

Phase 1 Environmental Site Assessment - Rail Corridor Land for SIMTA Moorebank Intermodal Terminal Facility



SIMTA

SYDNEY INTERMODAL TERMINAL ALLIANCE

Part 3A Concept Plan Application

REPORT

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Rail Corridor Land for SIMTA Moorebank Intermodal Terminal Facility

Submitted to:

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Arben Management Pty Ltd Golder Associates Pty Ltd







Table of Contents

1.0	INTRO	INTRODUCTION1				
	1.1	Objectives	1			
	1.2	Scope of Services	1			
2.0	SITE	SITE DESCRIPTION				
	2.1	Site Location and Setting	3			
	2.2	Site Topography and Surface Water	4			
	2.3	Geology	4			
	2.4	Hydrogeology	4			
3.0	ніѕтс	DRICAL RECORDS REVIEW	6			
	3.1	Aerial Photographs	6			
	3.2	Certificates of Title	6			
	3.3	Other Historical Information	8			
	3.4	Summary of the History of the Site and Surrounding Areas	8			
4.0	REGU	REGULATORY AGENCY RECORDS SEARCH				
	4.1	Contaminated Land Management Act 1997	g			
	4.2	Protection of the Environment Operations Act 1997 (POEO)	9			
	4.3	Council Records	9			
5.0	PREV	IOUS ENVIRONMENTAL INVESTIGATIONS	12			
	5.1	Egis (2000) – Preliminary Site Investigation	12			
	5.2	HLA (2002) Soil and Groundwater Investigation	13			
	5.3	Contamination Management (2002)	13			
	5.4	Heritage Assessment of the Moorebank Defence site at Moorebank (2002)	13			
	5.5	Other reports	13			
	5.6	Summary of Previous Environmental Reports	13			
6.0	CURR	ENT SITE ACTIVITIES AND OBSERVATIONS	13			
	6.1	Above Ground and Underground Storage Tanks	13			
	6.2	Asbestos-Containing Materials	14			
	6.3	Hazardous Material and Wastes Storage, Handling and Management	14			
	6.4	PCB-containing Materials and Equipment	15			
	6.5	Wastewater/Stormwater Discharges	15			





	6.6	Radon	. 15
	6.7	Unexploded Ordnance (UXO)	. 15
	6.8	Landfilling	. 15
	6.9	Surrounding Land Use	. 16
7.0	SUMM	ARY OF POTENTIAL CONTAMINATION	. 18
	7.1	Potential Contaminants of Concern	. 18
8.0	CONCL	_USIONS	. 19
9.0	RECO	MMENDATIONS AND NEXT STEPS	. 19
10.0	LIMITA	TIONS	. 20
TAB	LES		
Table	e 1: Sum	nmary of Rail Link Land Parcels	3
Table	e 2: Sum	nmary of Historical Ownership	6
PLA			
Plate	1: Pote	ntial ACM materials identified west of the existing rail spur	. 14
Plate	2: Illega	ally dumped building materials identified north of Lot 1 DP825352	. 16

FIGURES

Figure 1 – Site Layout

Figure 2 – Areas of Environmental Interest

APPENDICES

APPENDIX A

Site Ownership Summary Tables and Certificates of Title

APPENDIX B

NSW OEH Public Register Search Record

APPENDIX C

POEO Act 1997 License and Search Information

APPENDIX D

Section 149 Planning Certificates

APPENDIX E

Site Photographs



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PHASE 1 ESA SIMTA RAIL CORRIDOR LAND

1.0 INTRODUCTION

The Sydney Intermodal Terminal Alliance (SIMTA) is a joint venture between Stockland Developments Pty Ltd (Stockland), Qube Logistics and QR National. The SIMTA Moorebank Intermodal Terminal Facility (SIMTA proposal) is proposed to be located on the land parcel currently occupied by the Defence National Storage and Distribution Centre (DNSDC) on Moorebank Avenue, Moorebank, south-west of Sydney. SIMTA proposes to develop the DNSDC occupied site into an intermodal terminal facility and warehouse/distribution facility, which will offer container storage and warehousing solutions with direct rail access. The project will be undertaken in stages.

The SIMTA site is located in the Liverpool Local Government Area, covers approximately 82 hectares, is identified as Lot 1 in DP1048263 and zoned as General Industrial under Liverpool City Council LEP 2008. The parcels of land to the south and southwest that would be utilised for the proposed rail corridor cover approximately 65 hectares and adjoin the Main Southern Railway to the north.

Golder Associates Pty Ltd (Golder) was engaged by Stockland, via Arben Management Pty Ltd (Arben) on behalf of SIMTA to conduct a Phase 1 Environmental Site Assessment (ESA) of the rail corridor lands (the site) located in Moorebank, NSW (as shown on Figure 1).

The Phase 1 ESA was prepared in general accordance with the Golder proposal ref. P17623116 dated 22 June 2011 and the guidelines approved under Section 105 of Contaminated Land Management Act 1997 including the Guidelines for Consultants Reporting on Contaminated Sites (NSW EPA 1997).

1.1 Objectives

The objective of this assessment is to address the Project's Director-Generals Requirement (DGRs) that the assessment of potential ground contamination issues that was completed for the project include the rail corridor connection to the Main Southern Railway. To address the DGRs the assessment must include:

- Assessment of potential land contamination, and identification of the need for remediation having regard to the ecological and human health risks posed by past land uses;
- Where remediation is required, presentation of remediation options;
- Natural soil constraints, including potential acid sulfate soils; and
- Taking into account the Acid Sulfate Soils Manual (ASSMAC), and the guidelines approved under Section 105 of Contaminated Land Management Act 1997.

1.2 Scope of Services

The scope of the assessment included a review of historical and current conditions at the site that could have resulted in contamination of soil and/or groundwater at the site. The assessment included the following components:

- Review of selected publicly available historical information, including:
 - Historical aerial photographs; and
 - Historical land titles;
- Review of local zoning and planning overlay maps;
- Review of regulatory databases relating to the site, including:
 - Office of Environment and Heritage (OEH) Contaminated Land Register; and
 - OEH POEO Public Register;





- Department of Land and Property Information of groundwater bores registered on the groundwater bore database within 500m of the site;
- Review of relevant publicly available geological, hydrological and hydrogeological information;
- Review of environmental reports prepared by others as described in Section 4.0; and
- An inspection (DNSDC, Glenfield Quarry and Waste Disposal Facility and rail corridor) to identify areas of environmental concern, including an interview with a site representative on the DNSDC site. The active rail corridor was viewed from accessible vantage points, including from within the DNSDC land, from within the Glenfield Quarry and Waste Disposal Facility and from the Moorebank Road overpass, however, without entering the active rail corridor.



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2.0 SITE DESCRIPTION

The following information regarding the site is based on the information available at the time of the assessment (described in section 1.2) and the site walkover on 25 July 2011 (DNSDC with Site Representative Ken O'Neil including the active rail corridor vantage points) and a site walk over of the Glenfield Quarry and Landfill completed on the 15 November 2011 (including the active rail corridor vantage points).

2.1 Site Location and Setting

The SIMTA site will be supported by a rail link, which will connect the site with the Main Southern Railway located approximately 1.3km to the west of the site.

The rail link will consist of a rail corridor (inferred to be approximately 30 metres wide) that will cross from the Main Southern Railway and will enter the SIMTA site from the south. At the time of this assessment, the exact position and layout of the rail link was yet to be determined, however it is understood that the rail link is expected to cross several portions of lands, refer to Table 1 and Figure 1.

Table 1: Summary of Rail Link Land Parcels

Lot / DP	Owner	Description and Current Use*
1 / 1048263	SIMTA	The SIMTA site. The portion of the site where the rail corridor is proposed appeared as vacant grass land.
3001 / 1125930	The Commonwealth of Australia	Land immediately south and south-west of SIMTA site, including the School of Military Engineering. The land immediately south of the SIMTA site appeared as bushland, and a golf course is located on the land south-west of the SIMTA site.
1 / 825352	Railcorp NSW	Railway land to north of the East Hills Passenger Line, which appeared as vacant grass land with some areas of bushland.
5 / 833516	Helen Louise Kennett, Figela Pty Ltd and JC and FW Kennett Pty Ltd	Privately owned land north of East Hills Passenger Line, east of Cumberland and South of Passenger Line and Main Southern Railwayand west of Georges River. The land appeared to be used for quarry and landfilling activities, rehabilitation evident on the southern lots.
51 / 515696	JC and FW Kennett Pty Ltd	
52 / 517310	F ty Ltu	
104 / 1143827	1	
103 / 1143827	Figela Pty Ltd	
4 / 1130937	The Commonwealth of Australia	Land west of the Georges River, north of the private properties.
6 / 833516	Railcorp NSW	Railway land along shared railway line - Cumberland and South Passenger Line and Main Southern Railway.
101 / 1143827	1	
102 / 1143827	1	



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PHASE 1 ESA SIMTA RAIL CORRIDOR LAND

*Current use descriptions are based on recent aerial photographs and observations made during the site inspection of 25 July 2011.

2.2 Site Topography and Surface Water

Douglas Partners (2009a) indicate that the overall DNSDC site is relatively flat throughout southern and western areas of the site. This is consistent with the rail corridor land on the eastern side of the Georges River. Which are generally flat, with ground slopes typically less than five degrees and range between approximately 10 and 20m relative to the Australian Height Datum (AHD). Anzac Creek is located about 200m to the south of the SIMTA site and runs from west to east across the eastern portion of the rail corridor lands. Anzac Creek is ephemeral and flows in a northerly eastern to northern direction for about 5km before meeting Lake Moore on the Georges River.

The site of the proposed rail corridor land located on the western portion of the Georges River is currently being used as the Glenfield Quarry and Waste Disposal Facility. The topography of the area has been significantly altered by extractive processes and subsequent filling activities. It is expected that the final landform, at the completion of the extractive/filling processes will generally be flat, with engineered gradients directing surface flow towards the Georges River.

2.3 Geology

Douglas Partners (2009a and 2009b) reference the Penrith 1:100 000 geological sheet which indicates that the overall DNSDC site is underlain by tertiary fluvial deposits composed of clayey sand and clay to depths greater than 10m in places. This is also applicable to the rail corridor lands proposed for the eastern side of the Georges River. The Penrith 1:100 000 geological sheet indicated that the western allotments are underlain by quaternary fluvial deposits of medium grained sand, clay and silt.

Douglas Partners (2009b) indicates the southern part of the overall DNSDC site, including the DNSDC area, is comprised of silty sand topsoil to depths of 0.3m overlying clay fill to variable depths of between 0.5m and 1.5m. Silty clay and ironstone indurated silty clay is present beneath the clay fill material (HLA 2002). Two deeper boreholes were advanced by HLA (2002) to construct groundwater monitoring wells (BHHP34002 to 11.80m bsl and BHHP34011 to 10.50m bsl) that were both terminated in clay. Drilling was not extended south of the DNSDC, therefore it is uncertain if the fill materials extend into the rail corridor lands.

The quarry activities undertaken on the western side of the Georges River has significantly changed the local geology. A significant portion of the quaternary sand deposits appear to have been removed and the resultant excavations filled with waste materials, including building demolition, shredded car tyres and asbestos waste materials. Licensed groundwater bores completed on the Glenfield Waste Facility (west of the Georges River), recorded the geology around the perimeter of the site to be sandy clay and sands to approximately 10m depth, overlying shale to approximately 20m depth, overlying sandstone to approximately 30m depth.

The National Acid Sulfate Soils Atlas indicates there is a low probability that the proposed rail corridor lands are underlain by acid sulfate soils (http://www.asris.csiro.au viewed on 12 August 2011).

2.4 Hydrogeology

On a regional scale, groundwater flows within the shale and quaternary alluvial deposits, in a north and westerly direction towards the Georges River. Douglas Partners (2009a) indicates that URS (2002)¹ note two aquifers as present, a shallow one and a deeper one, with groundwater depths about 6m to 11m below ground level (m bgl).

The extraction and filling activities on the western side of the Georges River are likely to have a short term impact on the groundwater flows, however it is expected that groundwater will flow in an easterly direction across the site towards the Georges River. Licensed groundwater bores located on the Glenfield Waste

¹ URS (2002) acting as Principal Environmental Advisor to the Department of Defence provided the interpretation of the soil and groundwater investigation completed by HLA (2002).





Facility were generally screened between 20 and 30m depth, however initial water strikes were reported between 8 and 10m depth.



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3.0 HISTORICAL RECORDS REVIEW

The following information for historical records is adopted from the Egis (2000) Stage 1, the HLA (2002) Soil and Groundwater Investigation and updated to reflect currently available information.

3.1 Aerial Photographs

Egis (2000) provides a review of aerial photographs from 1949 to 1998 for the entire Moorebank Defence Lands. This included the rail corridor lands nominated south of the DNSDC and portions of the golf course, located south-west of the SIMTA site. The following information, taken from Egis (2000), is for the rail corridor land only.

- 1949 Land clearing activities are evident in the area immediately south of the DNSDC with several bare patches of earth evident. The remaining land south and south-west of the DNSDC area appeared as bushland with several small access tracks. The land west of the Georges River, appeared to be open farmland with crops and orchards evident.
- 1961 The areas south and south west of the DNSDC appear relatively unchanged from the 1949 photo, consisting of bushland with several small access tracks evident. The land west of the Georges River appears to be continuing to be used as farmland however the western most portions of the land are not visible in the photograph presented in the Egis (2000) report.
- 1974 The area south of the DNSDC development area appears unchanged however the Military Engineers Golf Course has been constructed to the west of the DNSDC. Quarry activities appear to have commenced on the land west of the Georges River, with flooded excavations evident immediately west of the Georges River.
- 1994 The area immediately south of the DNSDC appears relatively unchanged with the exception of increased use evident along the access track running parallel with Anzac Creek. The East Hills passenger rail line, including a rail siding entering the centre of the DNSDC site, is evident south of the DNSDC. An area of cleared vegetation, potentially containing infrastructure associated with the passenger railway is also evident south of the DNSDC development area. The quarry activities west of the Georges River appear well established with several pits and processing areas evident in the photograph
- 1998 The areas remain relatively unchanged compared to the 1994 photograph.

Golder have reviewed the 2011 aerial image to evaluate potential changes in land use since the 1998 image. No discernable change of land use between 1998 and 2011 is apparent, with the exception that filling activities have been undertaken on the quarry, west of Georges River, with several areas appearing to have been rehabilitated and covered with vegetation.

3.2 Certificates of Title

Copies of Land titles and transfers obtained from the Land and Property NSW were reviewed in order to identify historical Site ownership. A summary of the historical site ownership is presented in Table 2. Summary tables and copies of the Certificates of Title are included as Appendix A.

Table 2: Summary of Historical Ownership

Lot / DP	Current Owner	Historical Ownership
1 / 1048263	SIMTA (The Trust Company)	From 1889 – 1993 the land was owned by the Commonwealth of Australia.
3001 / 1125930	The Commonwealth of Australia	From 1993 the land has been owned by the Commonwealth of Australia





Lot / DP	Current Owner	Historical Ownership
1 / 825352	Rail Corporation NSW	From 1925 – 1993 the land was owned by the Commonwealth of Australia.
5 / 833516	Helen Louise Kennett, Figela Pty Ltd and JC and FW Kennett Pty Ltd	The various lots that now comprise of the Glenfield Quarry and Waste Disposal Facility have had several owners most notable have been; 1937 – 1948; Margaret Ross McClure
51 / 515696		1946 – 1966; Clifford James Kennett, Farmer
52 / 517310		1947 – 1967; Eugene Erskine Claude, orchardist
104 / 1143827		1967 – 1979; Robert Alexander Paul, company executive
1017 1110027		1948 – 1952; James Freeland Leacock, retired land valuer
103 / 1143827		1952 – 1966; Rural Homes Co-operative Ltd
1007 1140027		1966 – Current; Helen Louise Kennett, Figela Pty Ltd and JC and FW Kennett Pty Ltd
4 / 1130937	The Commonwealth	This land has been consolidated from several lots, with the
	of Australia	following notable owners:
		From 1949 – 1965; Brian Norman de Meyrick, grazier
		1965 – 1967 The Commonwealth of Australia
		1947 – 1967 Eugene Erskine Claude, orchardist
6 / 833516	Railcorp NSW	The land has had the following owners:
404 / 44 40007		1947 – 1967; Eugene Erskine Claude, orchardist
101 / 1143827		1967 – 1979; Robert Alexander Paul, company executive
102 / 1143827		1979 – 1987; Stantavus Pty Ltd

Egis (2000) provides limited historical title information and report that the Moorebank Defence Lands has been in the name of the Commonwealth of Australia since the early 1920s and is identified as Lot 1403 in DP 848565. The title of the Moorebank Defence Lands was Lot 56 in DP 104763 in 2002 and is currently identified as Lot 1 in DP1048263. This lot is currently registered to the Trust Company Limited.

Based on the above information, generally farming activities appear to have been undertaken on portions of the Glenfield Quarry and Waste Facility site prior to quarrying activities. Pesticides and herbicide use may have occurred on these areas, however it is expected that surface soils likely to have been impacted by the use of chemicals, have been stripped as part of the quarrying activities. It is also apparent that portions of the land have been used by the Commonwealth of Australia for Defence purposes.



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PHASE 1 ESA SIMTA RAIL CORRIDOR LAND

3.3 Other Historical Information

Although the historical title information is limited, Egis (2000) provides a summary of the history for the defence lands between the 1800s to 2000. The source of this information is not referenced and pertinent sections are reproduced below.

The Moorebank area was first settled around 1800. Thomas Moore received his first land grant in the area in 1805 and built a country mansion and settled on the land which he called "Moore Bank" in 1809. In 1888 the trustees of the Church of England decided to subdivide the Moore Estate. Following subdivision in the Moorebank area, the blocks comprising the site were sold in the early 1890s. The area comprising the DNSDC site, the golf course and vacant lots south of the DNSDC site were acquired by the Department of Defence, as part of the Holsworthy complex, in the early 1900s, although records indicate that much of the land in the Moorebank/Holsworthy area was being used for Defence related purpose from at least the late 1800s.

The golf course located within the Steele Barracks was constructed in 1970s. Prior to this the south-western portion of the golf course and the current Demolitions Training area was the location of the former mock Viet Cong village. The mock Viet Cong village comprised underground tunnels and structures for training during the Vietnam War. Following the war the area was demolished, though it is likely that tunnel materials are still buried.

The DNSDC was established in the early to mid 1990s, though a storage centre has been situated in the same location since the 1940s. The development of the DNSDC in the 1990s generally involved the removal of earlier structures/facilities to slab level in the area immediately to the east of Moorebank Avenue and subsequent building of updated storage facilities.

Earlier Defence activities on the DNSDC site may have had a potential to cause contamination. The southwest corner of the DNSDC, where the proposed rail corridor lands are situated, was an unauthorised burial ground. In April 1994, World War II burial pits (potentially containing batteries as the old battery store was located in this portion of the site) were delineated in the southern section of the DNSDC to the immediate south of the existing POL storage area. It is understood that not all of these identified burials were remediated at the time.

3.4 Summary of the History of the Site and Surrounding Areas

A review of historical information by Egis (2000), HLA (2002) and Douglas Partners (2009a and 2009b) together with our assessment of the available information indicates:

- The bush areas immediately south of the DNSDC area have remained relatively unchanged, with some portions of the land cleared and used intermittently. A portion of the land was transferred to Rail Corp in early 1990s and appeared to have been used as a stockpiling area during the construction of the East Hills passenger rail line;
- The Golf course was constructed in the late 70s. Prior to this the areas was used for various training purposes, including the development of a mock Viet Cong village used for training during the Vietnam conflict; and
- Quarrying activities commenced on the Glenfield site in the mid 60s, prior to this the area appears to have been used as farmland. Extraction was initially completed on the site using dredging to remove sand deposits, after which the excavations were continued with open cut excavations through bedrock materials.





4.0 REGULATORY AGENCY RECORDS SEARCH

4.1 Contaminated Land Management Act 1997

A search of the Environment Protection Authority (EPA) (now incorporated in the NSW Office of Environment and Heritage (OEH)) contaminated land public register indicates there are no records for the site or the nominated rail corridor (refer Appendix B) including no:

- orders made under Part 3 of the Contaminated Land Management Act 1997 (CLM Act)
- approved voluntary management proposals under the CLM Act that have not been fully carried out and where the approval of the Office of Environment and Heritage (OEH) has not been revoked
- site audit statements provided to OEH under section 53B of the CLM Act that relate to significantly contaminated land
- where practicable, copies of anything formerly required to be part of the public record
- actions taken by OEH under section 35 or 36 of the Environmentally Hazardous Chemicals Act 1985 (EHC Act)²

The contaminated land public register is not a listing of all contaminated sites in New South Wales, nor is it a list of all contaminated sites of which OEH has knowledge. The register specifically excludes the obligation under Section 60 of the CLM Act, which requires an owner or polluter to notify the OEH when they believe a site is contaminated. Notifications made under Section 60 of the CLM Act, are listed on the NSW OEH web page (http://www.environment.nsw.gov.au/clm/publiclist.htm), and these indicate there are no records of EPA regulatory involvement in the site or the nominated rail corridor. Copies of search results are presented as (Appendix B).

4.2 Protection of the Environment Operations Act 1997 (POEO)

A search of NSW OEH on-line database records indicated that there are no Environment Protection Licences (EPLs) for the bushland, rail corridor and golf course lands. The Glenfield Quarry and Waste Disposal Facility operate under EPL 4614, permitting the following scheduled activities;

- Crushing, grinding or separating;
- Extractive activities;
- Waste storage;
- Waste processing (non-thermal treatment); and
- Waste disposal by application to land.

Waste permitted to be disposed on the site includes general solid non-putrescible waste, waste tyres and asbestos waste.

A number of other current, pending, surrendered and no longer in force licences were identified about 1.5km to the north of the site within the general Moorebank industrial area. A copy of Glenfield Quarry and Waste Facility License and selected search results are provided in Appendix C.

4.3 Council Records

Land use planning certificates were issued by Liverpool City Council for the Site and the surrounding lands under Section 149 (2) & (5) of the Environmental Planning and Assessment Act 1979. The Certificates were dated 15 July 2011.

² Some notices under section 35 of the EHC Act were issued by the State Pollution Control Commission, which was the NSW Government agency responsible for managing contaminated sites before the EPA was established in 1992.



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Lot 3001 Moorebank (Army) Avenue (Lot 3001 DP 1125930)

This Lot is zoned "IN1 General Industrial SP2 Infrastructure - Defence" under Liverpool Local Environmental Plan 2008. The information indicated the following:

- Council has been provided with written information indicating the presence of contamination on the subject land which may restrict development and use of the land.
- The land is identified as containing environmentally significant land under division 2 General provisions of the Liverpool Local Environmental Plan 2008. The objectives are:
- (a) to maintain bushland, wetlands and wildlife corridors of high conservation value,
- (b) to identify areas of significance for revegetation to connect to bushland, wetlands and wildlife corridors.
- (c) to protect rare and threatened native flora and native fauna,
- (d) to ensure consideration of the significance of vegetation, the sensitivity of the land and the impact of development on the environment prior to the giving of any development consent.
- The land is not located in a Conservation Area.
- An item of Environmental Heritage is situated on the land.
- The land does not include or compose critical habitat.
- The land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of land slip, tidal inundation, or any other risk. However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulfate soils and bushfire.
- The land is subject to an ongoing maintenance order in a matter arising under the CLM Act 1997. However, the OEH public register does not have records for the site.
- The land is identified as flood prone and is within the high risk flood category.
- Lot 1 Moorebank (Army) Avenue (Lot 1 DP 825352)

This Lot is zoned "SP2 Infrastructure - Railway" under Liverpool Local Environmental Plan 2008. The information indicated the following:

- The land is not declared contaminated land.
- The land is identified as containing environmentally significant land under division 2 General provisions of the Liverpool Local Environmental Plan 2008.
- The land is not located in a Conservation Area.
- An item of Environmental Heritage is not situated on the land.
- The land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of land slip, tidal inundation, or any other risk. However, the land is affected by the Rural Fires Act 1997 that restricts the development of the land because of the likelihood of bushfire.
- Lot 51 Glenfield Road, Casula (Lot 51 DP 515696) and Lot 52 Glenfield Road, Casula (Lot 52 DP 517310)

These Lots are zoned "RE1 Public Recreation" under Liverpool Local Environmental Plan 2008. The information indicated the following:

- The land is not declared contaminated land.



- The land is identified as containing environmentally significant land under division 2 General provisions of the Liverpool Local Environmental Plan 2008.
- The land is not located in a Conservation Area.
- An item of Environmental Heritage is not situated on the land.
- The land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of land slip, tidal inundation, or any other risk. However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulfate soils and bushfire.
- The land is identified as flood prone and is within the high risk flood category.
- Lot 101 Glenfield Road, Casula (Lot 101 DP 1143827), Lot 102 Glenfield Road, Casula (Lot 102 DP 1143827), Lot 103 Glenfield Road, Casula (Lot 103 DP 1143827), Lot 104 Glenfield Road, Casula (Lot 104 DP 1143827) and Lot 5 Glenfield Road, Casula (Lot 5 DP 833516)

These Lots are zoned "RE1 Public Recreation" under Liverpool Local Environmental Plan 2008. The information indicated the following:

- The land is not declared contaminated land.
- The land is identified as containing environmentally significant land under division 2 General provisions of the Liverpool Local Environmental Plan 2008.
- The land is not located in a Conservation Area.
- An item of Environmental Heritage is not situated on the land.
- The land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of land slip, tidal inundation, or any other risk. However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulfate soils and bushfire.
- The land is identified as flood prone and is within the high risk flood category.
- Lot 4 Casula Road, Casula (Lot 4 DP 1130937)

This Lot is zoned "SP2 Infrastructure - Defence" under Liverpool Local Environmental Plan 2008. The information indicated the following:

- The land is not declared contaminated land.
- The land is identified as containing environmentally significant land under division 2 General provisions of the Liverpool Local Environmental Plan 2008.
- The land is not located in a Conservation Area.
- An item of Environmental Heritage is not situated on the land.
- The land is not affected by a policy adopted by Council that restricts the development of the land because of the likehood of land slip, tidal inundation, or any other risk. However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likehood of acid sulfate soils and bushfire.
- The land is identified as flood prone and is within the high risk flood category.

Copies of Section 149 Planning Certificates are presented in Appendix D.



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5.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

A number of environmental investigations have been completed over the broader Moorebank Defence Lands. These are listed below and relevant information from the reports is summarised in the following sections.

- Egis (2000) Preliminary Site Investigation at the Defence National Supply and Distribution Centre, Moorebank Defence Lands dated September 2000;
- HLA (2002) Soil and Groundwater Investigation, Precinct H (DNSDC), Moorebank Defence Lands dated November 2002;
- URS (2002) Investigation Review Report DNSDC, Moorebank Defence Lands dated 10 December 2002;
- Contamination Management (2002) Summary Site Audit Report, DNSDC Site, Moorebank dated December 2002;
- Brooks & Associates (2002) Heritage Assessment of the Moorebank Defence site at Moorebank dated October 2002;
- Douglas Partners (2009a) Summary Environmental Conditions, Proposed Intermodal Freight Terminal, DNSDC Site – Moorebank Avenue, Moorebank dated December 2009;
- Douglas Partners (2009b) Summary Geotechnical Site Conditions, Proposed Intermodal Freight Terminal, DNSDC Site – Moorebank Avenue, Moorebank dated December 2009; and
- Golder Associates (2010) Phase 1 Environmental Site Assessment, Stage 1A of Moorebank Intermodal Freight Terminal Development, dated December 2010.

5.1 Egis (2000) – Preliminary Site Investigation

Egis completed a Preliminary Site Investigation (PSI) of the entire Moorebank Defence Lands in 2000. This included a review of available information and historical records, as well as an inspection of the broader area.

Egis (2000) noted that a partially remediated disposal area existed on the southern extremities of the DNSDC site. This area was identified as an unauthorised burial ground, and works completed in 1994 identified the presence of batteries. Egis reported that not all of these were remediated at the time. The south-western portion of the golf course was reported to have been the location of the former mock Viet Cong training village, which was demolished following the Vietnam conflict with tunnel materials likely to still be buried in the area.

The bushland located south of the DNSDC site and west of the rail spur, was reported to have been used as grenade range from the 1950s to the 1980s. The Milsearch (2000) report, which was appended to the Egis report provided greater detail in regards to the former grenade range. Milsearch (2000) noted that the grenade range had operated south of the DNSDC site for a considerable period, with a permanent facility constructed in the 1950s. However, it was likely that the area was initially used during World War II. The position of the grenade range was predominately on the western side of the current rail spur, however, a portion of the former lineal range maybe intersected by the current rail spur. A 200m x 200m portion of the grenade range was reported to have been remediated in 1994, and was evident on the 1994 aerial photograph however a report on the remediation was not was sighted by Milsearch or Egis. The Milsearch (2000) report recommended additional investigations be completed, particularly to delineate the areas impacted by the projected grenades and by early hand thrown grenades including areas south-west of the previously remediated areas.

Both Egis and Milsearch reported significant quantities of demolition debris and soil stockpiles being identified in the bushland areas located east of the rail spur. Asbestos materials were not identified, however, were suspected as asbestos fragments identified in the eastern side of the current rail spur.





5.2 HLA (2002) Soil and Groundwater Investigation

HLA performed a soil and groundwater investigation of the DNSDC at the direction of URS Australia in 2002. This investigation included soil and groundwater sampling to assess potential contamination based on the results of PSI (Egis 2000) and included a series of approximately 170 investigation locations across the DNSDC site. The investigation did not extend into the proposed rail corridor lands, the closest investigations were completed in the southern portions of the DNSDC site in the vicinity of the underground fuel tanks.

5.3 Contamination Management (2002)

Dr Bill Ryall (EPA-accredited Auditor) of Contamination Management (CM) prepared a summary site audit report for the DNSDC site. This review was limited to the investigations completed on the DNSDC site, which included the ordnance investigation completed Milsearch (2002). The investigations did not extend into the proposed rail corridor.

5.4 Heritage Assessment of the Moorebank Defence site at Moorebank (2002)

The heritage assessment was prepared by Graham Brooks and Associates Pty. The heritage assessment did not consider the areas of the proposed rail corridor land.

5.5 Other reports

Douglas Partners prepared two reports for Stockland Developments in December 2009 regarding the DNSDC site, one summarising the environmental conditions (2009a) and the other summarising the geotechnical conditions (2009b). These reports summarised some of the work that had been performed to date (URS 2002, CM 2002 and ARUP 2009³), however were not related to the rail corridor lands.

5.6 Summary of Previous Environmental Reports

A number of environmental reports have been prepared for the DNSDC site, however only limited investigations have been completed on the rail corridor land. The Egis (2000) stage one investigation was the most relevant, and HLA/URS (2002) soil and groundwater investigation include an assessment of soil and groundwater conditions. However, the intrusive investigations completed by HLA/URS (2002) did not extend into the proposed rail corridor land areas.

The Egis (2000) investigation noted that unauthorised disposal areas existed on the southern extremities of DNSDC and these have not been completed remediated. Hence Egis reported that they pose a medium risk in regards to potential contamination. Egis also reported that the former grenade range posed a medium to high risk of potential contamination and unexploded ordnance.

6.0 CURRENT SITE ACTIVITIES AND OBSERVATIONS

A site visit to the DNSDC was undertaken by Golder personnel on 25 July 2011 (which included an interview with a Site Representative, refer to section 2.0). Access to the various lots that comprised the Glenfield Quarry and Waste Disposal Facility was completed on the 15 November 2011. The active rail corridor was viewed from accessible vantage points, including from within the DNSDC land, from within the Glenfield Quarry and Waste Disposal Facility and the Moorebank Road overpass, however, without entering the active rail corridor.

Photographs highlighting key features and observations made during the site visit are presented in Appendix E.

6.1 Above Ground and Underground Storage Tanks

Underground storage tanks (USTs) were not observed in the investigation area during the site visit.



Note ARUP 2009 provides geotechnical information only which has not been referenced in this report.

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PHASE 1 ESA SIMTA RAIL CORRIDOR LAND

There are five USTs on the south-western corner of the DNSDC site. Anecdotal information proved by the Site Representative during the site visit was that there was a spill of diesel 6-7 years ago at the re-fuelling area. The spill was localised to the area of the USTs and surface impacts were cleaned, however there is potential that the underlying soils were contaminated by the spill.

No ASTs or USTs were observed on the Glenfield Quarry and Landfill.

6.2 Asbestos-Containing Materials

Asbestos-containing materials (ACM) were observed during the site visit. Based on the anecdotal information provided by the Site Representative, most asbestos buildings were located in the vicinity of the main warehouse (located in the centre of the DNSDC site; however several fragments of potential ACM were identified on the surface in the areas immediate west of the current rail spur (refer to Plate 1, and Figure 1).



Plate 1: Potential ACM materials identified west of the existing rail spur

Anecdotal information provided by the Site Representative noted that several buildings containing asbestos materials were removed from the DNSDC site in the early 1990s.

The Glenfield Quarry and Landfill Facility is licensed to receive asbestos containing materials, however, current operations do not accept large quantities of asbestos waste at the facility. Historically, limited volumes of asbestos contaminated materials were received and were placed at the lower levels of the landfill. Small volumes of asbestos contaminated materials are accepted on occasion (not as normal practice) and are placed in the lower levels of the landfill.

Asbestos is common within rail environments, with sources including old brake liners, asbestos cement conduit, and asbestos linings or insulation within rolling stock and some electrical equipment. However, the East Hills Passenger line was constructed in approximately 1989, and the risk of asbestos contamination being present within the East Hills Passenger rail corridor is considered to be low.

No further information was provided to Golder regarding the presence or removal of ACMs on the rail corridor lands. This report should not be considered to be an asbestos audit.

6.3 Hazardous Material and Wastes Storage, Handling and Management

There is no bulk storage of industrial quantities of chemicals on the site, however there is a dangerous good store located on the adjacent DNSDC site.



No spills or stains were evident during the inspection and no chemical processes are conducted on the proposed rail corridor lands.

The Glenfield Quarry and Landfill Facility operates a landfill leachate treatment system, in which leachate is collected from each of the waste cells (via a herringbone drainage network and leachate risers) and directed to a leachate storage dam, currently located on the eastern side of the site. Leachate is allowed to evaporate, or recirculated onto the tip face via irrigation or re-injection. If required, leachate is disposed offsite via tankers to a licensed liquid waste treatment facility.

6.4 PCB-containing Materials and Equipment

The site representatives were not aware of any PCB-containing equipment, installations and/or joint putty; however a PCB survey has not been conducted.

6.5 Wastewater/Stormwater Discharges

We understand that the DNSDC site and golf course is connected to the municipal main water, sewage, and stormwater systems. However, no further information and documentation regarding water and wastewater/stormwater discharges were provided or available during the site visit.

On the southern portion of the DNSDC site an extensive stormwater system drains to a number of open channels which discharge runoff to the Georges River via a culvert under Moorebank Avenue. The southern portion of the DNSDC site was referred to by the site representative as the "swamp" as the drainage in the area was often poor. Runoff from the Golf course was through a series of dams and ponds which discharged to the north-west via the branch of Anzac Creek which intersected the bushland located south of the DNSDC site

Sanitary/domestic wastewater from the DNSDC and golf courses discharges to the municipal sewerage system.

Stormwater on the Glenfield Quarry and Landfill Facility is collected through an onsite drainage network and directed to a storage basin located on the northern end of the facility prior to discharge to the Georges River. Overflow discharge from the dam is monitored in accordance with the EPL. Leachate and stormwater are managed through separate systems to limit the potential for cross contamination. A levee, with minimum height of 12.4m AHD, has been constructed along the eastern boundary of the Glenfield quarry site to prevent surface water from the landfill discharging directly into the Georges River. The facility also has a network of groundwater monitoring points which are routinely monitored in accordance with the EPL.

Sanitary / domestic wastewater from the Glenfield quarry and landfilling operations were not reviewed as the administration offices and associated facilities were located on parcels of land outside the investigation area.

6.6 Radon

Radon is not expected to occur at the site based on the geology (sandstone) of the area and is generally not considered to be an issue in Australia.

6.7 Unexploded Ordnance (UXO)

Based on history of the site, a grenade range operated in the bushland areas to the south of the DNSDC site from as early as the 1940s to the 1970s. Anecdotal information provided by the site representative noted that grenade pins were found in the area south of the DNSDC, which is consistent with the history of the site. As such, there is the potential that UXO is present in the bushland areas located immediately south of the DNSDC Site.

6.8 Landfilling

It was observed during the site visit that Lot 1 DP 825352 (owned by Railcorp) had been filled to 2-2.5m above the surrounding ground level. Historic information also noted that landfilling may have occurred in the areas immediately south of the DNSDC site. Illegally dumped building waste materials (refer to Plate 2), and some ash and slag materials were also noted within the bush land area immediately south of the DNSDC





site and north of the Rail Corp property (Lot 1 DP 825352). This fill could potentially contain asbestos materials.



Plate 2: Illegally dumped building materials identified north of Lot 1 DP825352

The Glenfield Quarry and Landfill Facility currently operate under an EPL, and there is extensive land filling in engineered waste containment cells occurring at the site. Each waste cell is lined with HDPE, and leachate and landfill gas collection systems are installed prior to and throughout the filling process. The waste materials are placed in accordance with the Filling Plan, with a proposed progression of filling from the south to the north. Prior to placement, the waste materials are shredded and the materials are placed in layers approximately 2m thick. Each layer includes a daily cover of soil (minimum 15 cm) prior to ceasing daily operations, and an intermediate soil cover of approximately 30cm thick is placed over areas of waste which are likely to be exposed for greater than 90 days. At completion the waste cells are capped with an engineered cover approximately 2m thick.

Current operations do not receive large volumes of asbestos waste materials, however, on occasion asbestos waste materials are accepted at the facility. These are placed in the lower levels of the waste cells. The landfill is surrounded by a network of groundwater and landfill gas monitoring points. Routine monitoring is completed in accordance with the ELP, which includes annual groundwater monitoring and monthly landfill gas monitoring.

6.9 Surrounding Land Use

The site is located within the Moorebank industrial district and Defence National Supply and Distribution Centre (DNSDC). Nearby properties to the east and west of the Defence lands are predominantly residential in nature. The East Hills passenger railway is immediately south of the proposed rail corridor land areas, and beyond this is the northern extremity of the Holsworthy Military Reserve. As such, the land remains largely undeveloped bushland with a network of public and private roads.

The Liverpool-Holsworthy railway line runs through a largely vacant area of land adjacent to the western side of the Georges River and the area of Crown Land. A decommissioned diesel fuelled power station (now the Powerhouse Regional Arts Centre) is located north of the Crown land with a golf course located further to the north. To the south of the Crown land is a former quarry which is now a waste transfer station. To the south of the waste transfer station and further to the west of the railway line across the Hume Highway, the land use is dominated by several relatively new residential subdivisions. The area to the north of the DNSDC,





across Anzac Road, is additional Defence land in the form of the Yulong Playing Fields together with Moorebank Village. To the north of the School of Military Engineering is the Amiens site and the location of ABB Power Transmissions. In addition, a Rifle Range Park (a former rife range) is located in the southwestern corner of the M5 Motorway and the Georges River.



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PHASE 1 ESA SIMTA RAIL CORRIDOR LAND

7.0 SUMMARY OF POTENTIAL CONTAMINATION

Based on the site history and visit to the site, there is the potential for subsurface contamination as a result of prior use of the site.

The areas of environmental interest are marked on Figure 2 and include:

- Area 1 the area immediately south of the proposed SIMTA site, where historic information has noted that partially remediated areas of unauthorised dumping may have occurred;
- Area 2 the bushland area south of the proposed SIMTA site development, where historic information has noted that potential UXO associated with the former grenade ranges may exist. This areas also has evidence of illegal dumping, with historic reports and the site inspection noting the presence of building rubble and other waste materials;
- Area 3 Lot 1 DP825352 (owned by Railcorp) has been subjected to extensive filling with the area levelled approximately 2-2.5m higher than the surrounding areas;
- Area 4 the south-western portion of the golf course, where historic information has noted the former training facility, the mock Viet Cong village, was demolished with potential tunnel materials buried in the area:
- Area 5 the Glenfield Quarry and Waste Disposal Facility, where extractive and waste disposal is being undertaken in accordance with a current EPL; and
- All areas of the site potential unidentified buried waste as well as the use of pesticides and herbicides for pest and/or weed control.

7.1 Potential Contaminants of Concern

The potential contaminants of concern are commonly associated with the areas of environmental interest identified above:

- Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc).
- Polycyclic aromatic hydrocarbons (PAH).
- Hydrocarbons including C₆-C₃₆ total petroleum hydrocarbons (TPH) and benzene, toluene, ethyl benzene and xylene (BTEX).
- Semivolatile organic compounds (SVOCs) and volatile organic compounds (VOCs).
- Phenolic compounds.
- Asbestos.
- Pesticides such as organochlorine and organophosphate pesticides (OCPs and OPPs).
- Unexploded ordnance (UXO).
- Landfill Gas (methane, carbon dioxide and hydrogen sulphide).



8.0 CONCLUSIONS

Golder has completed a Phase 1 ESA of the proposed rail corridor lands associated with the proposed SIMTA site at Moorebank Avenue, Moorebank, NSW. The objective of the Phase 1 ESA was to address the Project's Director-Generals Requirement (DGRs) that an assessment of potential ground contamination issues be completed for the project including the rail link connection to the Main Southern Railway.

The Phase 1 ESA was prepared in general accordance with the proposal ref. P17623116 dated 22 June 2011 and included a review of selected publicly available information such as: aerial photos and land titles; regulatory information; the geological and topographical maps. The scope also included a review the following previous reports: Egis (2000), HLA (2002), URS (2002), CM (2002) and Douglass Partners (2009a and 2009b) and a site inspection of the DNSDC site with site personnel on 25 July 2011 and a site inspection of the Glenfield Quarry and Waste Disposal Facility on 15 November 2011.

On the basis of the information reviewed Golder conclude that areas of environmental interest exist where soil and to a lesser extent groundwater contamination may have occurred. The investigation undertaken by Golder has not identified significant environmental issues which would preclude the currently proposed development of the site as a rail corridor.

9.0 RECOMMENDATIONS

Further investigation work is recommended to determine risk that contamination on these areas poses to the proposed development and to inform the appropriate management regime to be implemented during the construction of the rail corridor.

- Undertake a Phase 2 intrusive environmental site assessment of the proposed rail corridor, with an objective to assess the risk posed to the detailed design and construction of the rail link by the areas of environmental concern identified within this report. The Phase 2 intrusive investigation would include a program of soil and groundwater sampling completed in accordance with the guidelines made or approved by the EPA under s 105 of the Contaminated Land Management Act 1997;
- Develop and implement a contamination management plan as part of the project construction environmental management plan for managing contaminated materials either expected or unexpectedly encountered during the construction of the rail corridor. The contamination management plan would include detailed procedures on:
 - Handling, stockpiling and assessing potentially contaminated materials encountered during the development works;
 - Assessment, classification and disposal of waste in accordance with relevant legislation;
 - Landfill gas management during the excavation, handling, and stockpiling of waste materials, if excavation is required during the development, in the area of the Glenfield Quarry and Landfill; and
 - A contingencies plan for unexpected contaminated materials, such as materials that is odorous, stained or containing anthropogenic materials that may be encountered during site works.



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PHASE 1 ESA SIMTA RAIL CORRIDOR LAND

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Report Signature Page

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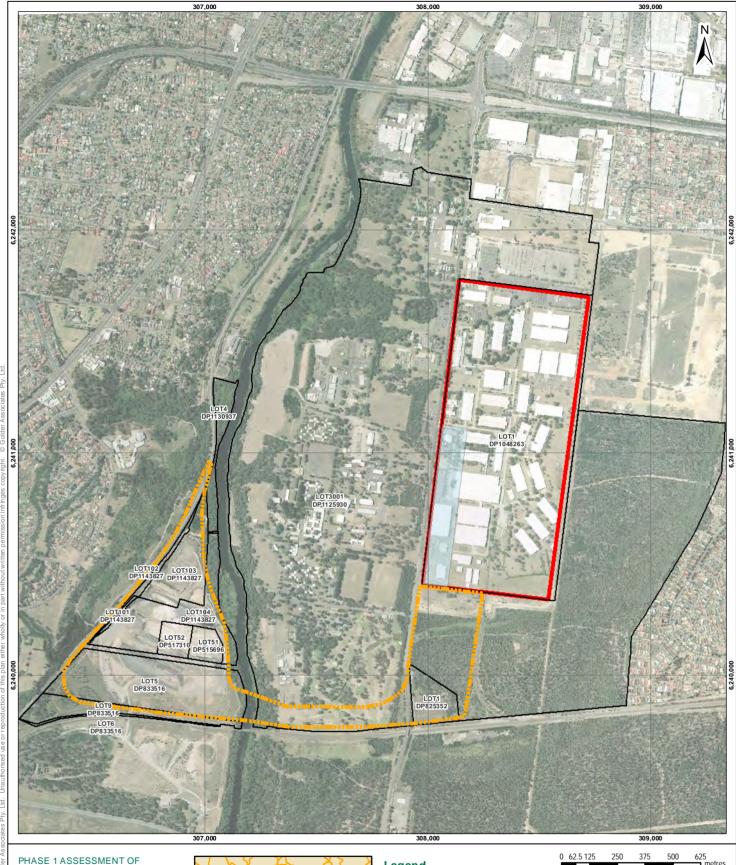
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RAIL CORRIDOR ALLOTMENT

STOCKLAND DEVELOPMENTS PTY LTD

SITE LAYOUT

COPYRIGHT Google Earth 2009



Legend Rail Link

Area 1a

Cadastre

DNSDC Bounday

SCALE (at A4) 1:17,000

DATUM GDA 94, PROJECTION MGA Zone 56

PROJECT: 107623148

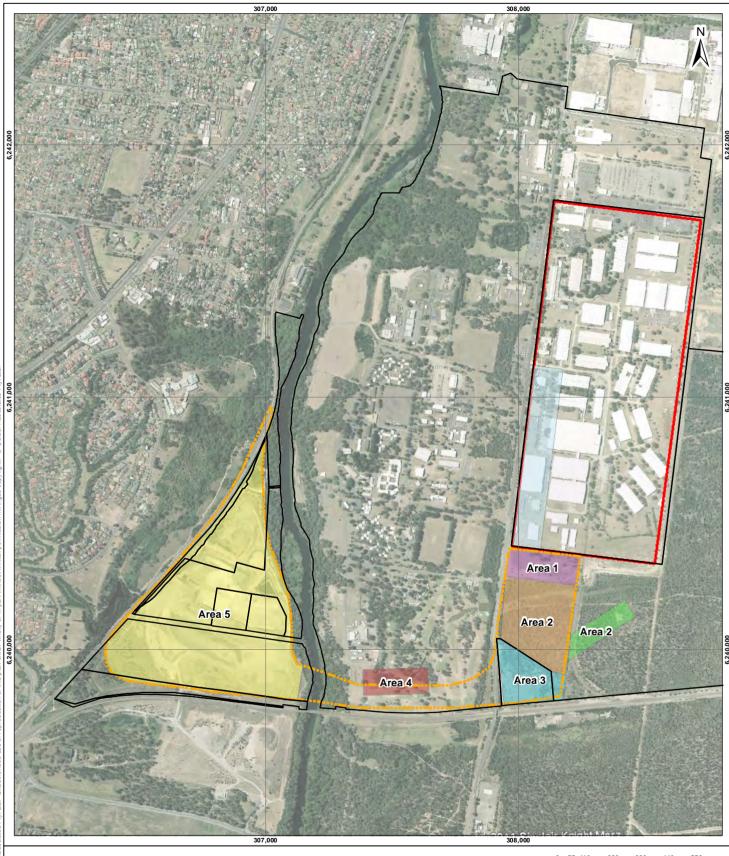
DATE: 26/08/2011

DRAWN: AJW

CHECKED: GS

FIGURE 1





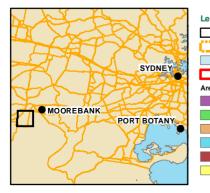
PHASE 1 ASSESSMENT OF RAIL CORRIDOR ALLOTMENT

STOCKLAND DEVELOPMENTS PTY LTD

AREAS OF ENVIRONMENTAL INTEREST

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Legend Cadastre Rail Link DNSDC Bounday

Areas Of Environmental Interest Area 1 - Unauthorised Dumping Area Area 2 - Former Grenade Range

Area 2 - Illegal Dumping Identified

Area 4 - Former Mock Viet Cong Village Area 5 - Glenfield Quarry & Waste Disposal Facility

SC ALE (at A4) 1:15,000 PROJECT: 107623148

DATE: 26/08/2011

DRAWN: AJW

CHECKED: GS

FIGURE 2







APPENDIX A

Site Ownership Summary Tables and Certificates of Title





Table A-1: Historical Ownership Summary Lot 1 in DP 1048263 (Portion of the Stage 1A Site)

Year of Title	Volume and Folio	Registered Owner
26/02/2003 - Current	Lot 1 DP 1048263	Trust Company Limited
16/05/2002 - 26/02/2003	Lot 56 DP 1040763	Trust Company Limited
26/04/1995 - 6/01/2003	Lot 1403 DP 848565	Trust Company Limited
20/12/1993 - 26/04/1995	Lot 2001 DP 835590	Trust Company Limited
09/12/1993 - 03/03/2000	Lot 2 DP 825745	Trust Company Limited
17/07/1916 - 08/12/1993	Vol 1006 Fol 137	The Commonwealth of Australia
13/05/1914 - 08/12/1993	Vol 1196 Fol 99	The Commonwealth of Australia
24/06/1925 - 08/12/1993	Vol 3743 Fol 212	The Commonwealth of Australia
20/05/1924 - 08/12/1993	Vol 2945 Fol 35	The Commonwealth of Australia
29/08/1889 - 08/12/1993	Vol 937 Fol 233	The Commonwealth of Australia

Table A-2: Historical Ownership Lot 3001 in DP 1125930 (School of Military Engineering Golf Course and bushland south of the Stage 1A Site)

Year of Title	Volume and Folio	Registered Owner
13/05/2008 - Current	Lot 3001 DP 1125930	The Commonwealth of Australia
16/06/2006 - 13/05/2008	Lot 500 DP 1075886	The Commonwealth of Australia
23/02/2002 - 16/06/2006	Lot 2001 DP 1064082	The Commonwealth of Australia
19/03/2003 - 23/02/2004	Lot 1003 DP 1050177	The Commonwealth of Australia
26/02/2003 - 13/03/2003	Lot 2 DP 1048263	The Commonwealth of Australia
16/05/2002 - 26/02/2003	Lot 55 DP 1040763	The Commonwealth of Australia
09/12/1993 - 06/01/2003	Lot 2 DP 832269	The Commonwealth of Australia
26/02/2003 - 13/03/2003	Lot 2 DP 1048263	The Commonwealth of Australia
26/02/2003 - 13/03/2003	Lot 2 DP 1048263	The Commonwealth of Australia
16/05/2002 - 26/02/2003	Lot 56 DP 1040763	The Commonwealth of Australia
26/04/1995 - 06/01/2003	Lot 2001 DP 835590	The Commonwealth of Australia

Table A-3: Historical Ownership Lot 1 in DP 825352 (irregular shaped block of land adjacent to the east hills rail line)





Year of Title	Volume and Folio	Registered Owner
09/12/1993 - Current	Lot 1 DP 825352	Rail Corporation NSW
19/10/1925 - 09/12/1993	Vol 3788 Fol 87	The Commonwealth of Australia

Table A-4: Historical Ownership Lot 5 in DP 833516 (portion of the Glenfield Quarry and Waste Disposal Facility)

Year of Title	Volume and Folio	Registered Owner
29/09/1993 - 20/12/2010	Lot 5 DP 833516	Helen Louise Kennett, Figela Pty Ltd and JC and FW Kennett Pty Ltd
29/09/1993 - 20/12/2010	Vol 8646 Fol 169	Helen Louise Kennett
29/09/1993 - 20/12/2010	Vol 8646 Fol 170	Figela Pty Ltd
29/09/1993 - 20/12/2010	Vol 8646 Fol 171	JC and FW Kennett Pty Ltd (commercial and industrial builder since 1914)
26/06/1964 - 29/09/1993	Vol 9738 Fol 13A	Helen Louise Kennett
26/06/1964 - 29/09/1993	Vol 9738 Fol 13B	Figela Pty Ltd
03/03/1966 - 29/09/1993	Vol 9738 Fol 13C	JC and FW Kennett Pty Ltd
05/05/1952 - 03/03/1964	Vol 6486 Fol 47	Clifford James Kennett, Farmer
28/06/1946 - 05/05/1952	Vol 5585 Fol 160	Clifford James Kennett, Farmer

Table A-5: Historical Ownership Lot 51 in DP 515696 (portion of the Glenfield Quarry and Waste Disposal Facility)

Year of Title	Volume and Folio	Registered Owner
09/12/1993 - Current	Lot 51 DP 515696	JC and FW Kennett Pty Ltd
22/05/1969 - 09/12/1993	Vol 10102 Fol 134	JC and FW Kennett Pty Ltd
31/08/1965 - 22/05/1969	Vol 10102 Fol 134	Rural Homes (Glenfield) Co-operative Ltd
03/09/1952 - 31/08/1965	Vol 6555 Fol 231	Rural Homes (Glenfield) Co-operative Ltd
16/06/1948 - 03/09/1952	Vol 5838 Fol 227	James Freeland Leacock, Retired Land Valuer
25/09/1937 - 16/06/1948	Vol 4649 Fol 84	James Freeland Leacock, Retired Land Valuer
18/02/1946 - 16/06/1948	Vol 5555 Fol 64	Margaret Ross McClure





Table A-6: Historical Ownership Lot 52 in DP 517310 (portion of the Glenfield Quarry and Waste Disposal Facility)

Year of Title	Volume and Folio	Registered Owner
28/03/1988 - Current	Lot 52 DP 517310	JC and FW Kennett Pty Ltd
25/01/1966 – 28/03/1988	Vol 10215 Fol 216	JC and FW Kennett Pty Ltd
03/09/1952 – 25/01/1966	Vol 6555 Fol 231	Rural Homes (Glenfield) Co-operative Ltd
16/06/1948 - 03/09/1952	Vol 5838 Fol 227	James Freeland Leacock, Retired Land Valuer
25/09/1937 - 16/06/1948	Vol 4649 Fol 84	James Freeland Leacock, Retired Land Valuer
18/02/1946 - 16/06/1948	Vol 5555 Fol 64	Margaret Ross McClure

Table A-7: Historical Ownership Lot 104 in DP 1143827 (portion of the Glenfield Quarry and Waste Disposal Facility)

Year of Title	Volume and Folio	Registered Owner
06/11/2009 - Current	Lot 104 DP 1143827	JC and FW Kennett Pty Ltd
05/06/1987- 06/11/2009	Lot 50 DP 229438	JC and FW Kennett Pty Ltd
06/11/2009 - 29/11/1968	Vol 10373 Fol 156	JC and FW Kennett Pty Ltd
12/08/1966 -29/11/1968	Vol 10373 Fol 156	Rural Homes (Glenfield) Co-operative Ltd
03/09/1952 - 31/08/1965	Vol 6555 Fol 231	Rural Homes (Glenfield) Co-operative Ltd
16/06/1948 - 03/09/1952	Vol 5838 Fol 227	James Freeland Leacock, Retired Land Valuer
25/09/1937 - 16/06/1948	Vol 4649 Fol 84	James Freeland Leacock, Retired Land Valuer
18/02/1946 - 16/06/1948	Vol 5555 Fol 64	Margaret Ross McClure

Table A-8: Historical Ownership Lot 103 in DP 1143827 (portion of the Glenfield Quarry and Waste Disposal Facility)

Year of Title	Volume and Folio	Registered Owner
06/11/2009 - Current	Lot 103 DP 1143827	Figela Pty Ltd
05/06/1987- 06/11/2009	Lot 22 DP 230435	Figela Pty Ltd
07/06/1979 - 05/06/1987	Vol 10470 Fol 184	Stantavus Pty Ltd
04/01/1967 - 07/06/1979	Vol 10470 Fol 184	Robert Alexander Paul of Centennial Park, Company Executive





Year of Title	Volume and Folio	Registered Owner	
20/03/1947 - 04/01/1967	Vol 5655 Fol 2	Eugene Erskine Claud White of Casula, Orchardist	

Table A-9: Historical Ownership Lot 4 in DP 1130937 (land north of the Glenfield Quarry and Waste Disposal Facility)

Year of Title	Volume and Folio	Registered Owner		
17/10/2008 - Current	Lot 4 DP 1130937	The Commonwealth of Australia		
05/06/1987- 17/10/2008	Lot 21 DP 230435	The Commonwealth of Australia		
04/01/1967 - 05/06/1987	Vol 10470 Fol 183	The Commonwealth of Australia		
20/03/1947 - 04/01/1967	Vol 5655 Fol 2	Eugene Erskine Claud White of Casula, Orchardist		
30/06/1965 - 04/01/1967	Vol 6049 Fol 69	The Commonwealth of Australia		
02/11/1949 - 30/06/1965	Vol 6049 Fol 69	Brian Norman de Meyrick, Grazier		

Table A-10: Historical Ownership Lot 6 in DP 833516 (portion of the east hill passenger rail line)

Year of Title	Volume and Folio	Registered Owner
29/09/1993 - Current	Lot 6 DP 833516	Rail Corporation NSW
10/01/1980 - 29/09/1993	Vol 14018 Fol 92	Rail Corporation NSW
30/04/1952 - 10/01/1980	Vol 6484 Fol 159	JC and FW Kennett Pty Ltd
28/06/1946 - 30/04/1952	Vol 5585 Fol 160	Clifford James Kennett, Farmer
21/01/1930 - 28/06/1946	Vol 4371 Fol 49	Clifford James Kennett, Farmer

Table A-11: Historical Ownership Lot 101 in DP 1143827 (portion of the Southern Freight Rail Corridor)

Year of Title	Volume and Folio	Registered Owner
06/11/1993 - Current	Lot 101 DP 1143827	Rail Corporation NSW
05/06/1987 - 06/11/1993	Lot 50 DP 229438	Rail Corporation NSW
12/08/1966 - 05/06/1987	Vol 10373 Fol 156	JC and FW Kennett Pty Ltd
03/09/1952 - 31/08/1965	Vol 6555 Fol 231	Rural Homes (Glenfield) Co-operative Ltd







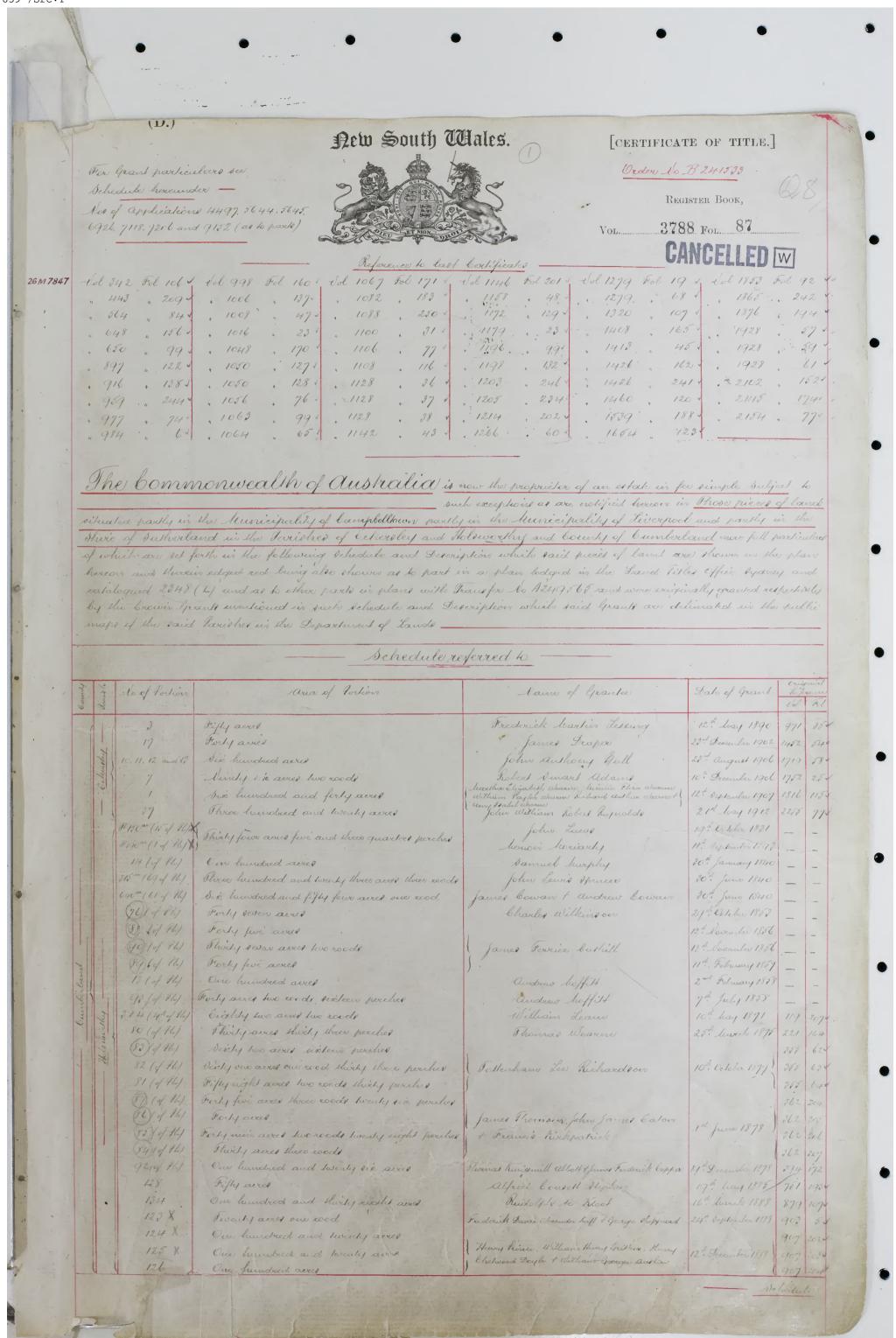
Year of Title	Volume and Folio	Registered Owner	
16/06/1948 - 03/09/1952	Vol 5838 Fol 227	James Freeland Leacock, Retired Land Valuer	
25/09/1937 - 16/06/1948	Vol 4649 Fol 84	James Freeland Leacock, Retired Land Valuer	
18/02/1946 - 16/06/1948	Vol 5555 Fol 64	Margaret Ross McClure	

Table A-12: Historical Ownership Lot 102 in DP 1143827 (portion of the Southern Freight Rail Corridor)

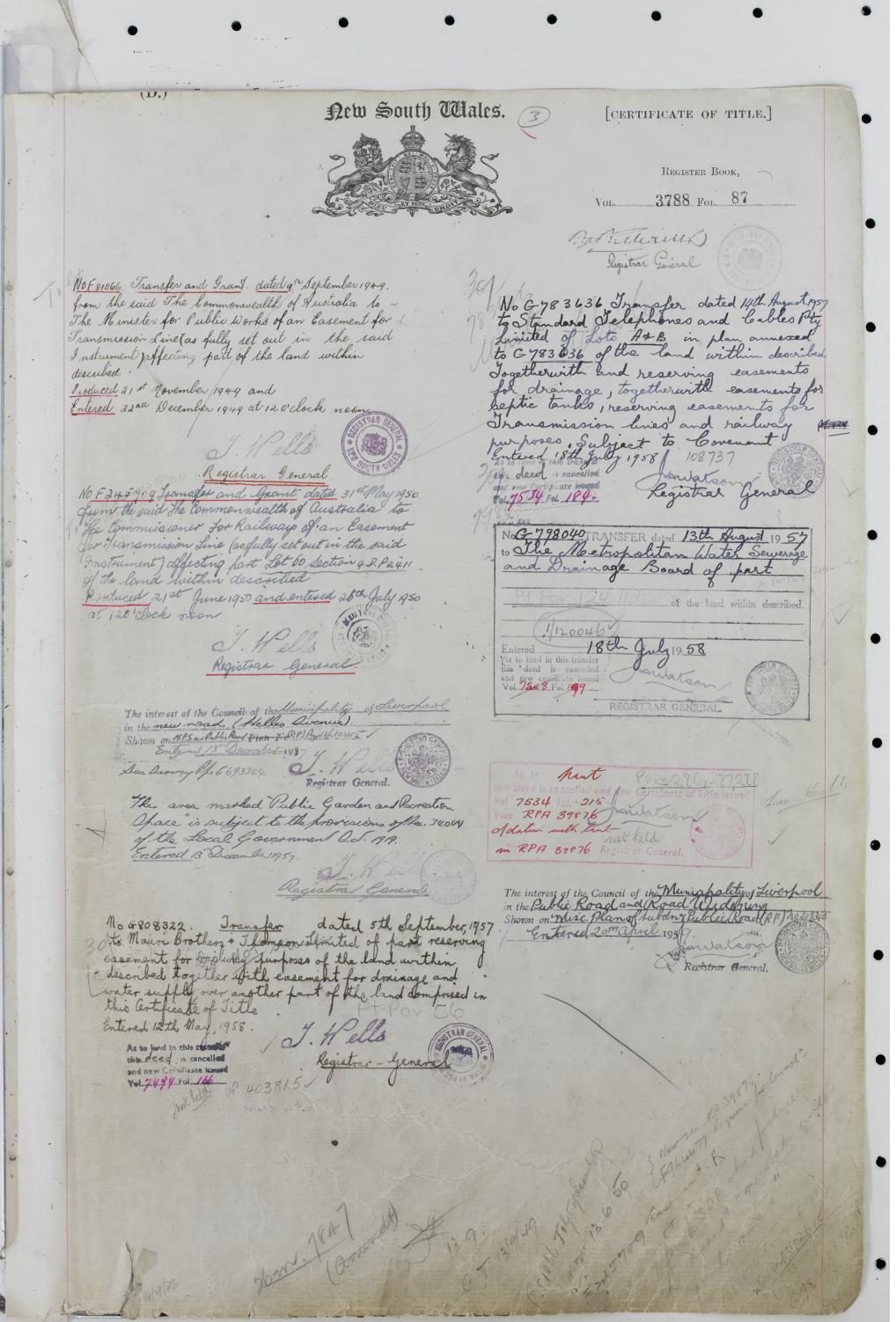
Year of Title	Volume and Folio	Registered Owner		
06/11/1993 - Current	Lot 102 DP 1143827	Rail Corporation NSW		
05/06/1987 - 06/11/1993	Lot 22 DP 230435	Rail Corporation NSW		
07/06/1979 - 05/06/1987	Vol 10470 Fol 184	Stantavus Pty Ltd		
04/01/1967 - 07/06/1979	Vol 10470 Fol 184	Robert Alexander Paul of Centennial Park, Company Executive		
20/03/1947 - 04/01/1967	Vol 5655 Fol 2	Eugene Erskine Claud White of Casula, Orchardist		

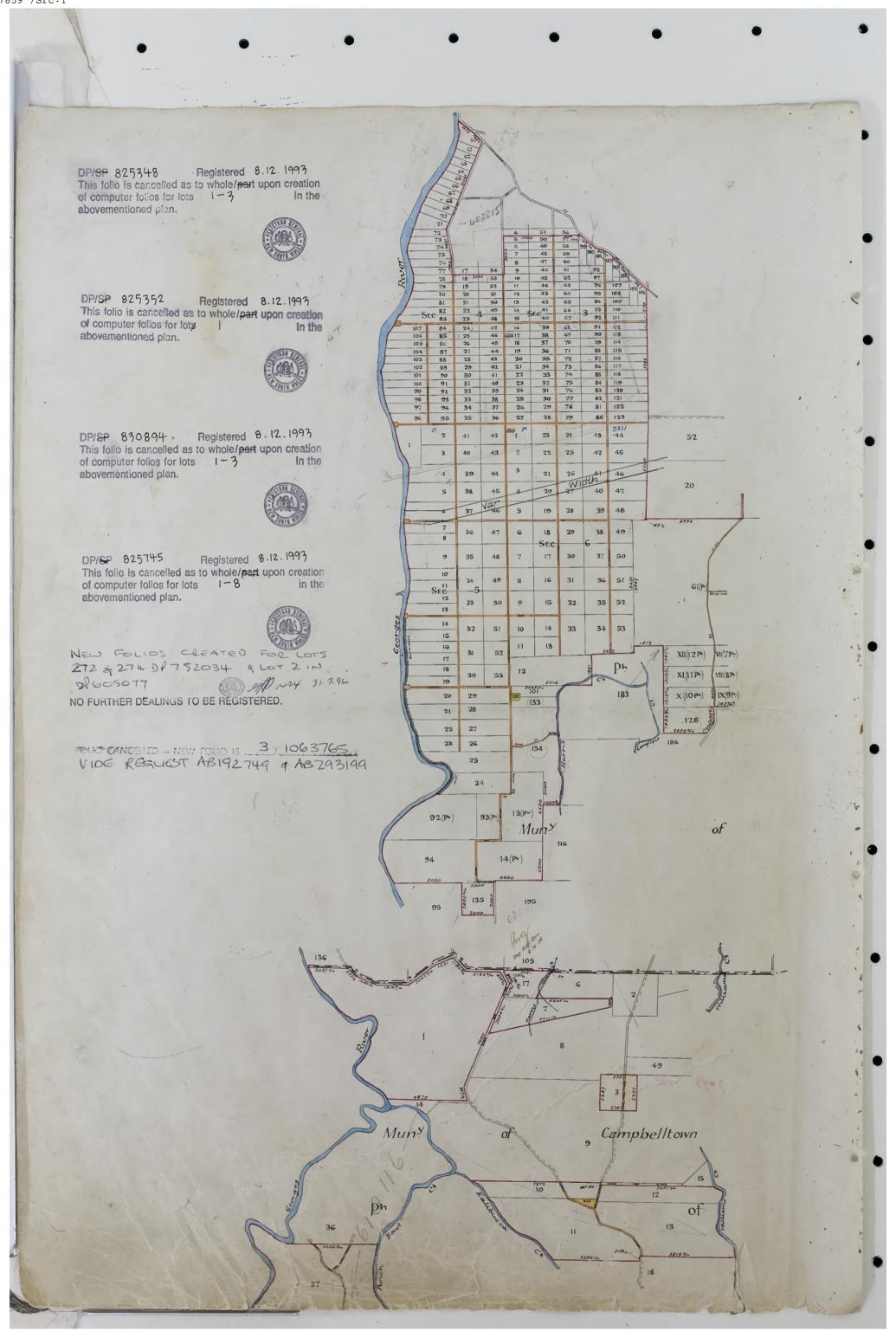
 $j: lonv 2010 107623148_stockland_moorebank_env~ass lorrespondence~out lyrail~allot ment~phase~1 lappendix~a lappendix~a - 107623148-003-r-rev2.docx~allot lappendix~a lappen$

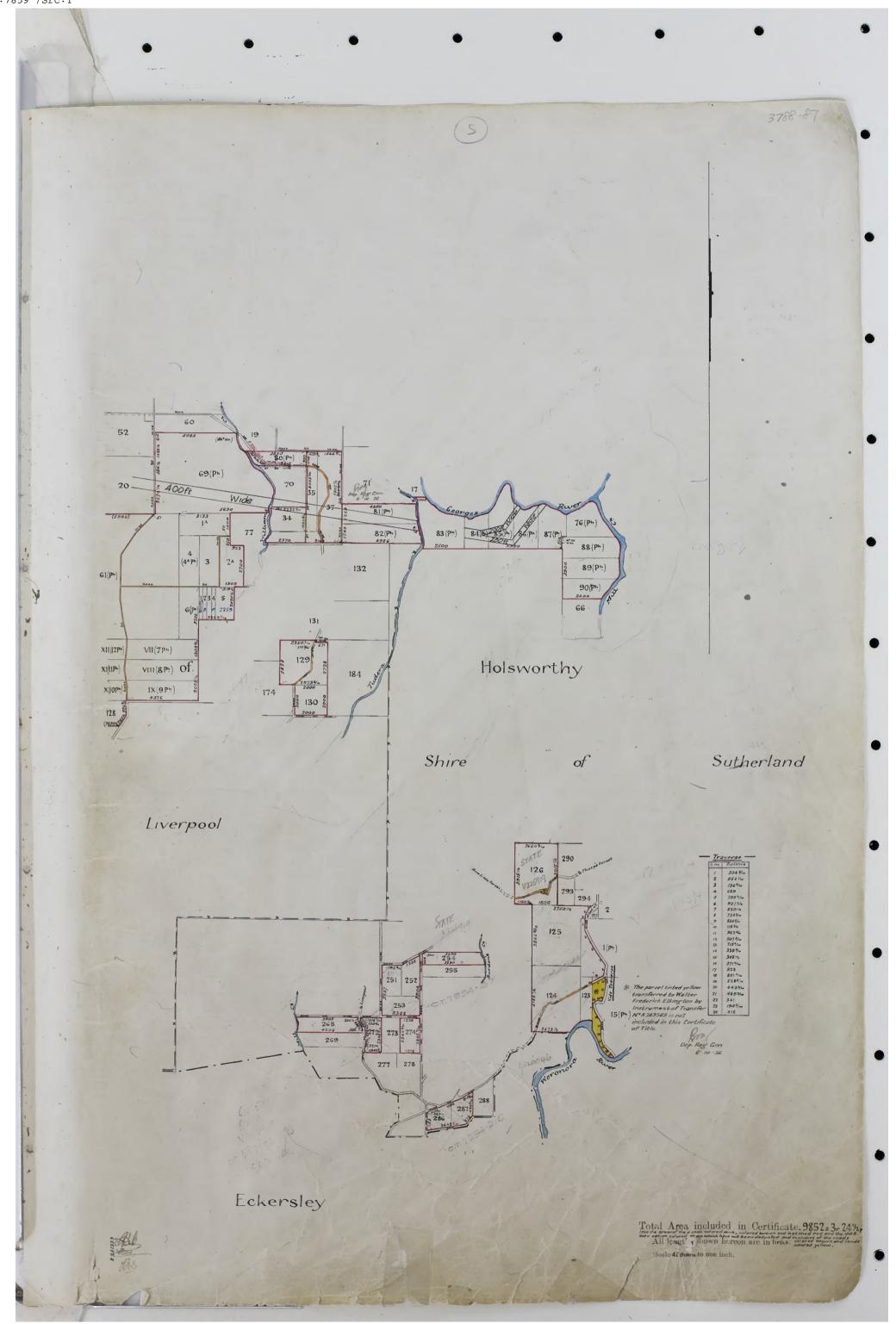


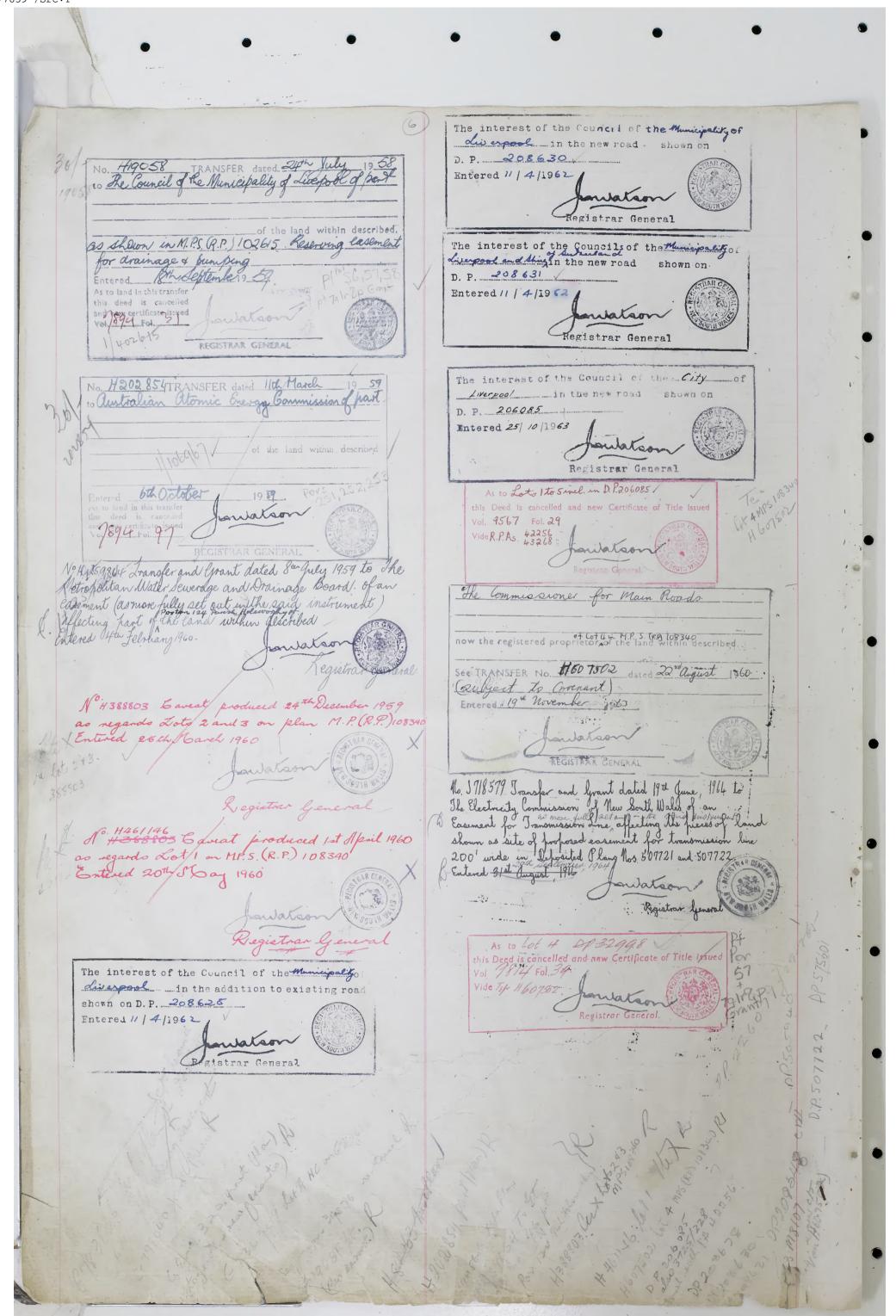


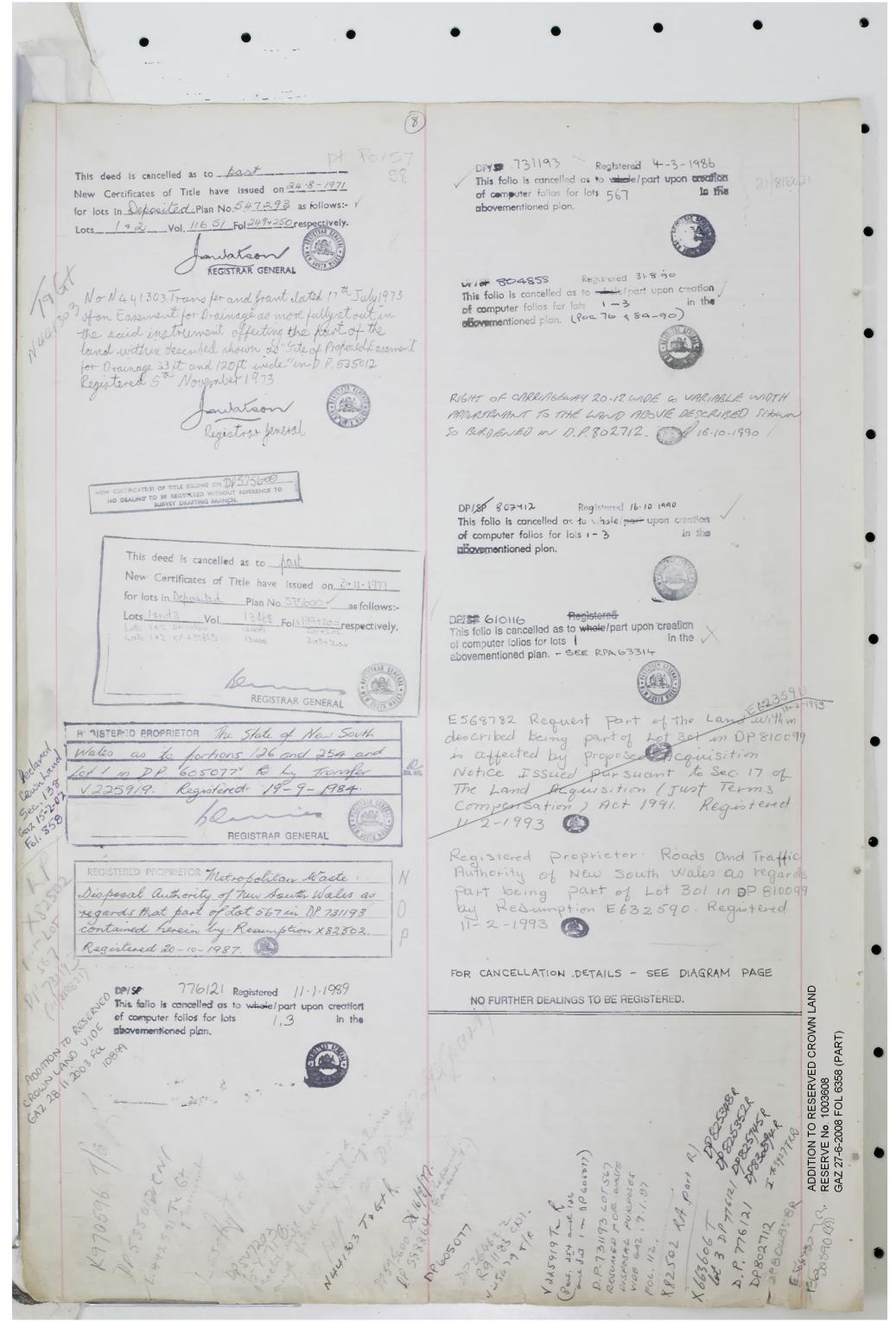
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		1	1	And the second			Annual Control of the
	- Schedule referred to (continued)					7	
	hound	Smith	to of Portion	: Area of Portion .	· Name of Grants.	Date of Grant Reference Vol Fol	· · · · · · · · · · · · · · · · · · ·
	-		101	Twenty acres two roods	Leonard Weirler Leonard Weirler	22" Secular 1888 911 \$2 22" Secular 1888 911 85	
1			135 1A	Forty down acres three roads	- hax schulye	16 th August 1889 941 26 V	
			X (10 of Ph) XI (11 of Ph) and XII (12 of Ph)	Seventy eight acres ino roods thirty perches	Edmund Harlewood Pheppard	20t rapril 1891 1013 40	
~	- you		34 35 2A	Thirty two acres three roads Forky three acres three roads	hajor Lackey hajor Lackey David Edward I Weill	16th June 1891 1017 111 16th June 1891 1017 112	
	whoulan	pwoulle	129	Eighty acres	The Union Mark of australia Limited		
	bun	140	272	One hundred and fifty acres Twenty five acres three roads shirty perches	Howy Edgar Weavers	3rd December 1903 1491 1844	
				Eighty one acres two roads twenty two and there; "Twenty ruin sever"	Baxah Catherine Haviel Legg	14th Doscuber 1907 1885 99 14th Doscuber 1907 1885 99 25th January 1908 1888 40	
			6	Forty since two roads One hundred and swenty three since two roads	antonio Relatto John Haerse	22 de June 1908 1889 215 V	•
			286 + 287	Forty four acres three roads	James Robert hannall Olbert Edward Walton	22 whereh 1910 2049 68.	
		8	37	Twenty wine acres one rood one hundred and six acres	James George Wartin	4" few 1912 2260 202 3	
			G of reals	Danavilal -			
	9	hose	precies of land	d situated in the hunicipality of diverpool	Parish of Holsworthy and Country of.	beenlerband evidaining.	
	-4.	in al	es Land Tilles	Office defluery to 2250 and hate 5 to 50 inc	weeker or thereabouts being lots 1 to 5 wie	busines in a plan defe sind	
	-0	note	her place defros	ited in the said Office No 2411 and being par	whisive of Rection 5 and Little 53 un	relusive of section 6 in	
another plan deposited in the said Office No 2411 and being parts of Seven traded and lifty acres (Portion of Parish) originally agreed to Thomas house by beown Grant dated the eighteuth day of Disconter our thousand eight hundred and five parts of Portion 38 of Parish Two hundred acres (Portion 39, of Parish Our hundred and sixty direct (Portion 40.							
	100	inco.	very wear / s	noticed and firsty sever (Partion 41 of Parish) O. Portion 40 of Parish) and One hundred and	weeks acres (Forter 44 of Parial 1 na	it als ille	
Crown Grants each dated the first day of farmous one thousand eight hundred and her, parts of Three hundred and eights five acces (Tortwin 46 of Township originally granted to Thomas hoosed by browin Grant dated the fifteenth day of Julijon thousand eight hundred and the fifteenth day of Julijon thousand eight by browin Grant dated the fifteenth day of Julijon thousand							Ć.
	-4	ugh	hundred an	of uniteer, frank of Eighty acres (Portion of	I by Expury Grant dated the fiftee it	day of Julyon thousand	•
	dated the first day of November our thousand eight hundred and twenty two part of Two hundred ares (Portion 4th of Parish) originally granted to William Their by brown Grant dated the first day of November one thousand eight hundred and twenty two, parts of Our thousand three hundred ares (Portion 110 of Parish originally granted to Thomas here by						
		ucce	1 (Portwin 59	of Parish originally skanted to george lin	get bundred and besenty evight, part of	six hundred and forly	
,		- eth ca	a down engers me	undered such much fearer the whole of far here	JA valorinally and I I I I I	1111	
	- Volume 909 Folio 199 and parts of Seven acres twenty few penches part of seven acres our rood eight perches organisty property for aurestics for seven acres our rood eight perches organisty granted for						
4	Execusively of the roads colored brown and of Portwir 100 (Parigh of Holeworther) and the roads colored brown and of Portwir 100 (Parigh of Holeworther)						1 1
	Exclusively also of the roads (within Lot 17) rection 3 and Lot I rection 6 in Jethor year Man 2011) - front have						•
	and forty neves (Portion 59 of Parish/(within Lets 14 to 25 unlisting of section to the grant of sin hundred of						Dep Red Gen
1	area of Four thousand three lundred and fifty four ares thirty four perely						
	Sortwis Nos. 69 (of Parish) and 80 (of Parish) Parish of Holoworthy above mentioned are affected by the public road shown by pink - tolor in the plan hereon the land exemprised in such road warrely about Three acres one road is excepted from this bertificate but not as to increase						
	In witness whereof I have become signed my want affixed my real this nincteenth day of Optober 1925						
B	Registran General						
	Exceptions in the Grants of Portions 2024, 268, 272, 286 and Paeres 24 meches and Tacres trood 8 months of Helamorth.						8
	,	is 7	being below a	worthy of all that portion of the said land lying of depth of 500 feet from the swiface thereof	of mirerals to	4. 125 and 126 Parish of	
	100	39 ,	arish of Exh	rolly and in the Greens of Portion 12 A	Holoworthes of all gold and mines of of	wir 14 of Farish 150 James	
		(40)	facisty) (10 y	Porish XI(1) of Pavish XII(12 of Parish) 14. 35 n	Porton 18 of Parish/640 acres (Porton 1994)	1 xis by 640 acces (Portion blof Vacisty).	
				129,120, 132. 104. 136, 201. 2022 50, 204, 268,	On William Guine		19
19. E. S.	100		No. of the last of	The state of the s	degretion General	The second second second	et

















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Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/825352

 SEARCH DATE
 TIME
 EDITION NO
 DATE

 ---- ---- ---- 5/4/2005

 7/7/2011
 10:47 AM
 3
 5/4/2005

LAND

_ _ _ _

LOT 1 IN DEPOSITED PLAN 825352

AT HOLSWORTHY

LOCAL GOVERNMENT AREA LIVERPOOL

PARISH OF HOLSWORTHY COUNTY OF CUMBERLAND

TITLE DIAGRAM DP825352

FIRST SCHEDULE

RAIL CORPORATION NEW SOUTH WALES

(AP AB386811)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 L457700 EASEMENT FOR SEWAGE APPURTENANT TO THE LAND ABOVE

DESCRIBED AFFECTING THE LAND SHOWN IN DP219462 &

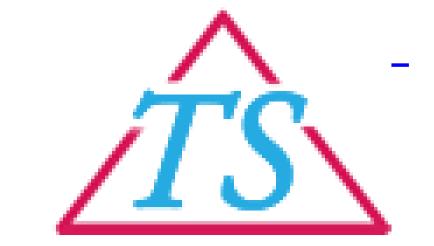
DP219463

2 DP802712 RIGHT OF CARRIAGEWAY 20.12 WIDE & VARIABLE

APPURTENANT TO THE LAND ABOVE DESCRIBED

NOTATIONS

UNREGISTERED DEALINGS: NIL







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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

_ _ _ _ _ _ _ _ _ _

7/7/2011 11:11AM

FOLIO: 1/825352

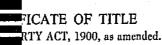
First Title(s): OLD SYSTEM

Prior Title(s): VOL 3788 FOL 87

Recorded	Number	Type of Instrument	C.T. Issue
9/12/1993	DP825352	DEPOSITED PLAN	FOLIO CREATED EDITION 1
17/12/2003	AA265901	TRANSFER	EDITION 2
5/4/2005	AB386811	APPLICATION	EDITION 3

NEW SOUTH WALES

Applications Nos. 6436 and 26388 Prior Titles Vol. 5655 Fol. 2 Vol. 6049 Fol. 69







10470 Fol.

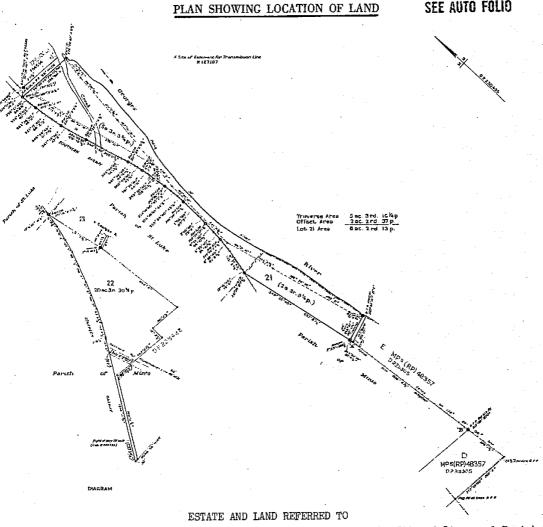
Edition issued 4-1-1967

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schooling.

Witness

Registrar General.

PLAN SHOWING LOCATION OF LAND



Estate in Fee Simple in Lot 21 in Deposited Plan 230435 at Casula in the City of Liverpool Parishes of St. Luke and Minto and County of Cumberland being part of Portion 271 of Parish of St. Luke granted to Richard Guise on 1-1-1810 and part of Portion 272 Parish of St. Luke granted to Charles Throsby on 1-1-1810. FIRST SCHEDULE (continued overleaf)

ROBERT ALEXANDER PAUL, of Centennial Park, Company Exective, as to that part of the land above described formerly comprised in Certificate of Title 1871 me 5655 Felio 2 and THE COMMONWEALTH OF AUSTRALIA, as to that part formerly comprised in Certificate of Title Volume 6049 Folio-69

> Jatson/ Registrar General.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.

2. Easement for Transmission Line created by Resumption No. H127107 affecting the piece of land above described shown as "Site of Easement for Transmission Line" in the plan hereon. D2230435

Caveat No.K258025 by the Registrar General as regards the part of the land above described formerly comprised in Certificate of Title Volume 3655 Folio 2. Entered 2 3 1966. Wildraum K465458

4. Right of Carriage Way appurtenant to the part of the land above described formerly comprised in Certificate of Title Volume 5655 Folio 2 affecting the parts of Lot 7 in Deposited Plan 228551, 30 feet wide designated (1), (2) and (3) created by the registration of Deposited Plan 228551.

Jakos Registrar General.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

WARNING THIS DOCUMENT MUST ZOT 먪 REMOVED FROM H

2

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

RC

Req:R434034 /Doc:CT 10470-183 CT /Rev:18-Feb-2011 /Sts:OK.SC /Prt:07-Jul-2011 14:35 /Pgs:ALL /Seq:2 of 2 Ref:7859 /Src:T

p.7.1,17 V.C.N. Blight, Government Printer

Signature of Registrar-General 19-1-1967 CANCELLATION ENTERED 14-9-1966 DATE NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED K465458 INSTRUMENT NATURE ENTERED SECOND SCHEDULE (continued) FIRST SCHEDULE (continued) PARTICULARS -SEE-AUTO-FOLIG REGISTERED PROPRIETOR NATURE Fol 183 04701 'lον (Page 2 of 2 pages)









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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

7/7/2011 2:32PM

FOLIO: 21/230435

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10470 FOL 183

Recorded	Number	Type of Instrument	C.T. Issue
 5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
6/7/1987		AMENDMENT: PARISH-COUNTY	
29/3/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
27/4/1994		AMENDMENT: LOCAL GOVT AREA	
14/9/2000	7089785	DEPARTMENTAL DEALING	
17/10/2008	DP1130937	DEPOSITED PLAN	
24/7/2009	AE856269	APPLN FOR REPLACEMENT CT	EDITION 1
30/9/2009	AE958429	TRANSFER	FOLIO CANCELLED







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Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES

FOLIO: 4/1130937

 ${ t TIME}$ SEARCH DATE EDITION NO DATE 7/7/2011 10:58 AM 30/9/2009

LAND

LOT 4 IN DEPOSITED PLAN 1130937

AT CASULA LOCAL GOVERNMENT AREA LIVERPOOL PARISH OF MINTO COUNTY OF CUMBERLAND PARISH OF ST LUKE COUNTY OF CUMBERLAND TITLE DIAGRAM DP1130937

FIRST SCHEDULE

THE COMMONWEALTH OF AUSTRALIA

SECOND SCHEDULE (3 NOTIFICATIONS)

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- H127107 EASEMENT FOR TRANSMISSION LINE AFFECTING THE PART SHOWN DESIGNATED (A) IN THE TITLE DIAGRAM
- DP228551 RIGHT OF CARRIAGEWAY APPURTENANT TO THE PART OF THE LAND ABOVE DESCRIBED FORMERLY IN VOL 5655 FOL 2

NOTATIONS

UNREGISTERED DEALINGS: NIL

* * * END OF SEARCH







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Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

7/7/2011 11:29AM

FOLIO: 4/1130937

First Title(s): OLD SYSTEM
Prior Title(s): 21/230435

Recorded	Number	Type of Instrument	C.T. Issue
17/10/2008	DP1130937	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
30/9/2009	AE958429	TRANSFER	FOLIO CREATED EDITION 1

167.

Appn. Nos 23320 and 24335 (as to Parthew South Wales.

[CERTIFICATE OF TITLE.]

For Grant particulars see Schedule hereunder .--

ORDER NO. D467188

Reference to Last Certificates

RESIDUE AFTER TRANSFER NO.D467187

REGISTER BOOK. 5585 Fol 160

CANCELLED M

CLIFFORD CLAYTON KENNETT, of Glenfield, Farmer, by virtue of Certificates of Title Volume 3295 Folio 225 and Volume 4827 Folio 180 now surrendered as to Residue after Transfer No. D467187 is now the proprietor of an . Estate in Fee Simple, subject nevertheless to the reservations and conditions if any contained in the Grants hereinafter referred to and also subject to such encumbrances liens and interests as are notified hereon in Those pieces of Land situated at Glenfield in the Municipalities of Ingleburn and Liverpool Parish of Minto and County of Cumberland, more full particulars of which are set forth in the following Schedule, which said pieces of land are shown in the plan hereon and therein edged red and were originally granted respectively by the Crown Grants mentioned in such Schedule.

- SCHEDULE REFERRED TO -

No. of	Area of Portion	Name of Grantee	Date of Grant	Original Reference	
Portion	Area of Foreion	Italia of of another		Vol.	Fol.
Pt. 60a. (Por. 68 of Ph) / Pt. 100a. (Por. 69 of Ph) / Pt. 80a. (Por. 70 of Ph) / Pt. 5a. 2r. 8p. Gt.	One hundred and thirty four acres three roods sixteen and three quarters perches Three ares one rood twelve perches One acre four perches	Dorthy Sophia Tull Aaron Byrne William Keele Clifford Clayton Kernett	lst January 1810 21st January 1930	- - - 4371	49

Excepting out of the said pieces of land the Great Southern Railway coloured purple in plan hereon the area of which is not included in the above statement of areas. -

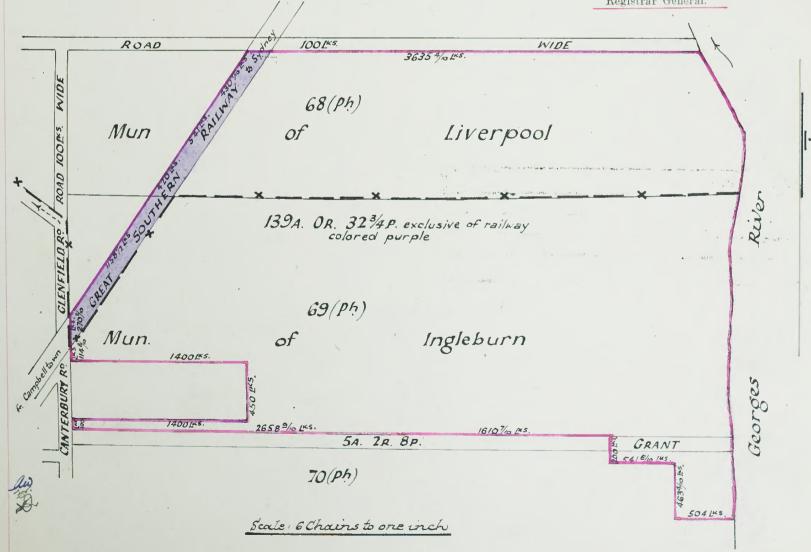
In witness whereof I have hereunto signed my name and affixed my Seal, this Juluty sighth day of

June;

19 46.

Signed in the presence of

Registrar General



D467188

31/2 hrs

NOTIFICATION/

NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

8646

/Prt:07-Jul-2011 14:10 /Pgs:ALL /Seq:1 of 2

169

EDITION ISSUED

-2 FEB 1994

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other

estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule

and to the provisions of the Real Property Act, 1900.

Registrar General



First Title Old System

Prior Title Vol.9738 Fol.13A

LAND REFERRED TO

1/6 Share in Lot 5 in DP833516 at Glenfield in the City of Liverpool Parish of Minto County of Cumberland.

Title Diagram: DP833516

FIRST SCHEDULE

HELEN LOUISE KENNETT

SECOND SCHEDULE

Reservations and conditions in the Crown Grant.

H127107 Easement for transmission line 18.29 wide affecting the part of the land within described shows to burdened in the title diagram. 29.8.1994 U.S.

K218860 Easement for co-axial cable 3.66 wide affecting the part of the land within 3. described shown so burdened in the title diagram.

E499675 Caveat by Minister Administering The Environmental Planning and Assessment.

The land above described is limited in stratum in the manner described in 5. Deposited Plan 833516

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

DIN ALISTO ALIA	646-169 CT /Rev:30-Nov-2005 /Sts:SC.OK /Prt:07-Jul-2011 Vol		
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	FIRST SCHEDULE (continued) REGISTERED PROPRIETOR		Registrar Gener
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	SECOND SCHEDULE (continued)		
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	FOLIO CANCELLED NEW FOLIO IS 5/833516 A		İ
	NO FURTHER DEALINGS TO BE REGISTERED		
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	NOTATIONS AND UNREGISTERED DEALINGS	1	L
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Ref:7859 /Src:T

NEW SOUTH WALES

CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

*C*T08646-170

8646 ...Fol. 170

Vol.

EDITION ISSUED

-2 FEB 1994

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and to the provisions of the Real Property Act, 1900.

Registrar General



First Title Old System

Prior Title Voi.9738 Foi.13B

LAND REFERRED TO

1/6 Share in Lot 5 in DP833516 at Glenfield in the City of Liverpool Parish of Minto County of Cumberland.

Title Diagram: DP833516

FIRST SCHEDULE

FIGELA PTY LIMITED

SECOND SCHEDULE

Reservations and conditions in the Crown Grant.

H127107 Easement for transmission line 18.29 wide affecting the part of the land within desgribed shown so burdened in the title diagram.

K218860 Easement for co-axial cable 3.66 wide affecting the part of the land within described shown so burdened in the title diagram.

E499673 Caveat by Minister Administering The Environmental Planning and Assessment.

E499673 Caveat E675189 Transfer caveator consented.

E499673 Caveat 1810469 Transfer caveator consented

7. The land above described is limited in stratum in the manner described in Deposited Plan 833516

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

LT 2/64

5-6-2000

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

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	REGISTERED PROPRIETOR		Registrar General
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	SECOND SCHEDULE (continued)		
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CERTIFICATE OF TITLE

REAL PROPERTY ACT, 1900

CT08646-171

171

8646

EDITION ISSUED

-2 FEB 1994

Vol.

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and to the provisions of the Real Property Act, 1900.

Registrar General



NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

First Title Old System

NEW SOUTH WALES

Prior Title Vol.9738 Fol.13C

LAND REFERRED TO

2/3 Share in Lot 5 in DP833516 at Glenfield in the City of Liverpool Parish of Minto County of Cumberland.

Title Diagram: DP833516

FIRST SCHEDULE

JC & F W KENNETT PTY LIMITED

SECOND SCHEDULE

Reservations and conditions in the Crown Grant.

H127107 Easement for transmission line 18.29 wide affecting the part of the land within described shown so burdened in the title diagram. -29.8.1994 · U150161

K218860 Easement for co-axial cable 3.66 wide affecting the part of the land within described shown so burdened in the title diagram.

E499674 Caveat by Minister Administering The Environmental Planning and Assessment.

E499674 Caveat 1810469 Transfer caveator consented.

The land above described is limited in stratum in the manner described in Deposited Plan 833516

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

N. AUSTRALIA (Austrianiania) L.O. 55			
	FIRST SCHEDULE (continued) REGISTERED PROPRIETOR		Registrar Gene
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	FOLIO CANCELLED NEW FOLIO IS		
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	NOTATIONS AND UNREGISTERED DEALINGS		
			,

TORRENS TITLE Register Book SCAO-169.

9738

13 A

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

PLAN SHOWING LOCATION OF LAND

09738013

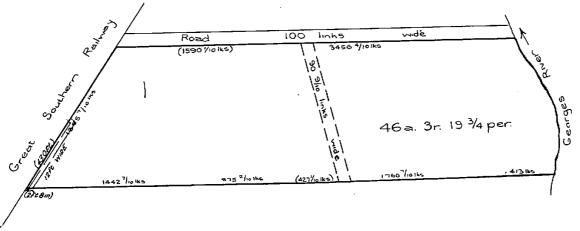
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THE LAND TITLES OFFICE



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Scale: 6 to

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in an undivided one sixth share in Lot 1 in Deposited Plan 509719 in the City of Liverpool Parish of Minto and County of Cumberland being part of Portion 68 granted to Dorothy Sophia Tull on 1-1-1810.

Registrar General.

FIRST SCHEDULE (continued overleaf)

Marys, Dairy Farmer

Registrar General.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Grown Grant(s) above referred to.

Easement for transmission line created by Resumption No.H127107 affecting the piece of land 90.9/10 links wide shown in the plan hereon.

Registrar General.

Req:R435905 /Do Ref:7864 /Src:T T 646987 N TS 10469- D /Pgs:ALL /Seq:2 Rev 3/29 bb 17月 2.21.01.1. 743551 PM ch pp ches 2817 Ja で売ったり 179 817

Signature of Registrar-General ENTERED CANCELLATION (86,949) 469497 かんなんなんな 810469 Hamper I monde. JANA 14. \$241299 Signature of Registrar-General Vietnaster Lot 7 in 2 833516 35/L 104 2 3 1966 ENTERED as regarde the residue being ests in DP83 Man Lanear. Administering The Environmental Planning and Consented, Registered 21-12-199 set out in the de mayor dang barna mana ma Meter denne Menne Menne Man SECOND SCHEDULE (continued) FIRST SCHEDULE (continued) THIS FOLIO IS CANCELLED - NOW BEING .. IN DEPOSITED SEE NEW FOLIO(S) of New brook Wales as to the fact of Do Co. accal Cable (as more fully For 169 PARTICULARS 833516 Vol. 8646 LOT(S). REGISTERED PROPRIETOR PLAN Regnotered Caviator THIS FOLIO IS CANCELLED AS TO PART SEE NEW 9961 1 . 9 Helm Somie permet E499675 awar by Minister Not 1979 r of Envir D 810469 Bushow ly 833516 833516 21-12-1993. K218860 Cavent by Direct E 499675 Carred DEPOSITED PLAN Asse ssmend BEING LOT(S) Kenis touch FOLIO(S) AEI

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JoV.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

FORM No. 183A

(Page 2 of 2 pages)

ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

UMNULLLU VV

G. NEW SOUTH WALES Application No.23320

CERTIFICATE OF TITLE REAL PROPERTY ACT, 1900, as amended. TORRENS TITLE Register Book

9738 Fol. Vol. 1st Edition issued

J558492

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

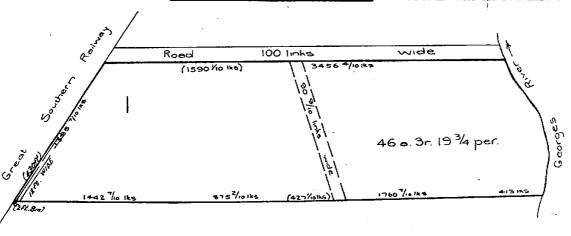
Prior title Vol.6486 Fol.47

WARNING: THIS DOCUMENT MUST NOT

BE

REMOVED FROM THE LAND TITLES OFFICE,

PLAN SHOWING LOCATION OF LAND



Scale: 6

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in an undivided one sixth share in Lot 1 in Deposited Plan 509719 in the City of Liverpool Parish of Minto and County of Cumberland being part of Portion 68 granted to Dorothy Sophia Tull on 1-1-1810.

Registrar General.

FIRST SCHEDULE (continued overleaf)

of Glonfield, Cartago Contracto

Registrar General.

SECOND SCHEDULE (continued overleaf)

Reservations and conditions, if any, contained in the Crown Grant(s) above referred to. Easement for transmission line created by Resumption No. H127107 affecting the piece of land 90.9/10 links wide shown in the plan hereon.

Registrar General.

44		1 2 2	<u> </u>				7		
⊢	7-6-1979	wer or					CANCELLATION	9650144 R256039 E64G986	
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9738

(Page 1) Vol.

<u>PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON</u>

Application No. 23320 Prior Titles Vol. 6486 Fols. 48 and

49

REAL PROPERTY ACT, 1900, as amended.

SC.

Register Book

13c 9738

Edit ion issued 3.3.1966.

K223481

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

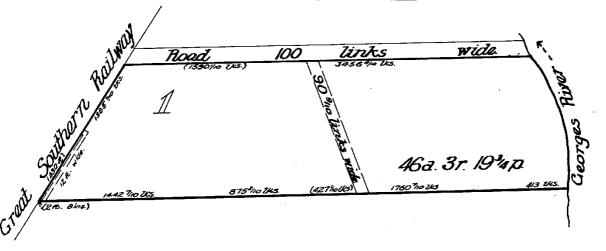
RBLatta Witness

Registrar General.



WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

PLAN SHOWING LOCATION OF LAND



KRR348IAO

Scale 6 chains to one inch

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in two undivided one third shares in Lot 1 in Deposited Plan 509719 in the City of Liverpool, Parish of Minto and County of Cumberland, and being part of Portion 68 granted to Dorothy Sophia Tull on 1.1.1810.

Registrar General.

FIRST SCHEDULE (continued overleaf)

KENNET PTY. LIMITED

Registrar General.

SECOND SCHEDULE (continued overleaf)

- 1. Reservations and conditions, if any, contained in the Grown Grant above referred to.
- 2. Easement for transmission line created by Resumption No. H127107 affecting the piece of land 90 9/10 links wide shown in the plan hereon.
- 3. Easement for Co-Axial Cable created by Transfer No. K218860 affecting the piece of land 12 feet wide in the plan hereon.

Registrar General.

Req:R435905 /Doc:CT Ref:7864 /Src:T \ X & ASSEML WG 77,64, W 09738-013 CT /Rev:16-Dec-2010 /Sts:OK.SC /Prt:07-Jul-2011 17:52 /Pgs:ALL /Seq:6 火をしのからつの Signature of Registrar General ST 1608 V, C N. PLICHT. GOVERNMENT PRINTER E646985 CANCELLATION ENTERED 9650144 R256039 810469, Temis Discharged Discharged Leven NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED compund Samon and the same and the same and marken Inanafer DP 83351L 28-4-1978 NATURE ENTERED water Administ exam The Coursement 21-12-1953 9 Lot 7 D'P 833516 Resistered 2.67992 SECOND SCHEDULE (continued) INDEPOSITED THIS FOLIO IS CANCELLED - NOW BEING SEE NEW FOLIO(S FIRST SCHEDULE (continued) to-The Commercial Bank of Australia Limited - Course browellth Shading Dante of Antotrakla perstrainty of new book Weller on to the your FOC 17 4 Planning Registered 13-9-1983 Vol 8646 833516 **PARTICULARS** Careator Consumted as regards the residence being 1979. LOT(S) PLAN REGISTERED PROPRIETOR 듹 -SEE NEW THIS FOLIO IS CANCELLED AS TO PART A Scesson end t by Director of Enviro 810469 DATE 833516 7/833511 Phy Simited Careal CANIAL --9650145and INSTRUMENT DEPOSITED PLAN... BEING LOT(S) 21-12-4993 FOLIO(S) FORM No. Manning 499674 T743550 Cave E 499674 $\mathcal{F}_{\mathcal{W}}$. Stake NATURE K 13 C (Page 2 of 2 pages) .loV ľο٦ 8846

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9738 Fol. 13C

For prior reference and title see Vol.6486 Fols.48 and 49.

CANCELLED

See new edition issued 3-3-1

REGISTRAR GENERAL

2 mil Johnson

M.

Req:R435905 /Doc:CT 09738-013 CT /Rev:16-Dec-2010 /Sts:OK.SC /Prt:07-Jul-2011 17:52 /Pgs:ALL /Seq:8 of 8 Ref:7864 /Src:T







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Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

_ _ _ _ _ _ _ _ _ _

7/7/2011 11:13AM

FOLIO: 5/833516

First Title(s): OLD SYSTEM

Prior Title(s): VOL 8646 FOLS 169-171

Recorded	Number	Type of Instrument	C.T. Issue
 29/9/1993	 DP833516	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
18/2/2000	6576910	DEPARTMENTAL DEALING	LOT RECORDED FOLIO NOT CREATED
4/7/2002	8741468	UNNECESSARY - DEPARTMENTAL DEALING	
16/11/2005	AB916612	DEPARTMENTAL DEALING	FOLIO CREATED CT NOT ISSUED
16/11/2005	AB916612	SUB FOLIOS CREATED: 5/833516A-C.	
20/12/2010	DP1155962	DEPOSITED PLAN	

14018092

Appln No 24335

Prior Title Vol. 6484 Fol. 159



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EDITION ISSUED

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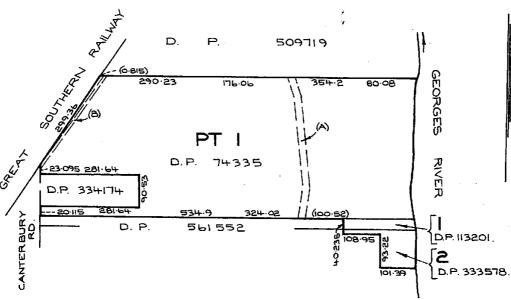
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



(A) - EASEMENT FOR TRANSMISSION LINE - 18-285 WIDE - HIZTIOT.

(B) - EASEMENT FOR CO-AXIAL CABLE - 3.66 WIDE - K218859.

REDUCTION

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 113201 Lot 2 in Deposited Plan 333578 and the part of Lot 1 in Deposited Plan 74335 shown in the plan hereon in the City of Campbelltown Parish of Minto County of Cumberland being part of Portion 69 granted to Aaron Byrne on 1-1-1810 part of Portion 70 granted to William Keele on 1-1-1810 and part of 2-246 hectares granted by Crown Grant Volume 4371 Folio 49. EXCEPTING THEREOUT the minerals reserved by the 2.246 hectares grant.

FIRST SCHEDULE



SECOND SCHEDULE

- 1. Reservations and conditions, if any, contained in the Crown grants above referred to.
- 2. H127107 Easement for transmission line affecting the land shown so burdened in the plan hereon.

3. K218859 Easement for co-axial cable affecting the land shown so burdened in the plan hereon.

4. M563321 Lease to William Thomas Particle of Sylvania Waters, Accountant and Kathleen Viola Partlett his wife of premises being the building known as "Hazelwood Park". Expires 31-12-1981. 1 810469

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CENTIFICATE OR ANY NOTIFICATION HEREON

(Page 1) Vol.

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Appn. Nos 23320 and 24335 (as to Parthew South Wales.

[CERTIFICATE OF TITLE.]

For Grant particulars see Schedule hereunder .--

ORDER NO. D467188

Reference to Last Certificates

RESIDUE AFTER TRANSFER NO.D467187

REGISTER BOOK. 5585 Fol 160

CANCELLED M

CLIFFORD CLAYTON KENNETT, of Glenfield, Farmer, by virtue of Certificates of Title Volume 3295 Folio 225 and Volume 4827 Folio 180 now surrendered as to Residue after Transfer No. D467187 is now the proprietor of an . Estate in Fee Simple, subject nevertheless to the reservations and conditions if any contained in the Grants hereinafter referred to and also subject to such encumbrances liens and interests as are notified hereon in Those pieces of Land situated at Glenfield in the Municipalities of Ingleburn and Liverpool Parish of Minto and County of Cumberland, more full particulars of which are set forth in the following Schedule, which said pieces of land are shown in the plan hereon and therein edged red and were originally granted respectively by the Crown Grants mentioned in such Schedule.

- SCHEDULE REFERRED TO -

No. of	Area of Portion	Name of Grantee	Date of Grant	Original Reference	
Portion	Area of Foreion	Italia of of another		Vol.	Fol.
Pt. 60a. (Por. 68 of Ph) / Pt. 100a. (Por. 69 of Ph) / Pt. 80a. (Por. 70 of Ph) / Pt. 5a. 2r. 8p. Gt.	One hundred and thirty four acres three roods sixteen and three quarters perches Three ares one rood twelve perches One acre four perches	Dorthy Sophia Tull Aaron Byrne William Keele Clifford Clayton Kernett	lst January 1810 21st January 1930	- - - 4371	49

Excepting out of the said pieces of land the Great Southern Railway coloured purple in plan hereon the area of which is not included in the above statement of areas. -

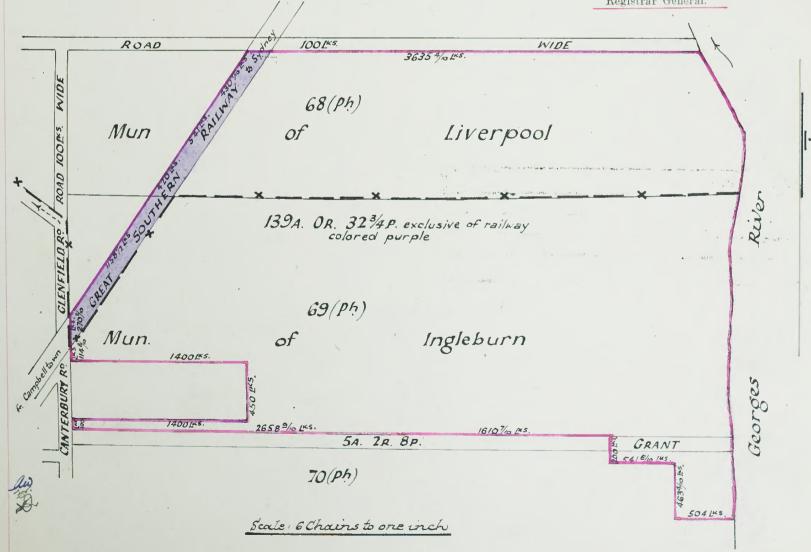
In witness whereof I have hereunto signed my name and affixed my Seal, this Juluty sighth day of

June;

19 46.

Signed in the presence of

Registrar General



D467188

31/2 hrs

NOTIFICATION/