety of wildlife, stabilise stream banks and reduce floodwater velocity.

NOTE: Ecological Grid values and text provided in consultation with the Office of Environment and Heritage [OEH].



SOUTH THE RECREATIONAL GRID

RECREATION

Key features and findings regarding recreational open space planning for both heritage means far more than looking passive and active sports are currently being analysed and will be described in collaboration with other consultancies.

HERITAGE

Towra Point Nature Reserve on Botany Bay is a declared Aboriginal Place in recognition of its natural and spiritual significance to Aboriginal people.

Kamay Botany Bay National Park contains Captain Cook's landing site (listed on the National Heritage List) and is rich in both Aboriginal and European history. It is a cornerstone for the country's colonial history.

The District Plan needs to recognise the cultural heritage significance of the expansive natural landscape and national parks and their associated built elements, such as historic bridges which provide the pedestrian and cycle links.

The protection of important heritage places and landscapes from the early planning stages is important as these places contribute to the district's identity and provide a sense of place, history and visual character. They also contribute to the economy through the attraction of visitors. Heritage is a non-renewable resource and the significance of heritage to the community should be appreciated, valued, protected and conserved for the benefit of current and future generations.

Aboriginal cultural heritage is legally protected in NSW. Protecting Aboriginal after sites in parks or artefacts in museums. Aboriginal people need to be consulted on the conservation of the natural environment and the development

Acknowledge heritage resources as a 'value addition' in urban development. This will include identifying significant heritage values and incorporating them into developments, including the adaptive reuse of heritage resources.

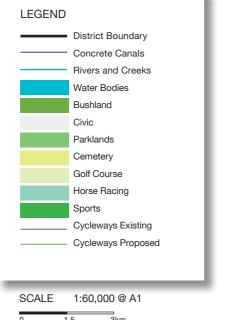
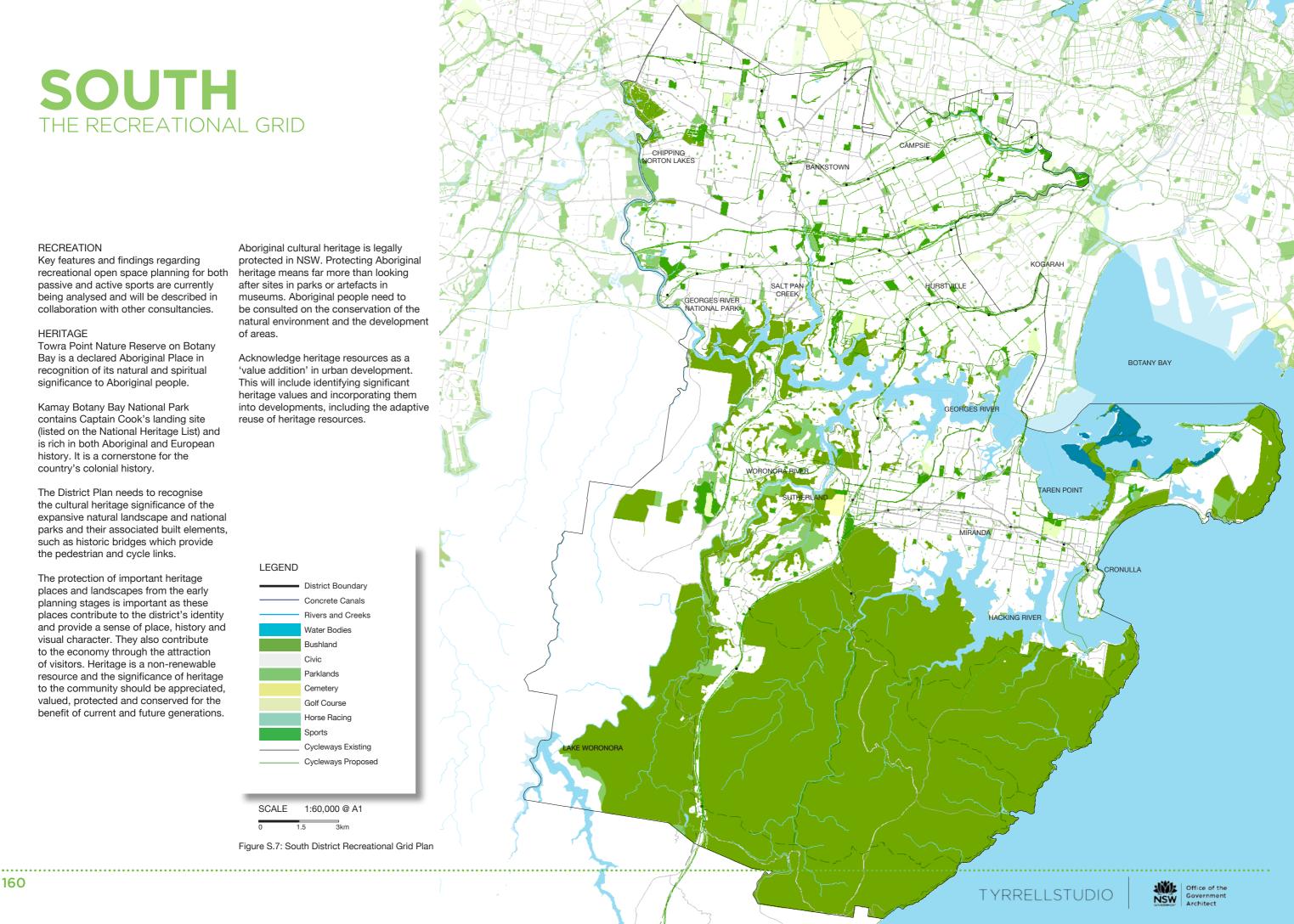


Figure S.7: South District Recreational Grid Plan



SOUTH
GREEN GRID EXISTING VALUES

The Existing Values plan represents a combination of the current values from the Hydrological, Ecological and Recreational Grids.

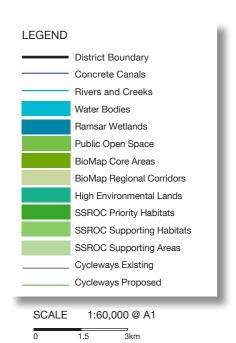
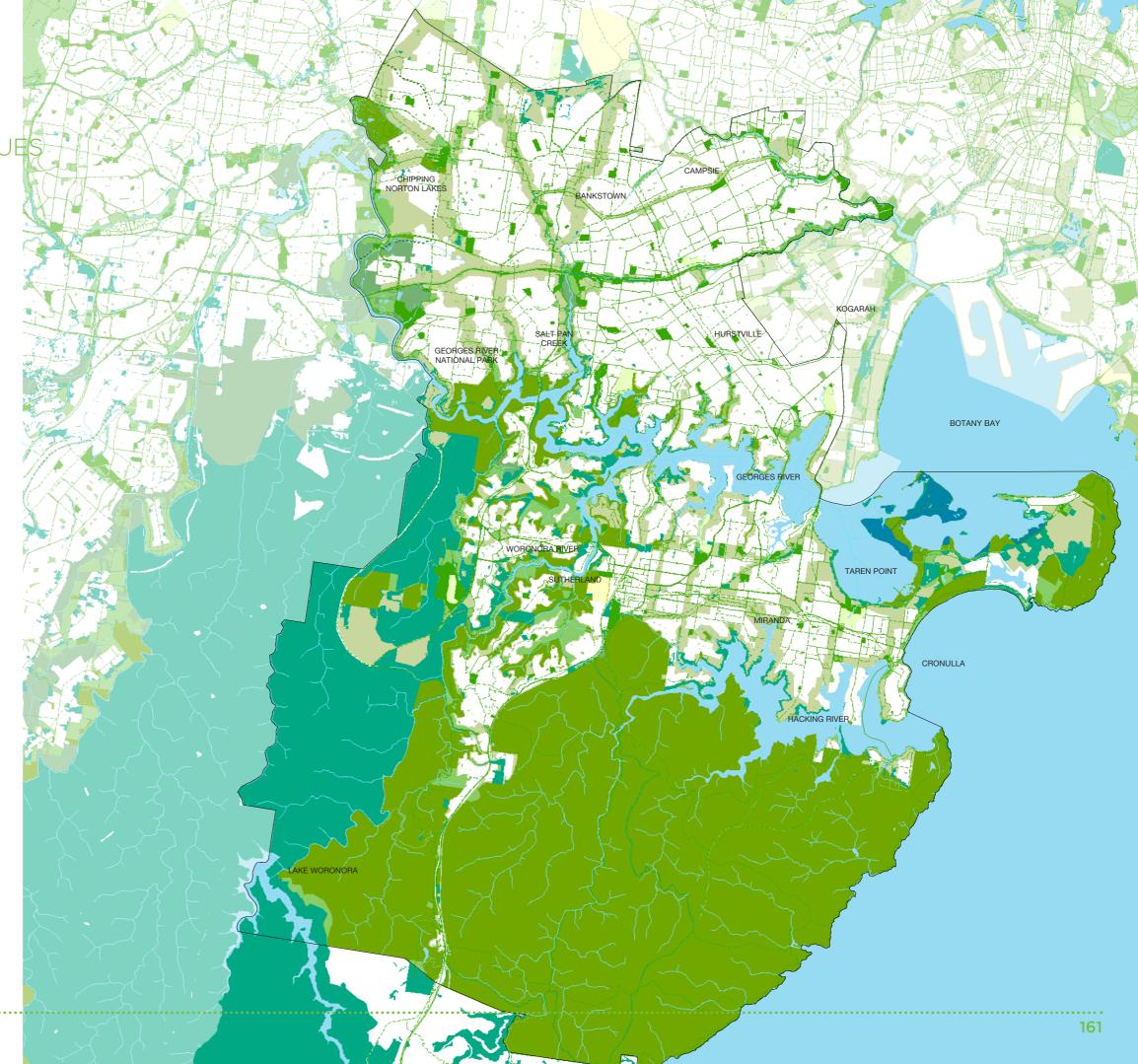


Figure S.8: South Green Grid Existing Values Plan



GREEN GRID PROJECT OPPORTUNITIES

The list of projects is a compilation of projects derived from the original Green Grid Reports together with the outcome from Greater Sydney Commission's District Plan Workshops and NSW Department of Planning and Environment Open Space Workshops.

This project list represents the projects identified by various interest groups and governments as potential priority projects. The projects are currently being assessed against the GIS data and work methodology as described previously.

The "Dominant Grid Layer" in the Project List refers to the infrastructure layer of the city that is most concerned with this project, and as a result may have funding allocated to it. This layer only represents the project as it currently exists and is not necessarily correlate to its future vision.

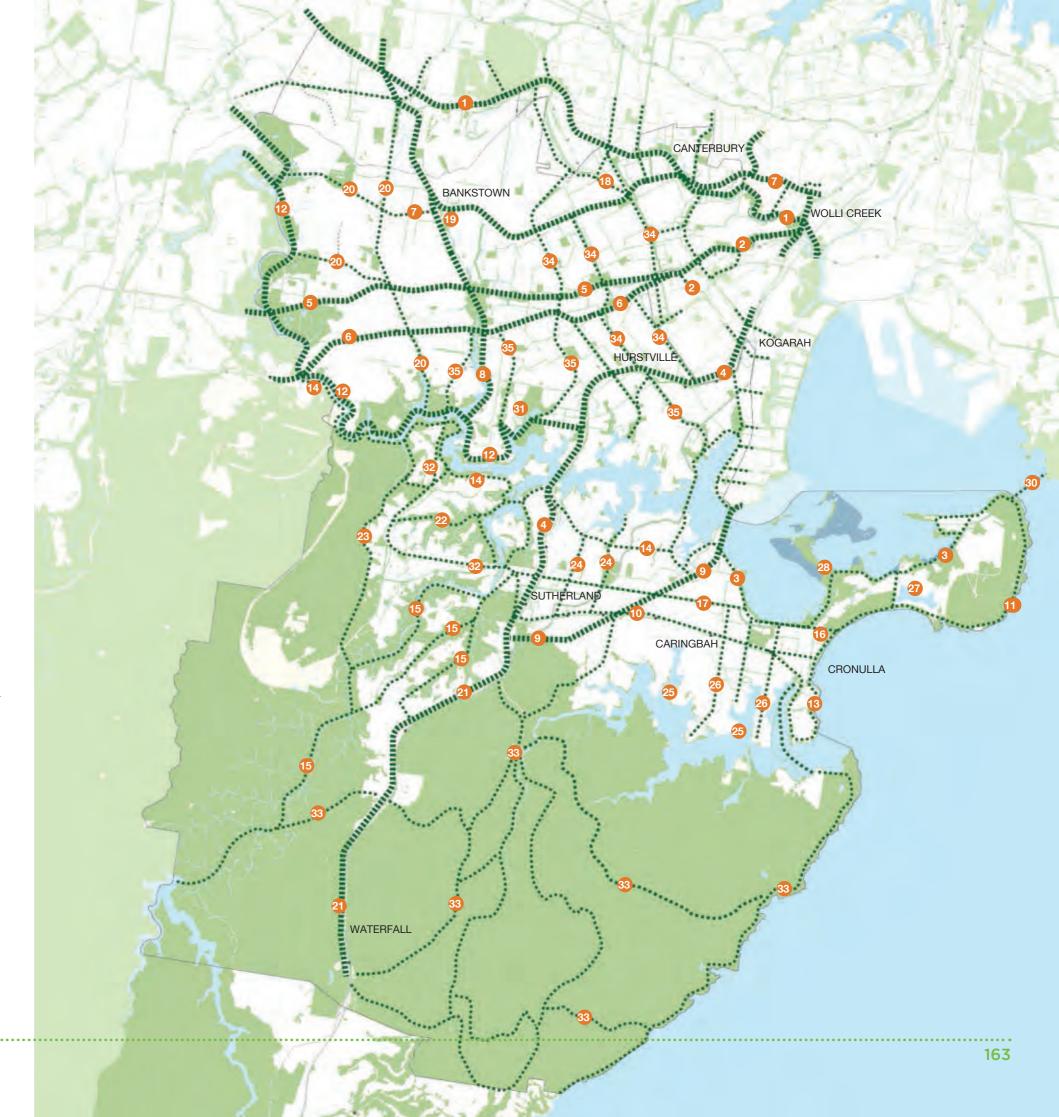


SOUTH DISTRICT:THE GREEN GRID PROJECT OPPORTUNITIES

PROJECT OPPORTUNITIES	DOMINANT GRID LAYER				
1. The Cooks River Open Space Corridor	HYDROLOGICAL				
2. Wolli Creek Regional Park and Bardwell Valley Parl	klands ECOLOGICAL				
3. The Coastal Walk: Botany Bay Foreshores	RECREATIONAL				
4. Illawarra Rail Line: Wolli Creek to Sutherland	TRANSPORT				
5. M5 Motorway Open Space Corridor	TRANSPORT				
6. East Hills Rail Line Open Space Corridor	TRANSPORT				
7. Bankstown to Sydenham Open Space Corridor	RECREATIONAL				
8. Salt Pan Creek Open Space Corridor	HYDROLOGICAL				
9. Sutherland to Botany Bay Open Space Corridor [Fe	6 Corridor] RECREATIONAL				
10. Sutherland to Cronulla Cycleway and Pedestrian	Link RECREATIONAL				
11. The Coastal Walk: Kurnell to the Royal National P	ark ECOLOGICAL				
12. Georges River Parklands incl. Chipping Norton La	ikes ECOLOGICAL				
13. Cronulla Beaches and Peninsula Walk	RECREATIONAL				
14. Kia'Mia Way River Foreshores Walk	HYDROLOGICAL				
15. Woronora Pipeline and Loftus Open Space Corrid	ors ECOLOGICAL				
16. Green Links to Cronulla Beaches	RECREATIONAL				
17. The Boulevarde Green Link	RECREATIONAL				
18. Freight Rail Line Chullora to Canterbury	TRANSPORT				
19. Bankstown CBD Green Links	RECREATIONAL				
20. Bankstown to George River Parklands Links	RECREATIONAL				
21. Sutherland to Waterfall Active Transport Corridor	RECREATIONAL				
22. Still Creek and Bushland Trails, Menai	ECOLOGICAL				
23. Mill Creek and Bushland Trails, Alfords Point	ECOLOGICAL				
24. Como, Kareela and Oyster Bay Gullys and Open S	•				
25. Yowie Bay, Buraneer Bay and Port Hacking Open					
26. Open Space Links from Port Hacking Bays to Urb	an Centres RECREATIONAL				
27. Boat Harbour, Greenhills and North Cronulla Bead					
28. Towra Point Nature Reserve and Woolooware Ba	y Foreshore ECOLOGICAL				
29. Oatley Memorial Park to Como Pleasure Grounds	RECREATIONAL				
30. Kurnell to La Perouse Ferry	RECREATIONAL				
31. Gannons Park, Lime Kiln Bay and Gungah Bay Op					
32. Padstow to Sutherland Cycle Link	RECREATIONAL				
33. Heathcote and Royal National Parks Trails	ECOLOGICAL				
34. Inter Rail Line Green Links	RECREATIONAL				
35. Georges River Green Links to Stations and Centre	es RECREATIONAL				

SCALE 1:60,000 @ A1 1.5

Figure S.9: South Green Grid Project Opportunities









PROJECT PRIORITISATION METHODOLOGY

The Green Grid projects have been analysed against ten priority criteria.

Each project is given a total score on the sum of the above values. Of the project that score 10 or higher (of a possible 12), Priority projects were selected based on relevance to future

- Existing ecological, hydrological and recreational value
- Regional potential to connect to other Green Grid projects
- Super District Scale potential to connect across Local Government Area and District Boundaries
- Projects proximity to development
- Projects with lands currently controlled by the Office of Strategic Lands (OSL)
- Projects identified by Local Council's as priorities during the Greater Sydney Commission's Technical Working Group process.
- Projects in regions with open space deficiency as identified in the Government Architect's Office Open Space Audit.
- Projects that overlap or provide important connections to NSW Department of Planning Priority Precincts.

Each project is given a total score based on the sum of the above values. Of selected based on relevance to future development requirements and other Greater Sydney Commission and NSW Planning priorities. For each district two or three projects are selected and are highlighted dark green in the project prioritisation matrix on the following page. High scoring projects that are not deemed as Priority Projects combined with projects that score 8 or higher are defined as other important projects and are highlighted light green in the project prioritisation matrix. From the "other important projects" list a shortlist were selected for inclusion into the District Plans based on their immediate relevance to other Greater Sydney Commission and NSW Planning priorities.



PRELIMINARY PROJECT PRIORITISATION MATRIX

PRIORITY PROJECT CRITERIA		POTENTIAL VALUES					OVERLAP & PROXIMITY VALUES					
	COUNT	ECOLOGICAL	HYDROLOGICAL	RECREATIONAL	CONNECTIVITY	SUPER DISTRICT	PROXIMITY TO	OSL LANDS	GSC TWG	OPEN SPACE	PRIORITY PRECINCT	
PROJECT NAME	VALUE	VALUE	VALUE	VALUE	VALUE	SCALE VALUE		OVERLAP	FOCUS	DEFICIENCY	OVERLAP	GREEN GRID PROJECT TYPE
[CATEGORY W	/EIGHTING]	[0-1]	[0-1]	[0-1]	[0-2]	[0-2]	[0-1]	[0-1]	[0-1]	[0-1]	[0-1]	
SOUTH DISTRICT PROJECT OPPORTUNITIES												
1. The Cooks River Open Space Corridor	11	1	1	1	2	2	1		1	1	1	Waterway Corridor
2. Wolli Creek Regional Park and Bardwell Valley Parklands	11	1	1	1	2	2	1		1	1	1	Ecological Lands
3. The Coastal Walk: Botany Bay Foreshores	10	1	1	1	2	2	1		1	1		Waterway Corridor
4. Illawarra Rail Line: Wolli Creek to Sutherland	10			1	2	2	1	1	1	1	1	Transport Corridors
5. M5 Motorway Open Space Corridor	8	1		1	2	2	1			1		Transport Corridors
6. East Hills Rail Line Open Space Corridor	7			1	2	2	1			1		Transport Corridors
7. Bankstown to Sydenham Open Space Corridor	<u>11</u>	1	1	1	2	2	1		1	1	1	Transport Corridors
8. Salt Pan Creek Open Space Corridor	11	1	1	1	2	2	1		1	1	1	Waterway Corridor
9. Sutherland to Botany Bay Open Space Corridor [F6 Corridor]	7	1		1	2	2	1					Transport Corridors
10. Sutherland to Cronulla Cycleway and Pedestrian Link	5			1	2		1		1			Transport Corridors
11. The Coastal Walk: Kurnell to the Royal National Park	9	1	1	1	2	2	1	1				Ecological Lands
12. Georges River Parklands and Chipping Norton Lakes	- 11	1	1	1	2	2	1	1	1	1		Waterway Corridor
13. Cronulla Beaches and Peninsula Walk	7	1	1	1	2		1		1			Waterway Corridor
14. Kia'Mia Way River Foreshores Walk	9	1	1	1	2	2	1		1			Waterway Corridor
15. Woronora Pipeline and Loftus Open Space Corridors	3	1	1	1								Utilities Easements
16. Green Links to Cronulla Beaches	5			1	2		1		1			Urban Centre Street Links
17. The Boulevarde Green Link	5			1	2		1			1		Transport Corridors
18. Freight Rail Line Chullora to Canterbury	6			1	2		1			1	1	Transport Corridors
19. Bankstown CBD Green Links	6			1	2		1			1	1	Urban Centre Street Links
20. Bankstown to George River Parklands Links	6			1	2		1			1	1	Urban Centre Street Links
21. Sutherland to Waterfall Active Transport Corridor	6			1	2	2			1			Transport Corridors
22. Still Creek and Bushland Trails, Menai	4	1	1	1	_	<u>-</u>	1					Waterway Corridor
23. Mill Creek and Bushland Trails, Alfords Point	4	1	1	1			1					Waterway Corridor
24. Como, Kareela and Oyster Bay Gullys and Open Space	7	1	1	1	2		1			1		Waterway Corridor
25. Yowie Bay, Ewey Bay and Buraneer Bay Open Spaces	6	1		1	2		1			1		Waterway Corridor
26. Open Space Links from Port Hacking Bays to Urban Centres	5			1	2		1			1		Urban Centre Street Links
27. Boat Harbour, Greenhills and North Cronulla Beaches	7	1	1	1	2			1	1			Waterway Corridor
28. Towra Point Nature Reserve and Woolooware Bay Foreshore	5	1	1	·	2			·	1			Waterway Corridor
29. Oatley Memorial Park to Como Pleasure Grounds	6	1		1	2		1			1		Mixed Open Space Corridor
30. Kurnell to La Perouse Ferry	4			1	2				1			Transport Corridors
31. Gannons Park, Lime Kiln Bay and Gungah Bay Open Spaces	5	1	1	1	_		1		·	1		Waterway Corridor
32. Padstow to Sutherland Cycle Link	4		·	1	2		1					Mixed Open Space Corridor
33. Heathcote and Royal National Parks Trails	3	1	1	1	_							Ecological Lands
34. Inter Rail Line Green Links	7			1	2		1		1	1	1	Urban Centre Street Links
35. Georges River Green Links to Stations and Centres	6			1	2		1		1	1	ı	Urban Centre Street Links

NOTE

- The Coastal Walk: Botany Bay Foreshores project follows the edges of Botany Bay from Kurnell and Towra Point Wetlands, through Taren Point to Brighton and Kyeemagh in the Bayside Council area. Please refer to the Central District for further information on the Coastal Walk: Botany Bay Foreshores Green Grid project.
- The Georges River Parklands and Chipping Norton Lakes project follows the foreshores of the Georges River between the South and South West Districts. Please refer to the South West District for further information on the Georges River Parklands and Chipping Norton Lakes Green Grid project.



PRIORITY PROJECTS FOR FURTHER SCOPING

A selection of important Green Grid project opportunities have been selected for further scoping. The selected projects represent a mix of Priority and other important Green Grid projects. The selected projects also represent a mix of project types including projects with hydrological, ecological, recreational, transport and utility infrastructure values. The projects selected for further scoping may not represent the highest priority projects but aim to further understand the potential issues around different project types.







1. THE COOKS RIVER

The Cooks River Foreshore is a connected sequence of open spaces from Wolli Creek to Strathfield and is an important project for both the South and Central Districts. There is opportunity to transform the corridor into a regionally significant parkland corridor, improve water quality, and provide high quality open space along the highly urbanised catchment. Improving connectivity to nearby centres including Strathfield, Sydney Olympic Park, Campsie, Canterbury, Dulwich Hill, Marrickville and Wolli Creek. This project will also connect to other Green Grid projects including; the Bankstown to Sydenham Open Space Corridor project, The Great Coastal Walk: Botany Bay Foreshores project, the Wolli Creek Regional Park and Bardwell Valley Parklands project and the Rockdale Wetlands Open Space Corridor [F6 Corridor] project.

2. WOLLI CREEK REGIONAL PARK

The Wolli Creek and Bardwell Valleys twin valley link are important bushland and open space corridors, connecting Kingsgrove, Bardwell Valley, Turrella, Earlwood and Wolli Creek. Wolli Creek is one of the few large areas of remnant bushland and threatened ecological communities remaining in the southwest of Sydney, with over 50ha of open space along the corridor. This project aims to protect and enhance the important hydrological and ecological areas as an important District asset. It will aim to connect ecological patches to improve resilience, improve water quality and stormwater treatment, provide recreational open space and walking and cycling trails along the corridor. This project links to other important Green Grid projects including: The Cooks River Open Space Corridor, the Bankstown to Sydenham Open Space Corridor, the M5 Corridor, the Illawarra and East Hills Rail Line Corridors.

3. SALT PAN CREEK

The Salt Pan Creek Open Space Corridor links Bankstown to the Georges River. It is an important open space corridor for the region, with important ecological communities, mangroves, wetlands, recreational facilities and walking and cycling trails on both sides of the creek. The project aims to strengthen the connection between Bankstown CBD and Salt Pan Creek, improve trails and recreational opportunities surrounding adjacent development uplift, improved bridge crossings and connections to urban centres including Bankstown, Punchbowl, Riverwood, Padstow, Peakhurst and Lugarno. This project along with the Duck River Green Grid Project creates the opportunity to provide an open space link from Georges River to the Parramatta River.



Figure S.10: South Preliminary Priority Projects Plan

THE COOKS RIVER

SOUTH: PRIORITY PROJECT



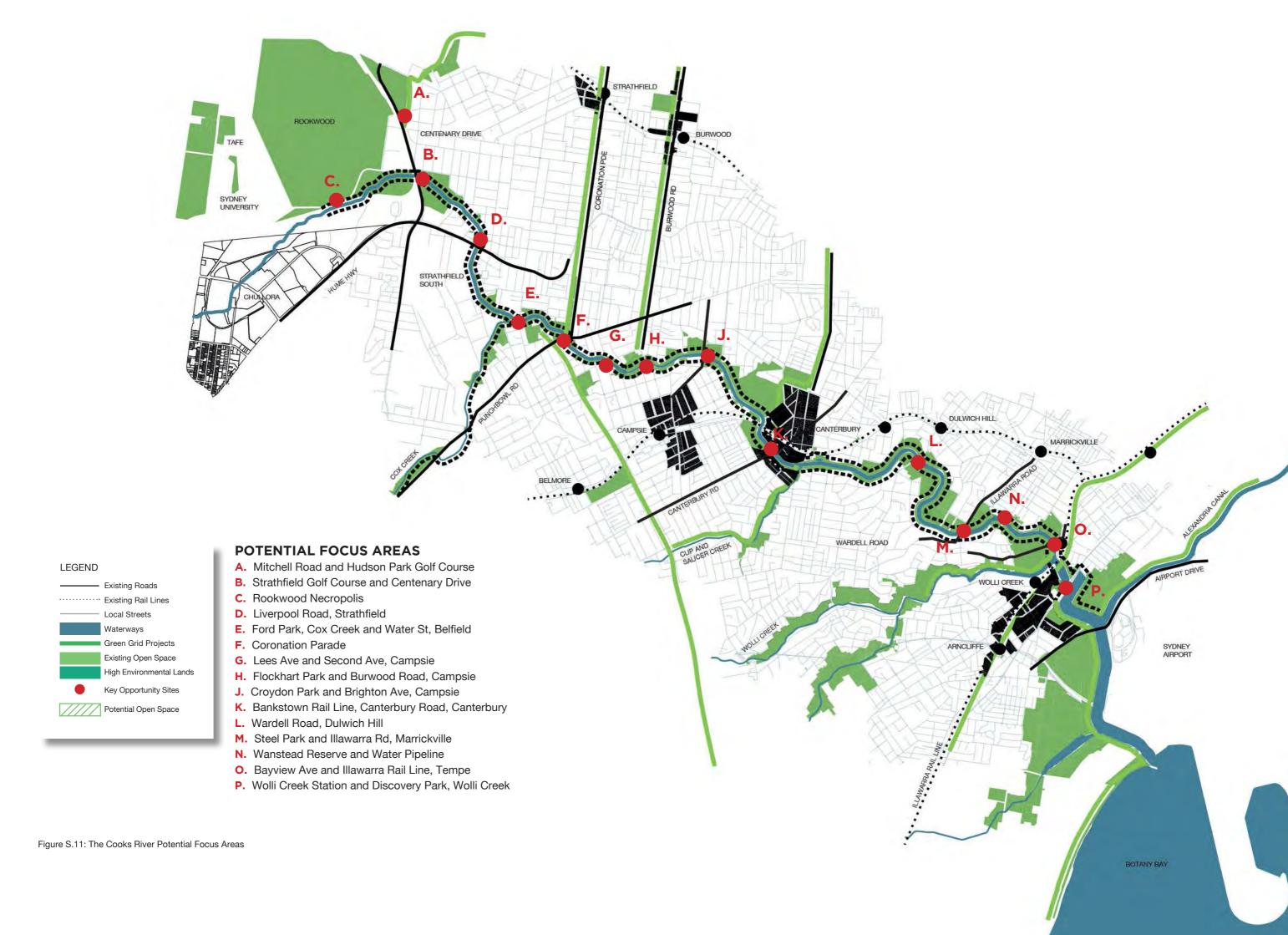




The Cooks River Green Grid provides a rare project opportunity across the Central and South Districts to provide a connected open space corridor from Botany Bay to Sydney Olympic Park.

There are many successful open spaces along the Cooks River corridor, however there are many missing links or barriers along the corridor.

The project aims to improve connectivity along the Cooks River and between the river and the neighbouring urban centres. It aims to improve water quality, mangrove and riparian areas.



WOLLI CREEK SOUTH: PRIORITY PROJECT







Wolli Creek is a tributary of the Cooks River and rises at Narwee from where it flows east. At Turrella it is joined by Bardwell Creek and shortly after, at the Henderson Street weir, the creek becomes tidal until its junction with Cook.

Wolli Creek and its tributary, Bardwell Creek, form the second largest sub-catchment of the Cooks River catchment covering 15.52 km2. Looking at the creek today, it is hard to imagine that, in the late 1800s, it was one of the most polluted waterways in Sydney.

The Wolli Creek and Bardwell Valley intersect with the East Hills Rail Line and the M5 Motorway. As a result there are a number of barriers that disconnect the surrounding residential areas from connecting across the Wolli Creek valleys.

The Wolli Creek Green Grid project aims to project walking and cycling links along and across the valleys, as well as improving usable open space along the corridor.



SALT PAN CREEK SOUTH: PRIORITY PROJECT





The Salt Pan Creek project has to opportunity to build upon existing fragments of open space along the corridor to create a continuous open space corridor between Bankstown CBD and the Georges River. Salt Pan Creek, combined with the Duck River Green Grid project, also provides an opportunity to extend major open space north-south corridor from the Georges River to Parramatta.

Salt Pan Creek has a number of major barriers particularly south of Bankstown. Major infrastructure corridors and industrial areas that are developed very close to the corridor edges.

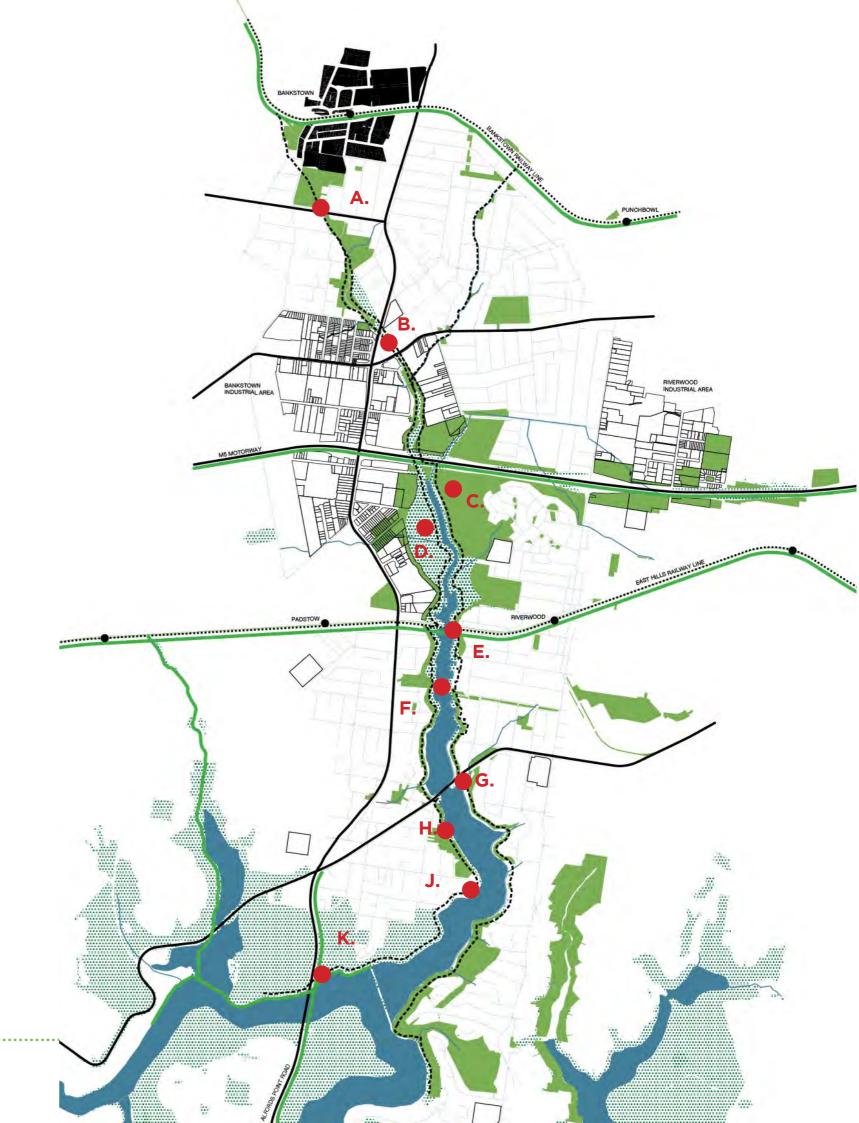
A deficiency in open space has been identified in Bankstown, Punchbowl and Riverwood. Salt Pan Creek provides an opportunity to provide critically needed open space in these areas.

POTENTIAL FOCUS AREAS

- A. Bankstown Oval and Macaulay Ave, Bankstown
- **B.** Fairford Road and Canterbury Road, Punchbowl
- C. Salt Pan Reserve
- D. Stuart Street Reserve and Wetlands
- E. East Hills Rail Line, Riverwood and Padstow
- F. Water Pipeline, Clarendon Road, Riverwood
- G. Henry Lawson Drive, Peakhurst
- H. Mangroves and Christadelphian Aged Care, Padstow Heights
- J. One Tree Point, Padstow Heights
- K. Beauty Point and Alfords Point Road



Figure S.13: Salt Pan Creek Potential Focus Areas





SOUTH DISTRICT OTHER IMPORTANT GREEN GRID OPPORTUNITIES









Bankstown to Sydenham **Open Space Corridor**

As an important Priority Planning Area, the Bankstown to Sydenham Rail Corridor will see significant development increase. This project aims to provide open space and an active transport corridor for the region. The project aims to increase to low levels of existing open space by transforming surplus rail easement land and wide local streets running parallel to the rail line into a public open space corridor that connects to urban centres and the Cooks River, Wolli Creek Regional Park, The Greenway Link. and Salt Pan Creek corridors.

Illawarra Rail Line Corridor: The Coastal Walk: Kurnell Wolli Creek to Sutherland

The Illawarra Rail Line Corridor has the potential to collocate active transport corridor, local open spaces, urban greening, and stormwater treatment along the excess rail easement lands and parallel local streets. The Corridor is naturally well located with centres along the rail line including the Priority Precincts of Arncliffe and Banksia, Wolli Creek, Rockdale, Kogarah, Hurstville and Sutherland. Existing sections are partially developed such as the Oatley to Como

to the Royal National Park

The Coastal Walk continues from Botany Bay and La Perouse and connects to Kurnell, Kamay Botany Bay National Park, Cronulla's Beaches and Bundeena. Cronulla's beautiful stretch of coastline is a congregation point for thousands of visitors providing the starting point for a cluster of projects which facilitate connection to Kamay Botany Bay National Park and Bonna Point Reserve. The Boat Harbour site is an important missing link through in the coastal walk from Kurnell to Cronulla, currently in ownership of the Office of Strategic Lands. The Boat Harbour site is an important ecological and recreational missing link in the coastal dunes open space corridor.

Kia'Mia Way River Foreshores Walk

The George River is one of the defining hydrological feature of the South District flowing from Holsworthy, Alfords Point in the west to Botany Bay in the east. The Georges River and surrounding parklands are important ecological, hydrological and recreational areas for the District. This project aims to connect the parklands together to protect and enhance threatened ecological communities, improve water quality and stormwater treatment, improve access to the river and parklands and create a continuous walking and cycling trail along the corridor.

Refer to additional information in the "Georges River Parklands and Chipping Norton Lakes" Green Grid Project description in the South West District.

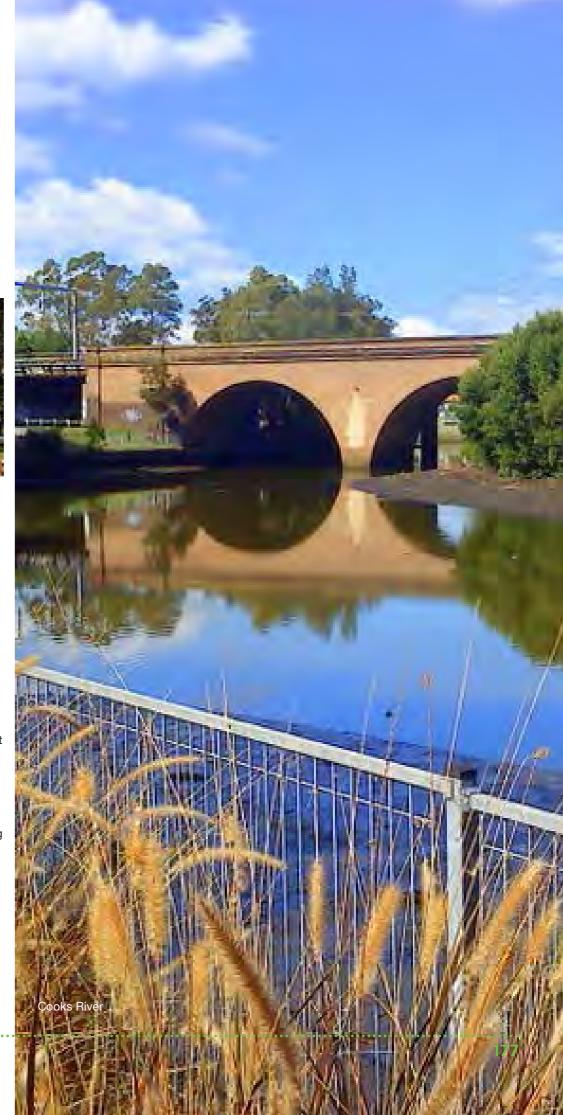


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IMAGE PAGE

S1 146

Towra Point Wetland

Source: http://www.nationalparks.nsw.gov. au/~/media/A378D078C42F446885BFE1D-F37CBE297.ashx

Photo: John Spencer/NSW Government

S2 147

Greenhills Cronulla

Source: http://images.realestateview.com. au/pics/018/greenhills-street-greenhillsbeach-nsw-2230-real-estate-photo-2-medium-5577018.jpg

Photo: Payne Pacific Estate Agents

Cronulla Beach

Source: NSW Office of the Government Architect's Collection

Royal National Park

Source: https://www.sydneycoastwalks. com.au//wp-content/uploads/2012/12/lowres_Otford-lookout.jpg

Photo: Cecilia Temperli

OEH, The Growth Centres Biodiversity Offset Source: http://backcountryroads.blogspot com.au/2011/02/cooks-river-cycleway-sydney.html

Photo: Gnome, Back Country Roads

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Cooks River, Canterbury

Source: https://airviewonline.com/gallery/ view/36924/canterbury

Photo: Airviewonline

S7 Carss Park

Source: http://mgnsw.org.au/media/ thumbs/uploads/organisations/PICNICK-ERS_ON_THE_RESERVE.jpg.890x500_q85_ crop_upscale.jpg

Photo: Museums & Galleries of NSW / Arts NSW

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Wentworth Park, Wolli Creek

Source: http://www.wollicreek.org.au/ wp-content/themes/wolliCreek/images/wol-

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Photo: Wolli Creek Preservation Society

Picnic Point, Yeramba Lagoon Source: https://en.wikipedia.org/wiki/ Picnic_Point,_New_South_Wales#/media/ File:Picnic_Point_Yeramba_Lagoon..jpg Photo: Adam.J.W.C. CC BY-SA 2.5

S10 156

Wolli Creek Kavaks

Source: http://www.wollicreek.org.au/ wp-content/wolliupload/2011/03/kayak 2 large.ipg

Photo: Wolli Creek Preservation Society

S11 156

Cooks River Cycleway

Source: http://cooksriver.org.au/wp-content/uploads/2016/06/CRA_6-Earlwood-

9526-1200x661.jpg Photo: Cooks River Alliance

S12 156

Wolli Creek Walking Track Source: https://www.nationalparks. nsw.gov.au/~/media/FBD0D6C48E-

B748149AAA926B977A3BD9.ashx Photo: John Spencer / NSW Government

S13 157

Beverly Hills High School Photo: Dan Sharp, Tyrrellstudio

Moorebank High School Source: http://www.tvrrellstudio.com/

Design: Tyrrellstudio

Photo: Haslin Constructions

S15 162 Cronulla Beach

Source: NSW Office of the Government Architect's Collection

S16 164

Greenhills Cronulla

Source: http://images.realestateview.com. au/pics/018/greenhills-street-greenhillsbeach-nsw-2230-real-estate-photo-2-medi-

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Photo: Payne Pacific Estate Agents

W17 168

Salt Pan Lake Padstow and Riverwood Source: http://washingtonpark.com.au/

location/ Photo: Payce Consolidated Limited

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W18 169 Cooks River

Source: http://backcountryroads.blogspot. com.au/2011/02/cooks-river-cycleway-sydney.html

Photo: Gnome, Back Country Roads

W19 169 Wolli Creek Kayaks

Source: http://www.wollicreek.org.au/ wp-content/wolliupload/2011/03/kayak_2_ large.jpg

Photo: Wolli Creek Preservation Society

W20 169

Salt Pan Lake Padstow and Riverwood Source: http://washingtonpark.com.au/ location/

Photo: Payce Consolidated Limited

W21 170 Cooks River

Source: https://en.wikipedia.org/wiki/ Earlwood,_New_South_Wales#/media/ File:Cooks_River_Earlwood.JPG

Photo: J Bar W22 170 Cooks River

Source: http://backcountryroads.blogspot. com.au/2011/02/cooks-river-cycleway-sydney.html

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W23 170 Cooks River

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Wolli Creek Kayaks

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Wolli Creek Regional Park Source: https://www.nationalparks. nsw.gov.au/~/media/218FCE2B9CDB-4F53A6B3662212E63D54.ashx

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W26 172 Wolli Creek

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Photo: John Spencer / NSW Government

W27 174

Salt Pan Lake Padstow and Riverwood Source: http://washingtonpark.com.au/

Photo: Payce Consolidated Limited

W28

Salt Pan Lake Padstow and Riverwood Source: http://washingtonpark.com.au/ location/

Photo: Payce Consolidated Limited

W29 176 Carss Park

Source: http://mgnsw.org.au/media/ thumbs/uploads/organisations/PICNICK-ERS_ON_THE_RESERVE.jpg.890x500 q85 crop_upscale.jpg

Photo: Museums & Galleries of NSW / Arts

W30 177

Bankstown to Sydenham Photo: Google Maps 2017

W31 177

Illawarra Rail Line, Wolli Creek, Discovery

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Photo: Frasers Property Australia

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Kurnell Coastline, Coastal Walk Source: http://www.nationalparks.nsw.gov. au/~/media/4F7C65C1617C45E09AF7FA-5FA3545CF1.ashx Photo: NSW Government

W33 177

Georges River

Source: https://www.nationalparks.nsw.gov. au/~/media/F166FCF15BB44C3FBCC7E-F1A82912084.ashx

Photo: John Spencer / NSW Government

W34 177 Cooks River

Source: http://backcountryroads.blogspot. com.au/2011/02/cooks-river-cycleway-sydnev.html

Photo: Gnome, Back Country Roads

FIGURE

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Figure S.6: South District Ecological Grid Plan

Figure S.7: South District Recreational Grid Plan

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Figure S.9: South Green Grid Project Opportunities

Figure S.10: South Preliminary Priority Projects Plan

Figure S.11: The Cooks River Potential Focus Areas

Figure S.12: Wolli Creek Regional Park Potential Focus Areas

Figure S.13: Salt Pan Creek Potential Focus Areas

GIS DATASETS

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