



Single Storey Houses

Single Storey Houses

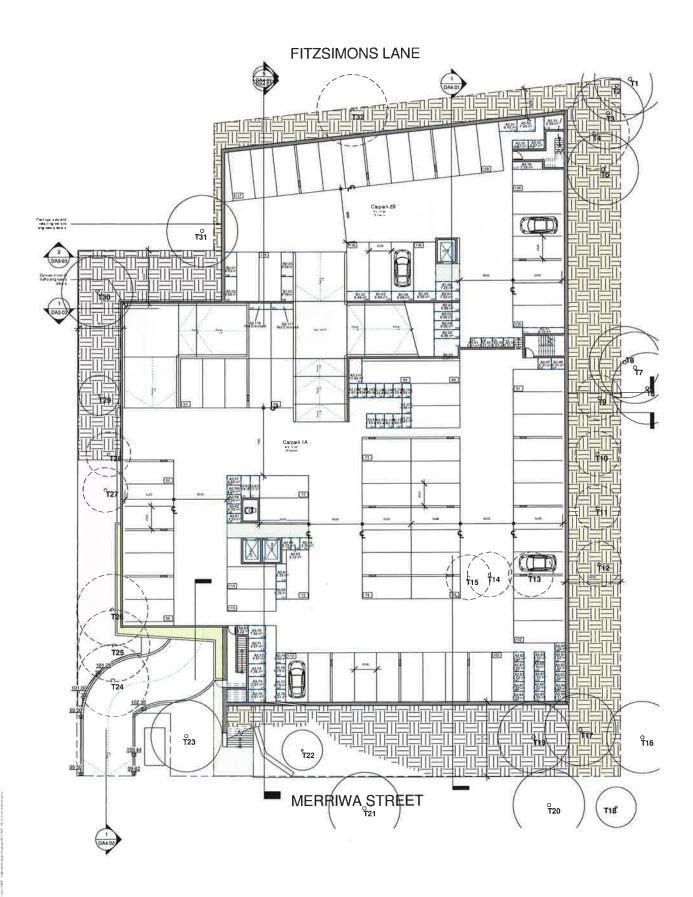
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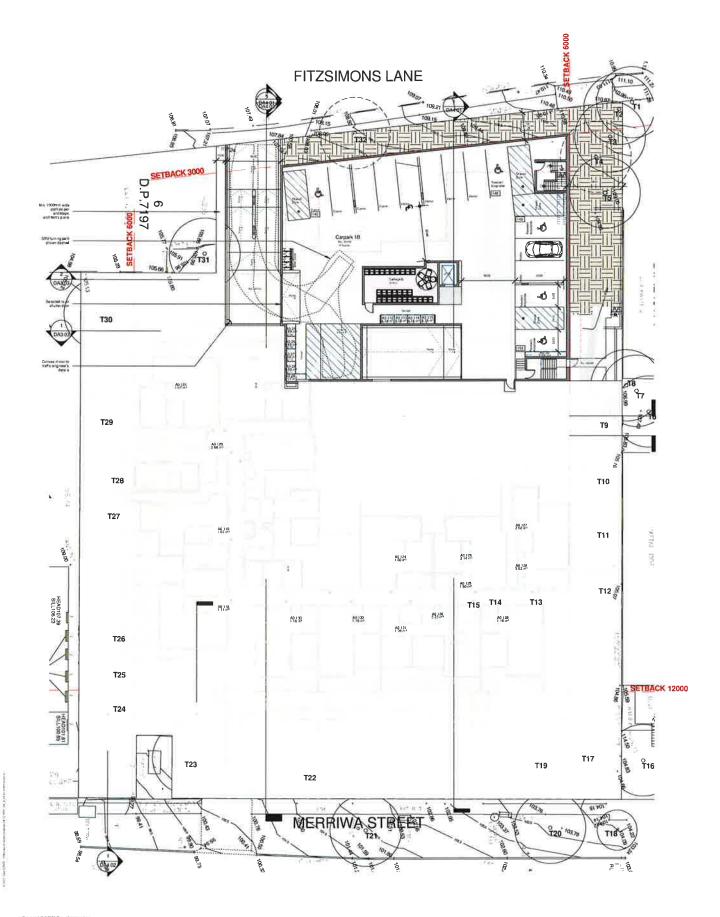






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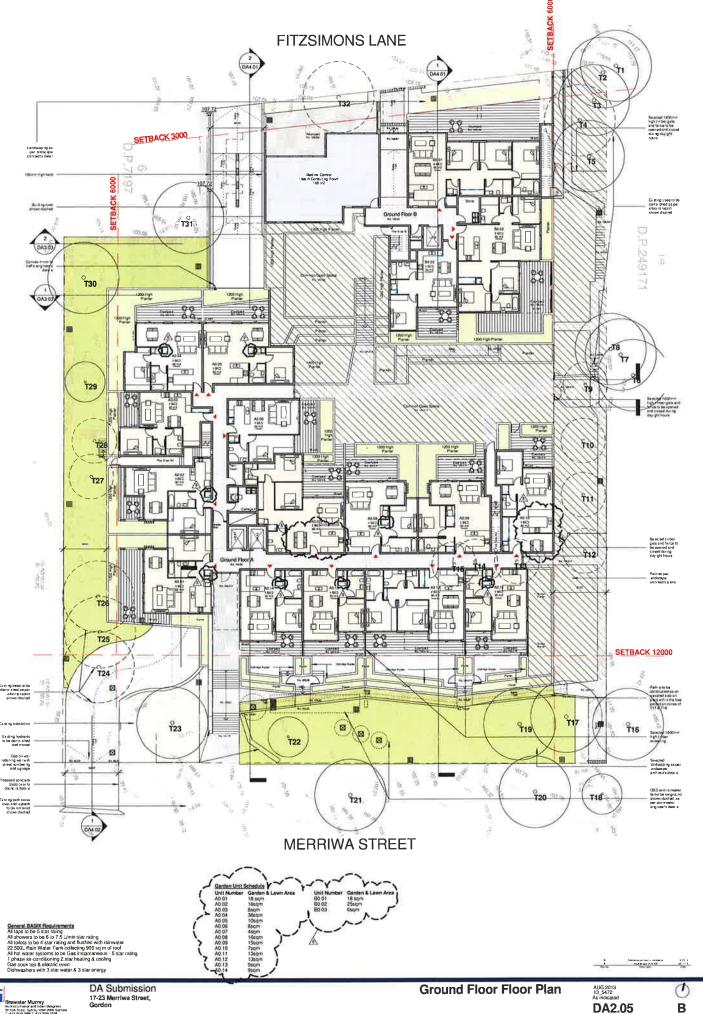
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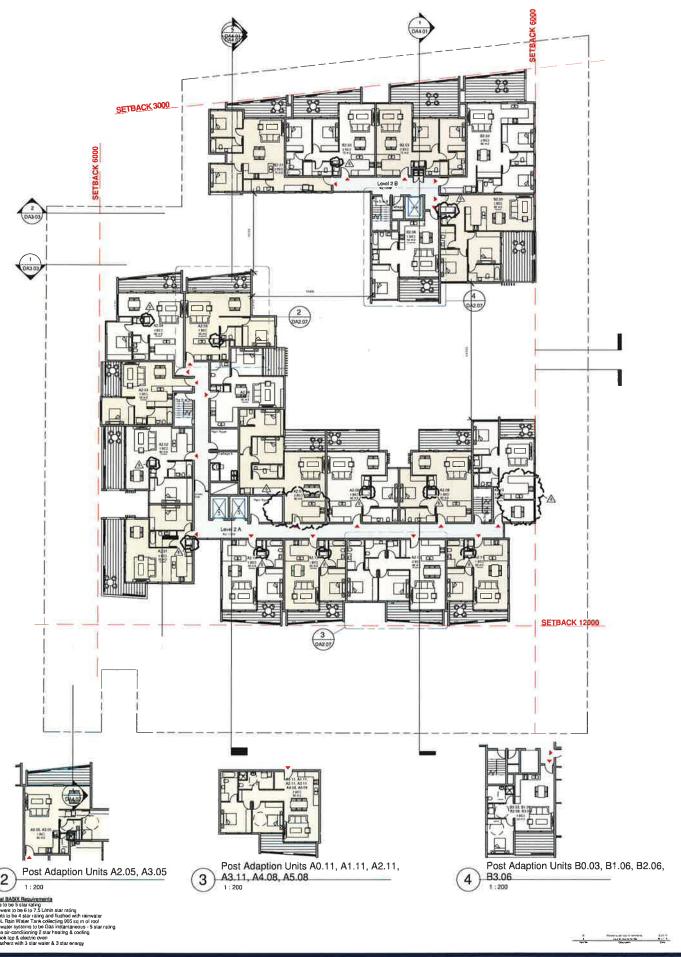
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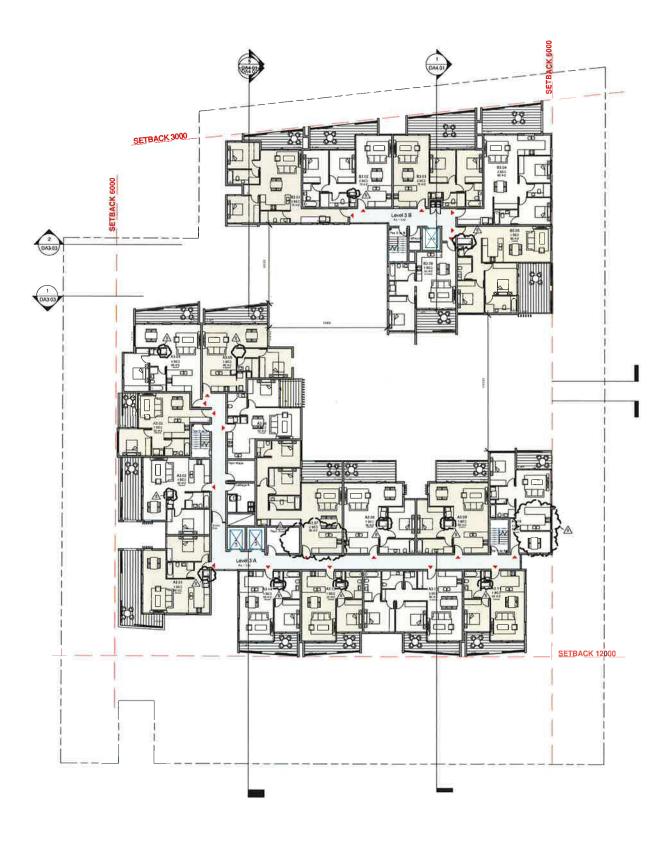


Level 2 Floor Plan

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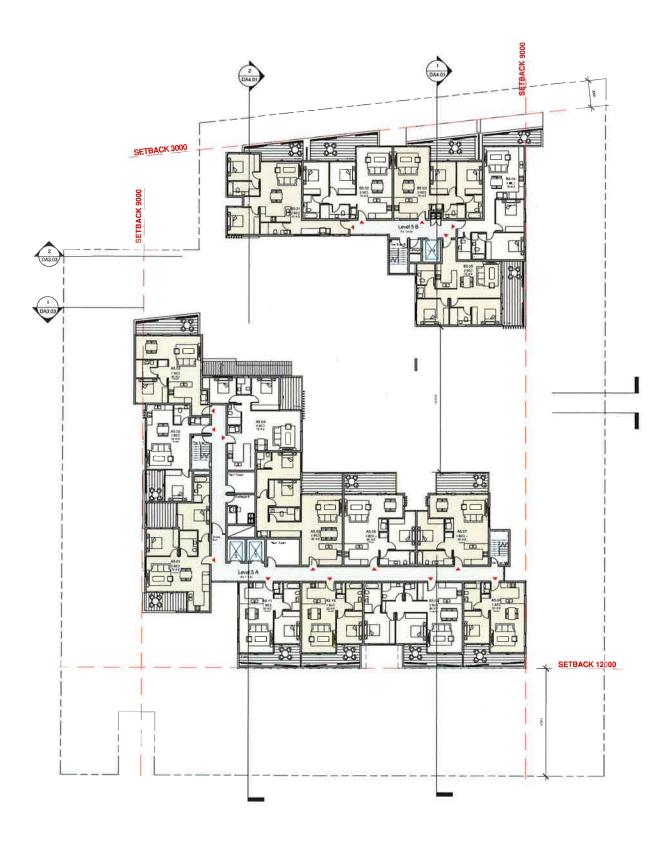
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General BASIX Requirements

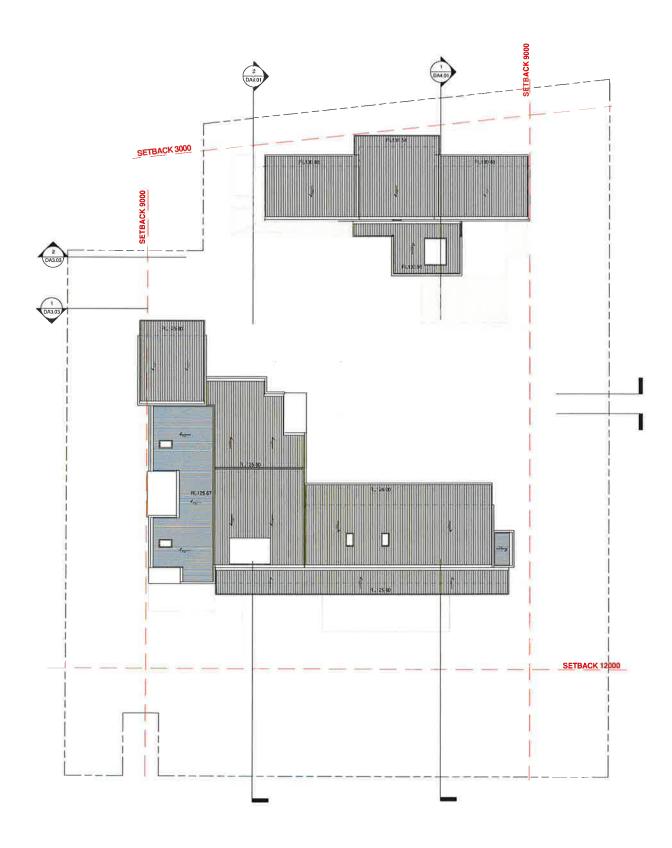
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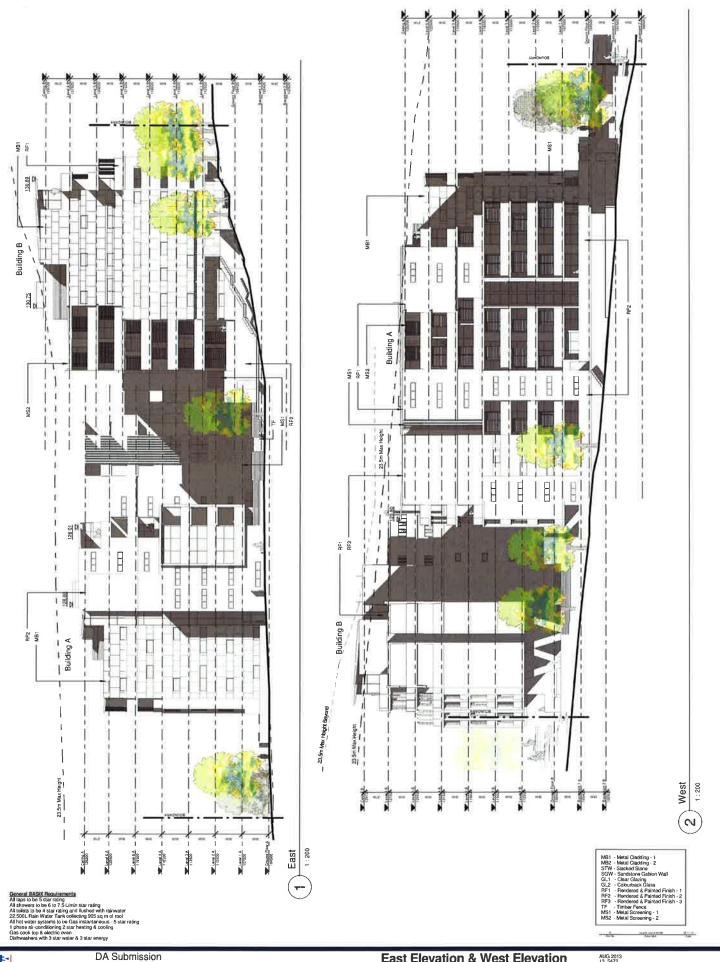


South Elevation (Merriwa Street) 1

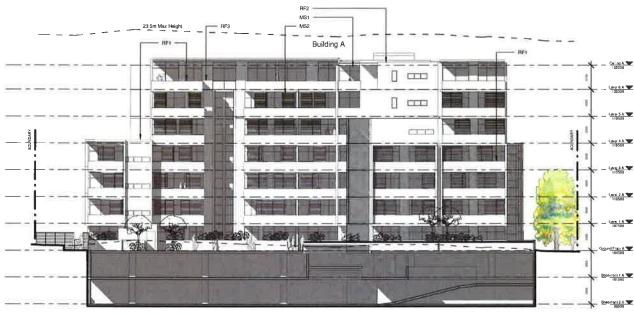




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17-23 Merriwa Street, Gordon



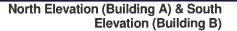
North Elevation (Building A)

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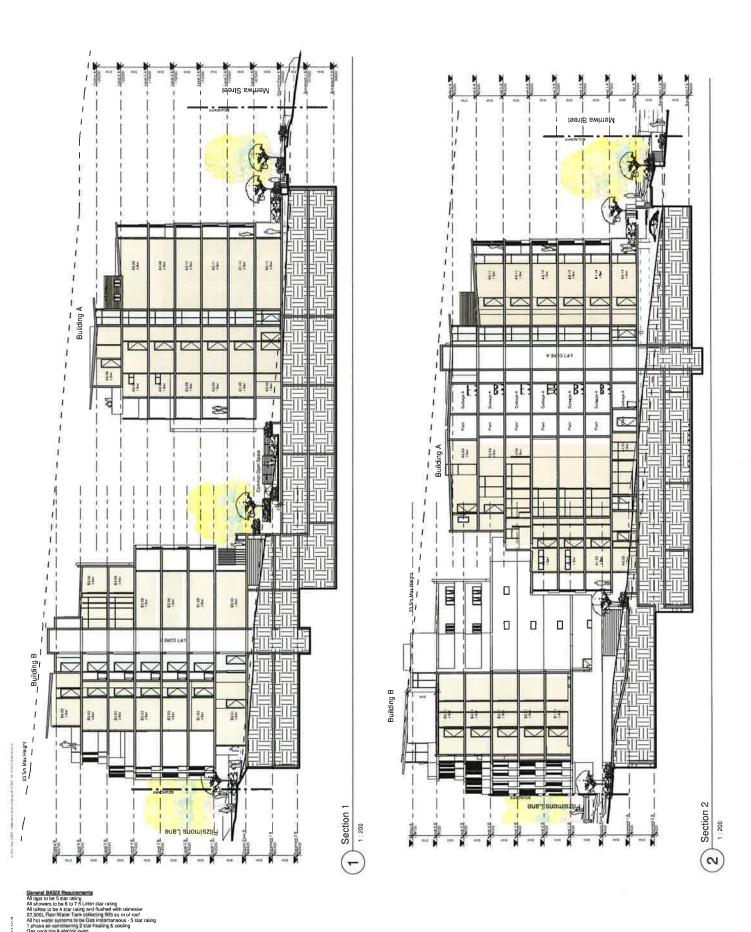
South Elevation (Building B) 2



DA Submission 17-23 Merriwa Street, Gordon



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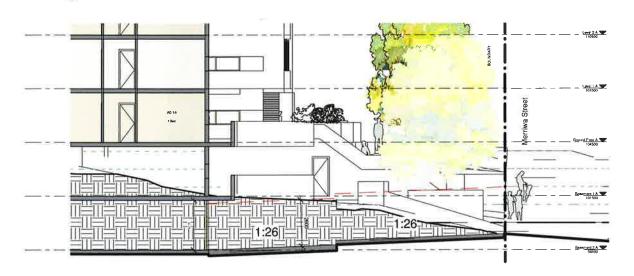


DA Submission 17-23 Merriwa Street, Gordon Sections 1 & 2

AUG 2013 13\_5472 As indicated **DA4.01** 

4.01





Entry Ramp Along Merriwa Street

**Longitudinal Sections** 

AUG 2013 13\_5472 1:100 DA4.02







3D Views South - Merriwa Street

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1:1

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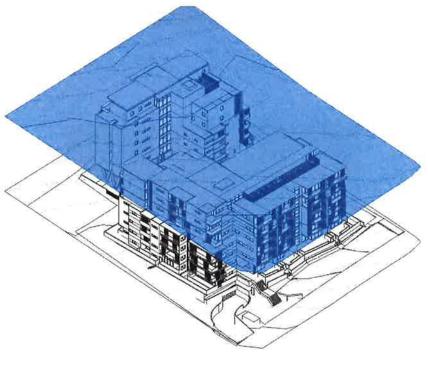
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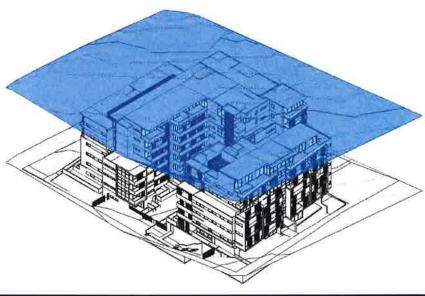




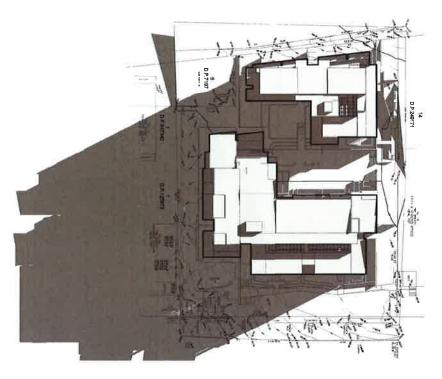






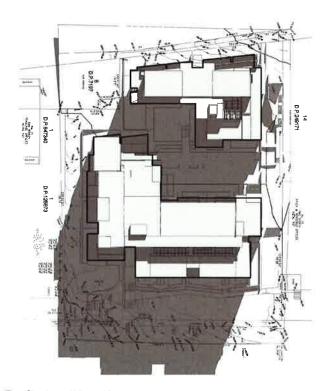


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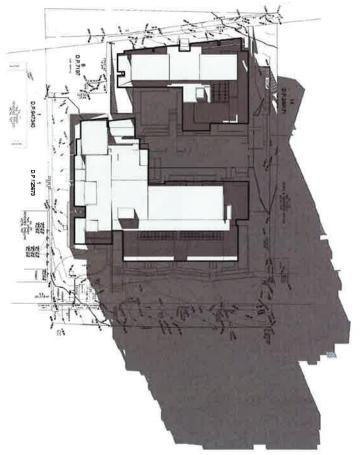


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Shadows\_Winter 9am



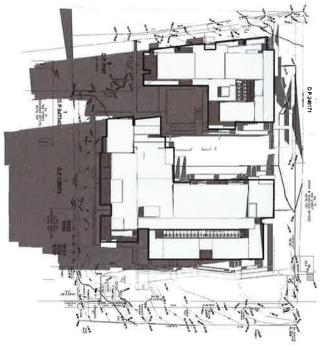
Shadows\_Winter 12pm 2

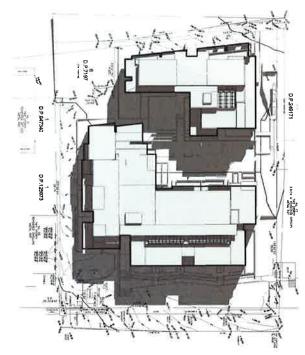


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Shadows\_Winter 3pm

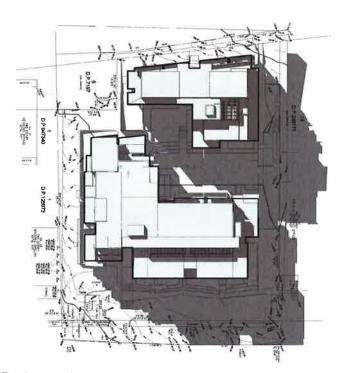






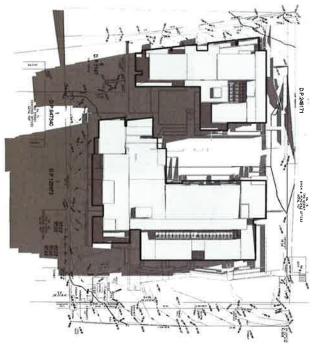
Shadows\_Autumn 9am

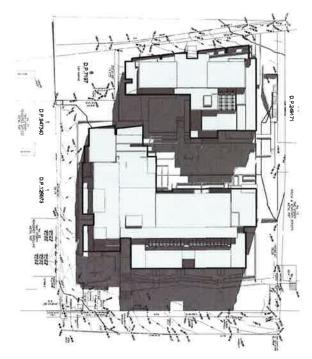
Shadows\_Autumn 12pm



Shadows\_Autumn 3pm

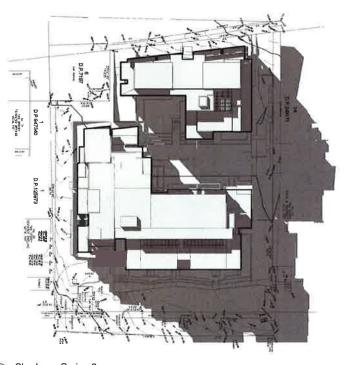
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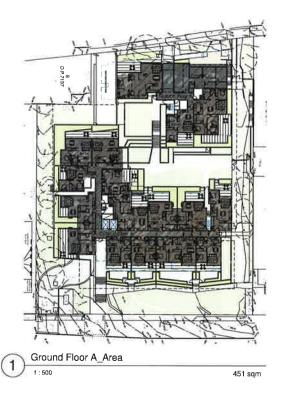
Shadows\_Spring 9am

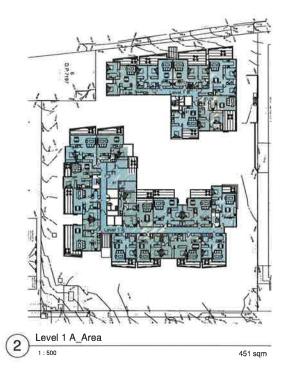
Shadows\_Spring 12pm 2

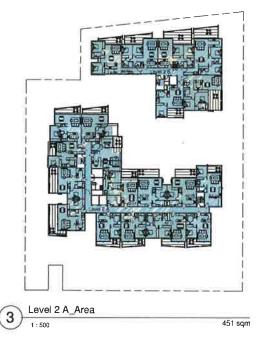


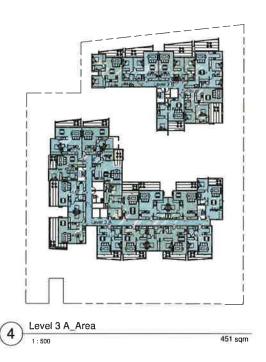
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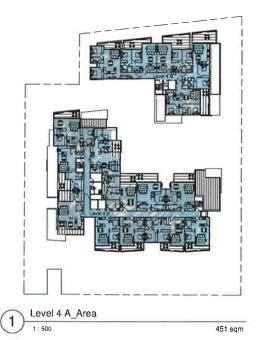
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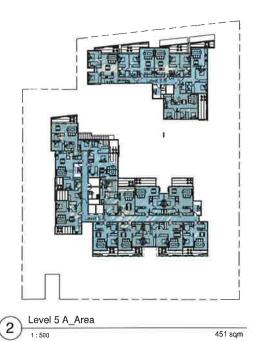






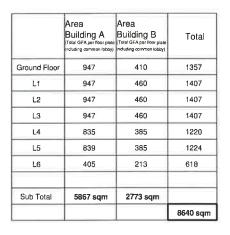






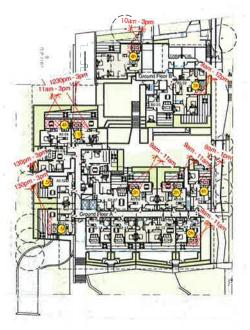
Level 6 A\_Area

451 sqm





3

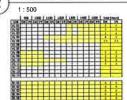


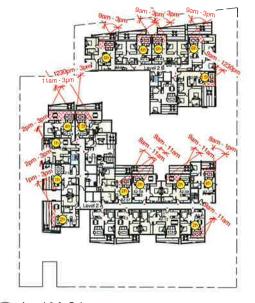




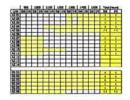


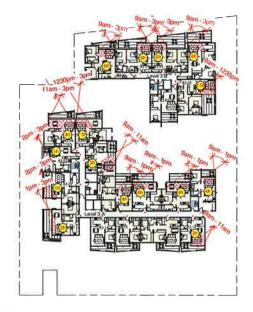
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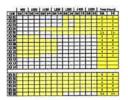


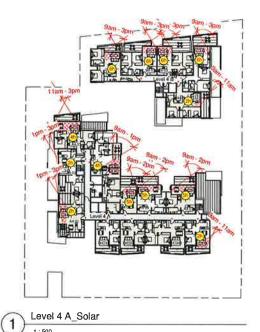
Level 2 A\_Solar (3) 1:500





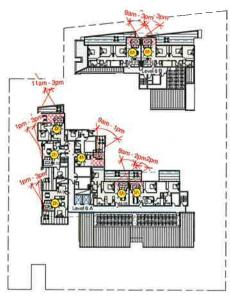
Level 3 A\_Solar



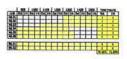


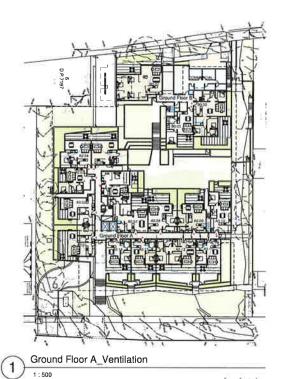
Level 5 A\_Solar (2)





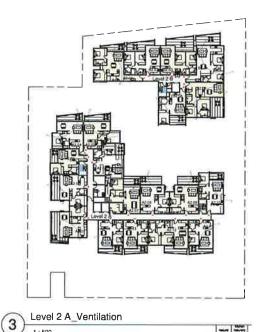
Level 6 A\_Solar 3 1:500

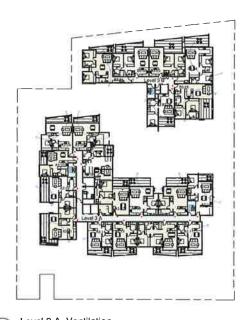




Level 1 A\_Ventilation (2) 1:500



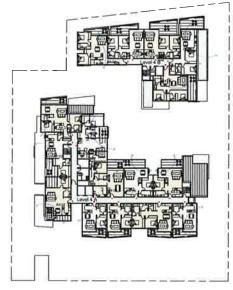




Level 3 A\_Ventilation (4



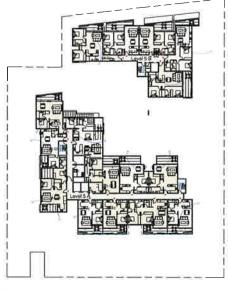
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Level 4 A\_Ventilation (1

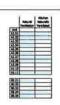
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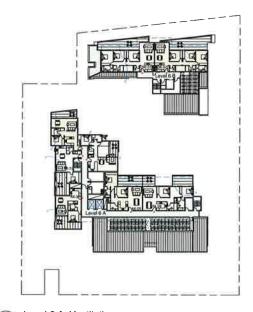




Level 5 A\_Ventilation (2)

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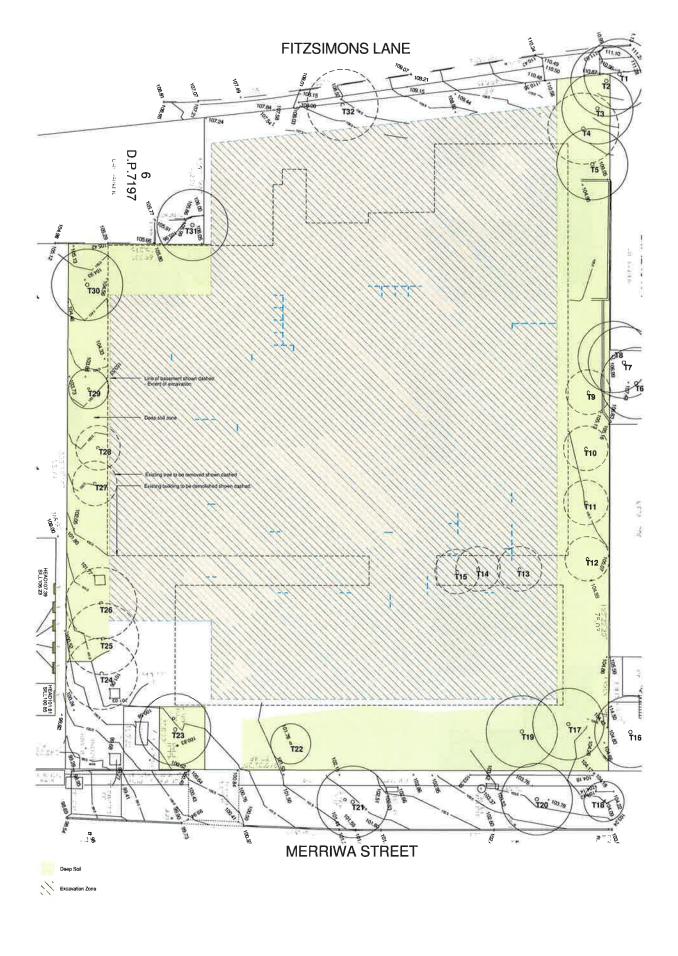




Level 6 A\_Ventilation 3

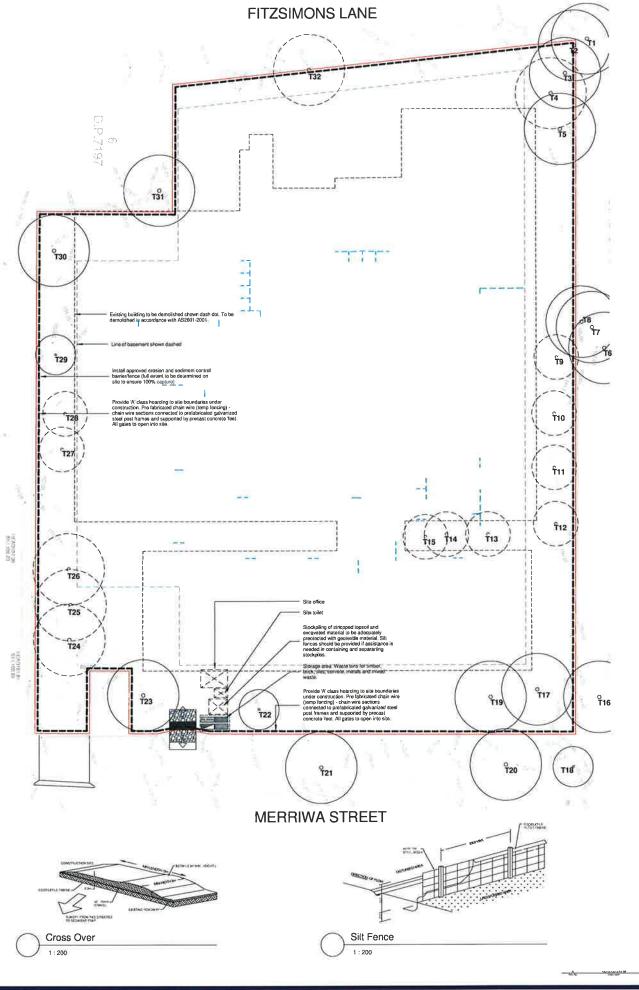
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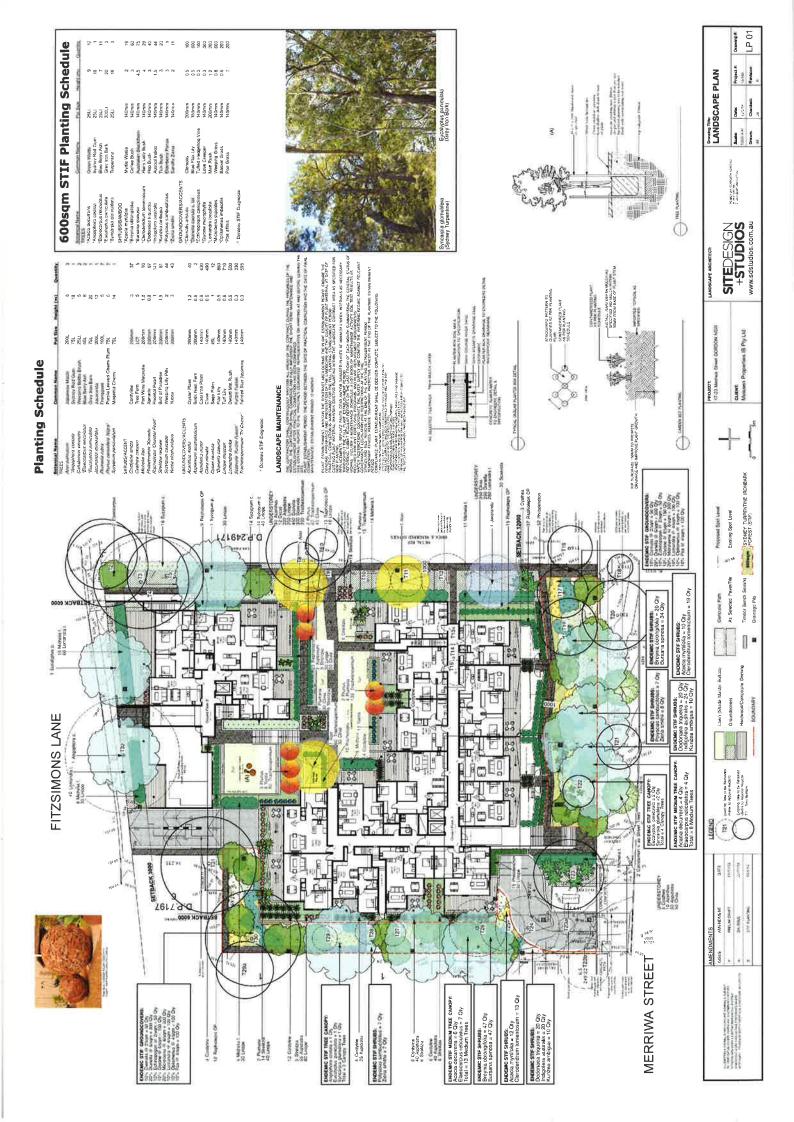


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## Appendix D

## Landscape Plan





## Appendix E

# Staff CVs

## Dr David Robertson

## Director



**Dr David Robertson's** ecological career has spanned 27 years since completion of his PhD at Melbourne University in 1985. He is a specialist ecologist with expertise in both botany and zoology and has worked as an ecological consultant since 1993.

During part of his career, David has also been a lecturer in plant taxonomy, plant ecology and freshwater ecology at Charles Sturt University and Austalian Catholic University. This has developed his capability to work in both aquatic and terrestrial flora and fauna inventory, management of threatened species, ecological risk assessment, wetland rehabilitation and management, and ecological research for environmental impact assessment.

Throughout his career, David has worked on a wide variety of ecological projects. This includes ecological projects across Australia, including New South Wales, Queensland, ACT, Victoria, Tasmania and Western Australia. He has also gained international experience as the senior ecologist involved with consultancies in Hong Kong, Sri Lanka and the Philippines.

Since the inception of Cumberland Ecology Pty Ltd in 2003, David and his team of ecologists at Cumberland Ecology have worked on ecological investigations throughout NSW, averaging over 80 projects per year. They have worked extensively within the Hunter Valley, Gunnedah Basin, Sydney Region, on coastal projects and in the Western Blue Mountains.

David has had, and continues to have, direct involvement in many large-scale vegetation mapping and flora and fauna impact assessment projects. David has worked on many projects that entail the preparation of ecological offsets and Cumberland Ecology has been engaged to monitor such offsets. Cumberland Ecology has helped to formulate offsets for many mining projects in NSW, and also for mines in north Queensland and in Mindanao (Philippines).

Under David's direction, an array of monitoring work has been and is being conducted at sites in the Hunter Valley, Gunnedah, Coffs Harbour and Western Sydney.

#### Education

Bachelor of Science (Honours), Ecology, University of Melbourne, 1980.

Doctor of Philosophy, Ecology, University of Melbourne, 1986.

David undertook his tertiary education at Melbourne University, completing a Bachelor of Science majoring in botany and zoology. This included a thesis submitted as part of the requirements for the B.Sc. Honours Degree at The University of Melbourne School of Botany:

Aspects of the Ecology of Eucalyptus sideroxylon (A. Cunn, ex W. Wool) at Point Addis, Victoria (November 1980).

He completed his Doctor of Philosophy in 1985 at the School of Botany, which was entitled:

Interrelationships between Kangaroos, Fire and Vegetation Dynamic at Gellibrand Hill Park, Victoria (August 1985).

# Professional Memberships and Affiliations

Ecological Society of Australia

**Ecological Consultants Association of NSW** 

He is also an accredited BioBanking Assessor.

### **Employment History**

David has lectured in ecology and aquatic biology at Charles Sturt University. Consultancy employment includes as a senior ecologist with the Australian Museum, senior ecologist in charge of the Ecological Services Practice for ERM Australia, and Director of Cumberland Ecology (current).

2003- 2013 - Cumberland Ecology: Director

1997-1993 - ERM: Senior Ecologist

1998-1999 - Australian Catholic University: Lecturer (part time)



1995-1996 - Australian Museum: Senior Ecological Consultant

1987-1994 - Charles Sturt University: Lecturer

1986-1987 - University of Melbourne: Research Fellow

## **Offsets Experience**

David has been involved in the development of biodiversity offset packages for a number of projects, which have included strategic assessments of land as compensatory habitats and involvement in the development of indirect offsets such as threatened species recovery plans. As part of the development of suitable offsets, David is regularly involved in negotiations with clients and regulators about the level of mitigation measures required for flora and fauna impacts.

Recent examples of projects requiring significant offsets work entailing the selection of suitable remnant vegetation for enduring protection and habitat for threatened species listed under the EPBC Act and TSC Act include the:

- Mt Pleasant Project Modification: involved in the selection and subsequent ecological investigations of candidate offset lands, resulting in a substantial offsets package of over 12,000 ha. Further involvement in the development of an Offset Management Plan designed to effectively manage and monitor the offsets for conservation and ecological gains.
- Maules Creek Coal Project is a large-scale flora and fauna baseline study of 2,700 hectares of forest and woodland in the locality of Narrabri, New South Wales. The purpose of the study, which has been ongoing since 2008, was to assess the potential impacts of proposed open cut mining on biodiversity. Key biodiversity values of the Project Area include a number of threatened bird and bat species as well as threatened ecological communities such as the critically endangered Box Gum Woodland.

- Warkworth Mine Extension Project: assistance in the development of an approved offset package. Involved in fauna surveys of the offsets to provide baseline data on their ecological value, particularly for threatened species, and which fulfil a component of the Project's conditions of consent.
- Drayton South Coal Project: involved in the strategic selection and survey, including vegetation mapping, flora and fauna investigations, of suitable offsets.
- Shenhua Watermark Coal Project; presents a complex suite of ecological issues Critically including Endangered and Endangered Communities **Ecological** (including areas of Box Gum Grassy Woodland), threatened flora and fauna. In particular Koalas, an iconic species for which the area is well known, are present within the proposed Watermark Project Boundary. This has resulted in extensive surveying and mapping of suitable offsets.
- Bengalla Mine Project involves preparation of an EIA to support a State Significant Development application. The Project impacts include clearing of Box Gum Woodland and Derived Native Grassland. as well the removal of habitat for a range of threatened species and an endangered population. This has involved negotiations with State and Federal Government Authorities to develop appropriate offsets for Project impacts. This includes participation in the Upper Hunter Strategic Assessment. Cumberland Ecology currently preparing an Assessment Report for submission as part of the UHSA, including summary of the results of extensive flora and fauna survey and calculations using the Biodiversity Certification Assessment Methodology (BCAM).

## Dr Gitanjali Katrak

## Project Manager/Ecologist



**Gitanjali Katrak** is a Project Manager/Ecologist at Cumberland Ecology, based in Sydney. She has a Bachelor of Sciences (Biological Sciences) with Honours and a PhD in intertidal wetland ecology.

Gitanjali has has been involved in vegetation mapping, flora and fauna surveys and impact assessments as part of development applications for a variety of projects, particularly residential subdivisions and mining projects in NSW. Recently, she has managed State Significant Developments and Section 5A assessments with endangered ecological community and threatened species issues. She has also been involved in the preparation of affidavits and Statements of Evidence in Land and Environment Court cases and statistical analyses of ongoing monitoring projects.

Recent consultancy work has included:

- Flora and fauna impact assessments for State Significant Developments, Part 3A projects and Part 5 projects;
- Vegetation mapping and targeted threatened species habitat assessment and surveys;
- Impact assessment and offsetting for mining projects;
- Statistical analyses for legal court cases and ongoing monitoring programmes.

## **Fields of Competence**

- Commonwealth Environment Protection and Biodiversity Conservation Act 1999;
- NSW Threatened Species Conservation Act 1995;
- Ecological surveys, particularly assessment of threatened species and ecological communities;
- > Report writing; and
- Statistical analyses.

## **Key Industry Sectors**

- > Urban development; and
- > Mining and Extraction industries.

#### **Education**

- Bachelor of Science (Honours) in Biological Sciences, La Trobe University, VIC. 2002
- Doctor of Philosophy, Intertidal Wetland Ecology. Flinders University, SA. 2011

## **Key Projects**

### Wallarah 2 Coal Project

Gitanjali is currently managing the Ecological Impact Assessments and Offset Strategy for the Development Application of the State Significant Wallarah 2 Coal Project.

#### St. Mary's Development - Lend Lease

Gitanjali is involved with the progressive development of the former ADI site at St Marys, Western Sydney. Assessments have included the preparation of large scale Species Impact Statements for the Western Precinct DA's

### Flora and fauna surveys

Gitanjali has been involved in ecological assessments including Species Impact Statements and Flora and Fauna Assessments as part of development applications for a variety of projects in the greater Sydney Metropolitan area.

## Statistical analysis

Gitanjali has experience conducting statistical analyses, using programmes such as SPSS and PRIMER, to determine biological patterns and community structure.

## Cecilia Phu

## Senior Project Manager/Botanist



**Cecilia Phu** is a senior project manager and botanist at Cumberland Ecology based in Sydney. She has a Bachelor of Science (Honours) with a major in Biology.

Cecilia has been involved in numerous ecological impact assessment projects with threatened species or endangered ecological community issues and routinely assesses projects in response to State and Commonwealth threatened species legislation. Her work entails vegetation mapping, targeted survey for threatened species, impact assessment and report preparation. Cecilia manages major ecological impact assessments, biodiversity offsetting and management projects.

Cecilia also has experience in survey design, community and population data analysis (SPSS and ePRIMER) and collection, storage and analysis of geospatial data required to provide key strategic advice to clients and department agencies (CivilCad, MapInfo). Recent consultancy work has included:

- Vegetation mapping;
- > Flora and fauna impact assessment;
- Biobanking assessments;
- Development of bushland management plans with focuses on threatened species habitat management, weed control and bush regeneration; and
- > Monitoring studies for approved activities.

#### **Fields of Competence**

- Commonwealth Environment Protection and Biodiversity Conservation Act 1999;
- NSW Environmental Planning and Assessment Act 1979:
- NSW Threatened Species Conservation Act 1995;
- Biobanking Assessors Training Course at TAFE Ryde;
- Botanical survey, biological monitoring and environmental impact assessment; and
- Geospatial Information Systems (GIS).

### **Key Industry Sectors**

Urban, industrial and logistics, infrastructure, extraction.

## **Education**

Bachelor of Science, University of Sydney, 2006.

Bachelor of Science (Honours) in Biology,
University of Sydney, 2008

## **Key Projects**

#### Flora and Fauna Impact Assessments

Since 2008, Cecilia has ecological assessments in the Hunter region and the Gunnedah Basin for major mining projects. She has also worked within the Gallilee and Bowen Basins in north Queensland. She has also worked the Sydney Metropolitan area and has particular experience within the Sydney Growth Centres and the Western Sydney Employment Area.

## **BioBanking Assessments**

Cecilia has assessed a number of impacts and offsets for projects using the BioBanking assessment methodology in the Sydney Basin and Hunter Valley regions. Work has included vegetation mapping, flora and fauna surveys and habitat assessments. Data collected during fieldwork was utilised within the BioBanking Credit Calculator.

### Management Plans and Monitoring

Cecilia has assisted with the development of management plans for development and offsetting projects in the Sydney, north east NSW and western NSW areas. Such projects have involved monitoring of grazing, vegetation restoration and animal population census.

#### Other Projects

Cecilia has been involved in terrestrial and aquatic ecology studies for a gold mining project in the Phillippines. She has worked closely with local botanists and zoologists in the Phillippines and was involved in the preparation of the terrestrial ecology and aquatic reports for the Project's international Environmental Impact Statement.

## Bryan Furchert

## Project Manager/Botanist



**Bryan Furchert** is a Project Manager and Botanist at Cumberland Ecology, based in Sydney. He has a Bachelor of Biodiversity and Conservation, focussing on population genetics of plant species in fragmented habitat remnants, and in exotic, invasive weed populations.

Bryan has 6 years experience in Bushland Regeneration, as a Team Leader. He has experience in the assessment of degradation of native vegetation communities and identification of factors contributing to exotic weed invasion of communities on a site by site basis. Bryan has extensive experience in vegetation management and community restoration within Hawkesbury Sandstone soil communities, and also has experience surveying shale soil communities, in particular the Critically Endangered Ecological Community Cumberland Plain Woodland. He has experience in identifying plant species and vegetation communities throughout the Sydney Basin Bioregion.

Bryan also has experience in Geographic Information Systems (GIS - MapInfo), statistical analysis of biodiversity values with biodiversity indices, and population census of fauna species. Recent consultancy work has included:

- Vegetation Management Plans;
- > Flora and fauna impact assessment; and
- Monitoring studies

#### **Fields of Competence**

- Botanical surveys;
- Commonwealth Environment Protection and Biodiversity Conservation Act 1999;
- NSW Threatened Species Conservation Act 1995;
- NSW Noxious Weeds Act 1993; and
- Weeds of National Significance (WoNS) Identification and Control.

### **Key Industry Sectors**

- Urban development;
- Industrial and logistics;
- Infrastructure; and
- Extraction.

## **Education**

Bachelor of Biodiversity and Conservation from Macquarie University, 2012

Diploma of Conservation and Land Management, Belmont TAFE, 2009

#### Courses

- Grass identification within the Sydney area;
- > Eucalypt identification within the Sydney area;
- > Recognising Water Weeds (DPI), and
- Aboriginal Site Awareness (The Aboriginal Heritage Office)

## **Key Projects**

#### **Exotic Weed Management**

Since 2006, Bryan has worked in control of exotic weeds extensively throughout the Manly LGA. Tasks have included site assessment, weed elimination, targeting Noxious Weeds and WoNS, and management of daily work programme for a team of five.

## **Bushland Restoration**

Bryan has been involved in the restoration of natural bushland areas in a number of Hawkesbury Sandstone soil derived coastal vegetation communities. These include the Endangered Ecological Communities Littoral Rainforest in the New South Wales North Coast, Sydney Basin and South East Corner Bioregions, and Duffys Forest Ecological Community in the Sydney Basin Bioregion. Tasks included weed management, revegetation, preparation for ecological and fuel reduction burns, and erosion control.

#### Consultancy Work

Bryan has worked on a range of projects including flora surveys, vegetation management plans, ecological constraints analyses for development applications, and flora monitoring on long term projects.

## Michelle Frolich

## GIS Specialist



**Michelle Frolich** is a Sydney based GIS Specialist at Cumberland Ecology. She has a Bachelor of Science (Marine Science) (Honours) degree.

Michelle has detailed technical knowledge and experience in the interpretation and production of mapping products, including topographic modelling and classification and feature extraction using aerial photography and satellite imagery. At Cumberland Ecology, Michelle is closely involved in all major projects and is responsible for GIS development, mapping and analyses, as well as the training of staff in GIS.

Recent consultancy work has included:

- GIS mapping and analysis for various mining projects for Environmental Assessments, Biodiversity Management Plans, NSW Part 3A project applications and Referrals under the Commonwealth EPBC Act;
- Vegetation, threatened flora and fauna mapping for large and small scale projects;
- GIS mapping for and performing BioBanking Assessments for large and small Development and Offset Sites; and
- GIS mapping for and performing Bio-Certification Assessments for mining projects involved in the Upper Hunter Strategic Assessment.

## **Fields of Competence**

- Geographic Information Systems (GIS);
- Image and spatial data analysis;
- BioBanking Assessment Methodology;
- OEH Bio-Certification Assessment Methodology;
- Coastal and estuarine morphodynamics; and
- Data and project management.

#### **Key Industry Sectors**

- Urban Development; and
- Extraction industry.

#### Education

Bachelor of Science (Marine Science) (Honours), from the University of Sydney (2007)

## **Key Projects**

### **NSW Mining Projects**

Michelle has extensive experience working on GIS mapping for Part 3A Major Projects relating to mining in the Central Hunter Valley and Namoi CMA. She has been involved in the GIS mapping of vegetation communities, threatened flora and fauna species and produced detailed maps for field surveys.

#### National Projects

Michelle has been involved in the mapping of vegetation communities, threatened flora and fauna species and produced detailed field maps for Part 3A Major Projects relating to mining in Western Queensland.

#### **OEH Upper Hunter Strategic Assessment**

Michelle has been involved in the preparation and mapping of vegetation communities and threatened flora and fauna for Biodiversity Certification Assessments for mining projects in the Upper Hunter Valley as part of the OEH Upper Hunter Strategic Assessment. She has liaised with various members of OEH and attended workshop meetings.

#### **BioBanking Assessments**

Michelle has been invovled in the mapping for and assessment of projects using the BioBanking Assessment Methodology for small and large projects in the Sydney Basin, Hunter Valley and Namoi CMA. She has extensive experience using collected data within the BioBanking Credit Calculator, and in producing high quality maps for BioBanking reports.

#### **Other Projects**

Michelle has also worked on several other small scale projects in Sydney and throughout NSW, using GIS for vegetation mapping, mapping of threatened flora and fauna species, production of field maps and image analysis. She has also assisted with field surveys for flora and fauna.



Appendix F

# Flora list

Table F.1 Flora Species Recorded within Subject Site

		Evotic/Non-							
Species	Соттоп	endemic	PP4	PP2	PP3	PP4	PP5	PP6	PP7
Angophora costata	Smooth-barked Apple							+	
Callistemon viminalis	Weeping Bottlebrush	*		+					
Casuarina glauca	Swamp Oak				+	+			
Corymbia citriodora	Lemon-scented Gum	*	+						
Eucalyptus microcorys	Tallowwood	*	+						
Eucalyptus paniculata	Grey Ironbark		+						
Pinus sp.	Exotic Pine	*			+				
Syncarpia glomulifera	Turpentine			+		+	+		
Syzygium paniculatum	Lilly Pilly							+	+
Ardisia crenata	Coral Berry	*						+	
Azalea indica		*						+	
Buxus microphylla		*	+					+	
Callistemon citrinus	Crimson Bottlebrush			+		+			
Camellia sasanqua		*						+	
Cinnamomum camphora	Camphor Laurel	*	+			+		+	
Cotonoeaster pannosus								+	
Ficus pumila	Climbing Fig	¥							+
Gardenia sp.		*	+					+	

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Table F.1 Flora Species Recorded within Subject Site

		Exotic/Non-							
Species	Common	endemic	PP1	PP2	PP3	PP4	PP5	PP6	PP7
Ligustrum lucidum	Broad-leaf Privet					+		+	+
Magnolia grandiflora		*						+	
Melaleuca quinquenervia	Broad-leaved Paperbark		+						+
Murraya paniculata	Orange Jessamine	*	+						+
Nandina domestica	Heavenly Bamboo	٠		+				+	
Olea europaea susp. cuspidata	African Olive	*				+			
Syzygium australe		**	+						
Bidens pilosa	Cobbler's Pegs	*				+			
Celtis sinensis	Chinese Celtis	**				+			
Cirsium vulgare	Spear Thistle	*						+	
Conyza bonariensis	Fleabane	*							+
Conyza sumatrensis	Fleabane	•				+			
Dichondra repens	Kidney Weed								+
Elaeocarpus reticulatus (Seedling)								+	
Euphorbia peplus	Petty Spurge	*				+			
Gnaphalium sp.		*							+
Grevillea robusta	Silky Oak	*				+			
Hypochaeris radicata	Cat's Ear	*						+	+
Ligustrum sinense	Small-leaf Privet	*			+			+	

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Table F.1 Flora Species Recorded within Subject Site

		Exotic/Non-							
Species	Соттоп	endemic	PP1	PP2	PP3	PP4	PP5	PP6	PP7
Modiola caroliniana	Red-flowered Mallow	*							+
Ochna serrulata	Mickey Mouse Plant	4			+	+			
Oxalis comiculata	Wood Sorrel	*						+	
Oxalis perennans	Wood Sorrel		+						
Parietaria judaica	Asthman Weed	¥	+						
Phytolacca octandra	Inkweed	*						+	
Plantago lanceolata	Lamb's Tongue								+
Portulaca oleracea	Common Purslane	*	+						
Pratia purpurascens	White Root							+	
Sida rhombifolia	Paddy's Lucerne	*	+						
Soliva sessilis	Bindii	*							+
Sonchus oleraceus	Milk Thistle	*			+				
Taraxacum officinale	Dandelion	<b>.</b> ≇°	+					+	+
Ulmus parviflora	Chinese Elm	*				+		+	
Veronica plebeia	Trailing Speedwell								+
Agapanthus praecox	Agapanthus	*						+	
Agave americana	Century Plant	*							+
Asparagus aethiopicus	Sprenger's Asparagus	*				+		+	
Clivia miniata	Clivia	*							+

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Table F.1 Flora Species Recorded within Subject Site

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Cordyline fruticosa		*						+	
Cyperus gracilis						+			
Cyperus tenellus		*							+
Dianella caerulea var. producta	Blue Flax Lily				+			+	
Doryanthes excelsa	Gymea Lily		+		+			+	
Hedychium gardnerianum	Ginger Lily	*							+
Lomandra longifolia (Tanika cultivar)	Mat Rush	*	+	+					
Nothoscordum borbonicum	False Onion Weed	•						+	
Ophiopogon japonicus	Mondo Grass	¥						+	
Philodendron 'Xanadu'		*			+	+		+	
Tradescantia fluminensis	Wandering Jew	¥			+				
Zantedeschia aethiopica	Arum Lily	*							+
Axonopus fissifolius	Carpet Grass	*							+
Ehrharta erecta	Panic Veldtgrass	*	+			+		+	+
Oplismenus aemulus	Basket Grass				+	+		+	
Pennisetum clandestinum	Kikuyu	*	+						
Poa labillardieri	Tussock Grass				+				
Sporobolus africanus	Parramatta Grass	•	+						
Cissus antarctica	Kangaroo Vine	-			+				

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Table F.1 Flora Species Recorded within Subject Site

		Exotic/Non-							
Species	Соттоп	endemic	PP1	PP2	PP3	3 PP4	PP5	PP6	PP7
Hedera helix	English Ivy	*			+				
Stephania japonica	Snake Vine				+				

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