

PRISMA ROUSE HILL PTY LTD



Preliminary Site Investigation

183 & 185 Bringelly Road, Leppington NSW

Report E23646.E01_Rev0 28 November 2017

REPORT DISTRIBUTION

Preliminary Site Investigation 54 Terry Road, Rouse Hill NSW

El Report No.: E23615.E01.Rev0 Date: 28 November 2017

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EXECUTIVE SUMMARY

Background and Objectives

Mr Mark Ng of Prisma Rouse Hill Developments Pty Ltd ("the Client") engaged El Australia Pty Ltd (El) to conduct a Preliminary Site Investigation (PSI) for site characterisation purposes of the land parcel with street address 54 Terry Road, Rouse Hill NSW (herein referred to as the 'the site'). This environmental assessment was completed as part of future development application package to Blacktown Council for residential subdivision.

At the time of this assessment, the site was a vacant rural residential property.

El was informed by the client that the proposed redevelopment would likely involve the demolition of existing structures and subdivision of the site for low density residential dwelling purposes.

The main objective of this investigation was to conduct a preliminary investigation to characterise the environmental conditions of the site based on historical land uses, anecdotal and documentary evidence of possible pollutant sources.

Key Findings

- Historical records indicated that that majority of the site was vacant in the 1940s. During the time between the 1961 and 1988 aerial photograph, the vacant land was developed into a rural residential site, and remained residential in nature until the current date. Agricultural operations were also occurring between the 2002 and 2015 aerial photograph.
- An application to access records held by Blacktown City Council was initiated on 13 November 2017; however, Council approval was still pending at the time of report writing. Should pertinent information be identified upon receipt of Council records, an addendum to the PSI will be prepared and issued.
- The site and lands in its close proximity (within 500 m), are not subject to any regulatory notices issued by the NSW EPA;
- The site and lands in its close proximity (within 500 m), are not register under the Operations (POEO) Act public register;
- The site walkover inspection and the historical research enabled the design of a conceptual site model (CSM), and subsequent qualitative risk assessment of environmental concerns. This found that:
 - Anthropogenic fill may be present at the site.
 - The building fabric may contain hazardous materials.
 - Areas of environmental concern included also the former use of the site for market gardening activities;
- Acid sulfate soil is unlikely to present at the site. There is no requirement for an acid sulfate soil management plan.
- It is likely that saline soils are to be expected, particularly on the western portion of the site. El
 recommends that a soil salinity assessment is to be undertaken.

A conceptual site model (CSM), and subsequently a qualitative risk assessment was derived for the site in this PSI. The CSM identified potential contaminating sources that may occur at the site and



evaluated the likelihood for relevant exposure pathways to be completed during and after the proposed redevelopment.

Based on the conceptual site model developed for the site and the findings presented above EI conclude that there is a low to medium potential for contamination to be present on site. EI consider that **the site can be made suitable** for the residential subdivision following completion of a Detailed Site Investigation (DSI), as well as a hazardous materials survey to quantify any potential contamination and assist with the selection and implementation of remedial and risk mitigation measures (if required).

Conclusions and Recommendations

The following recommendations are provided for the proposed development based on findings of this PSI:

- Prior to site demolition, carry out a Hazardous Materials Survey on existing site structures to identify potentially hazardous building products that may be released to the environment during demolition. This survey is necessitated by the legislative requirements of protecting site personnel from potential exposure risks and informing implementation of special waste management measures (if necessary);
- A soil salinity risk assessment is to be undertaken to determine the potential for saline soils being present onsite;
- Undertake a detailed site investigation (DSI) comprising an intrusive site investigation, including a programme of soil, surface water and sediment;
- Any material to be removed from the site (including virgin excavated natural materials or VENM) MUST be classified for off-site disposal in accordance the EPA (2014) Waste Classification Guidelines; and
- Any material being imported to the site should be assessed for potential contamination in accordance with NSW EPA guidelines as being suitable for the intended use.
- A Work Health and Safety Plan should be prepared by the appointed contractors involved in any proposed excavation works that have the potential of disturbing site fill soils, to include an assessment of risks from contact with any impacted soils and details of the required safety measures for the protection of site workers;
- The above recommendations should be implemented prior to the commencement of any site works involving the disturbance of, or contact with site soils; such as, trench excavations for the installation of new underground services.

The above recommendations should be managed in accordance with the State Environmental Planning Policy 55 (SEPP 55) and incorporated into conditions of the development consent.



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1. INTRODUCTION

1.1 BACKGROUND AND PURPOSE

Mr Mark Ng of Prisma Rouse Hill Developments Pty Ltd ("the Client") engaged El Australia Pty Ltd (El) to conduct a Preliminary Site Investigation (PSI) for site characterisation purposes of the land parcel with street address 54 Terry Road, Rouse Hill NSW (herein referred to as the 'the site').

The site is located approximately 33.9km north west of the Sydney Central Business District, within the Local Government Area of Blacktown City Council (see **Figure 1**). The site, which is identified as Lot 132 in DP208203, covers a total area of approximately 2.1 ha, as depicted in the site plan presented as **Figure 2**.

El understands that this investigation is required to appraise the environmental condition of the site as part of a future development application (DA) for the proposed development outlined in **Section 1.2**.

The investigation also provides more information on the potential environmental issues that will need to be addressed during the construction phase.

1.2 **PROPOSED DEVELOPMENT**

El was not supplied with proposed development plans to assist with the writing of this report.

However, it is understood that the future proposed redevelopment would likely involve the demolition of all structures and subdivision of the site for low density residential dwellings.

Based on the above, it is expected that only minor earthworks (excavations of <0.5m) would be required. However, local excavations may be required for footings, service trenches, and lift overrun pits.

1.3 **REGULATORY FRAMEWORK**

The following regulatory framework and guidelines were considered during the preparation of this report:

- EPA (2017) Guidelines for the NSW Site Auditor Scheme (3rd Edition);
- NEPC (2013) Schedule B(2) Guideline on Site Characterisation;
- Contaminated Land Management Act 1997;
- State Environment Protection Policy 55 (SEPP 55) *Remediation of Land* under the Environmental Planning and Assessment Act 1997;
- OEH (2011) *Guidelines for Consultants Reporting on Contaminated Sites*, NSW Office of Environment and Heritage (OEH), August 2011; and
- EPA (2014) Waste Classification Guidelines Part 1 Classifying Waste under the Protection of the Environment Operations Act and POEO (Waste) Regulation 2014.

1.4 **PROJECT OBJECTIVES**

The primary objectives of this PSI is to provide a qualitative assessment of the environmental conditions of the site by appraising the potential for site contamination on the basis of field observations, historical land uses, anecdotal and documentary evidence.



1.5 SCOPE OF WORKS

In accordance with EI fee proposal P15162.2 dated 7 November 2017, the above objectives would be achieved by carrying out the following scope of works:

1.5.1 Desktop Study

- A review of relevant hydrogeological and soil landscape maps for the project area;
- Search of historical aerial photographs archived at NSW Land and Property Information in order to review previous site use and the historical sequence of land development in the neighbouring area;
- A land titles search, also conducted through NSW Land and Property Information for information relating to site ownership;
- Site history survey involving a detailed search of Blacktown City Council records for information relating to operational site history and/or relevant environmental incidents;
- A search through the NSW EPA / OEH Land Information records to confirm that there are no statutory notices current on the site under the Contaminated Land Management Act (1997) or Protection of the Environment Operations Act (1997);
- A review of existing underground services in the vicinity of the site; and
- An inspection of the site and surrounding lands.

1.5.2 Data Analysis and Reporting

Following the desktop assessment and site inspection, this PSI report was prepared generally in accordance with the OEH (2011) *Guidelines for Consultants Reporting on Contaminated Sites.* This report documents the contaminated land assessment and discusses the findings with respect to potential risks to human health, the environment and the aesthetic enjoyment of the land and provides recommendations regarding further assessment to enable mitigation/management of any risks.



2. SITE DESCRIPTION

2.1 PROPERTY IDENTIFICATION, LOCATION AND PHYSICAL SETTING

The site identification details and associated information are presented in **Table 2-1**, while the site locality is shown in **Figure 1**.

Attribute	Description	
Street Address	54 Terry Road, Rouse Hill NSW	
Location Description	Approx. 33.9km North west of Sydney CBD. It is an irregular shaped block immediately bound by:	
	North and West: Rural residential;	
	East: Terry Road, followed by a dam and caravan park; and	
	South: Railway Corridor (still under construction for Northwest Rail Link).	
GDA94-MGA56 Coordinates	GPS coordinate for north east corner of site Easting: 306552.775, Northing: 6270398.838 (Source: https://maps.six.nsw.gov.au/).	
Site Area	Approx. 2.1ha (Ref. Six Maps)	
Lot and Deposited Plan (DP)	Lot 132 in DP208203	
State Survey Marks	Two State Survey (SS) marks were situated in close proximity to the site: SS196531 (north of the site) on the corner of Bella Parade and Barbola; and SS196530 (north-east of the site) on the corner of Terry Road and Gwen Street. (Source: https://maps.six.nsw.gov.au/).	
Local Government Authority	Blacktown City Council	
Parish	Nelson	
County	Cumberland	
Current Zoning	R3 - Medium Density Residential RE1 - Public Recreation and SP2 - Infrastructure : Local Drainage (State Environmental Planning Policy: Sydney Region Growth Centres, 2006)	

Table 2-1 Site Identification, Location and Zoning

2.2 LOCAL LAND USE

The site is situated within an area of mixed uses on surrounding land as described in **Table 2-2**. The local sensitive receptors within close proximity to the site are also identified.



Table 2-2 Local Land Use

Direction	Land Use Description	Sensitive Receptors (& distance from site)
North	A large, vacant lot.	Residential dwellings (350m), Rouse Hill Anglican College (500m)
South	Terry Road, a two-lane asphaltic-concrete paved road. Beyond Terry Road lies a caravan park.	Northwest Rail Link Corridor (75m)
East	A large vacant lot, followed by the Northwest Rail Link Bridge.	Caravan Park
West	Second Ponds Creek, followed by heavily vegetated bush land.	Residential dwellings (340m)

2.3 REGIONAL SETTING

Local topography, geology, soil landscape and hydrogeological information are summarised in **Table 2-3**.

Attribute	Description
Topography	Slight slope to the west.
Site Drainage	Site drainage is likely to be consistent with the general slope of the site. Stormwater is likely to be collected by pit and pipe drainage, and drain either to the municipal stormwater system to Second Ponds Creek, which runs through the western portion of the site.
Regional Geology	Information on regional sub-surface conditions, referenced from the Department of Mineral Resources Geological Map Penrith 1:100,000 Geological Series Sheet 9131 (DMR 1991) indicates the site is underlain by Ashfield Shale, which typically comprises dark-grey to black claystone-siltstone and fine sandstone-siltstone laminite.
Soil Landscapes	The Soil Conservation Service of NSW Soil Landscapes of the Sydney 1:100,000 Sheet (Chapman and Murphy, 1989) indicates that the site overlies the Blacktown (bt) residual landscape. According to Chapman and Murphy, this landscape type is characterised by local relief to 30 m and slopes usually <5%, broad rounded crests and ridges with gently inclined slopes. Soils are shallow to moderately deep (<100 cm) hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines.
Acid Sulfate Soil Risk	No Acid Sulfate Soils Maps are available for the site, however, due to the locality and geology of the site, the probability of the Acid Sulfate Soils occurring is low.
Soil Salinity Risk	With reference to DIPNR (2002) Salinity Poitential in Western Sydney mapping (1:100,000), the subject land lies within the map class description of Known and <i>Moderate to High Salinity Potential.</i>
Nearest Surface Water Feature	Second Ponds Creek, which runs through the western portion of the site.
Anticipated Groundwater Flow Direction	West towards Second Ponds Creek.

 Table 2-3
 Topographical, Geological, Soil Landscape and Hydrogeological Information



2.4 GROUNDWATER BORE RECORDS AND LOCAL GROUNDWATER USE

Online search of registered groundwater bores was conducted by EI on 24 November 2017 through the NSW Natural Resource Atlas database (Ref. <u>http://allwaterdata.water.nsw.gov.au/water.stm</u>), indicated that there are no bores within a 500m radius of the site, as shown in **Appendix A**.

2.5 SITE WALKOVER INSPECTION

Site observations were recorded during a site walkover inspection of the site on 10 November 2017. The location of onsite building structures are presented in **Figure 2** and a summary of site observations are detailed in **Section 2.5.1** below.

2.5.1 General Site Observations

With reference to site photographs taken during the inspection, which are included in **Appendix B**, pertinent site observations were summarised as follows:

- A vacant single-storey fibre dwelling (potentially asbestos containing) was located on the central portion of the site and appeared to be dilapidated (see **photographs B1**);
- There is a potential septic tank located adjacently west of the residential property (see photographs B2);
- Metal sheds are located southern and western portion of the site. The sheds contain various amounts of rubbish stored (see **photographs B3**);
- There is a creek (Seconds Ponds Creek) located on the western portion of the site (see **photograph B4**);
- A man made dam was present on the central portion of the site.
- The grass patch across the site was observed to have minimal signs of distress, with most of the vegetation being overgrown (see **photographs B5 & B6**);
- No suspicious odours were observed during the site inspection;
- There was no evidence of the presence of underground petroleum storage systems (UPSS) onsite during the site inspection.

The location of site buildings discussed in the site walkover observations are presented in Figure 2.



3. SITE HISTORY AND SEARCHES

3.1 SITE LAND TITLES INFORMATION / HISTORIC AERIAL REVIEW

A historical land titles search was conducted through Scott Ashwood Pty Ltd. Copies of relevant documents resulting from this search are presented in **Appendix C**. A summary of all the previous and current registered proprietors (**Table 3-1**), along with information obtained from the available historical aerial photographs, in relation to past potential land uses (**Table 3-2**). The historical aerial photographs reviewed as part of this PSI included:

The historical aerial photographs reviewed as part of this PSI included:

- 1947: January 1947, Run 39, B/W, NSW 60-98 Lands Photo NSW;
- 1961: 1961, B/W, NSW 1052-5117 Land and Property Information NSW Photo;
- 1986: 1986, NSW 3529 -179 Land and Property Information NSW Photo;
- 1991: 13 August 1991, Run 12, NSW 4028 Land and Property Information NSW;
- 2004: 3 October 2004, Run 8, NSW 4875 Department of Lands NSW Photo; and
- 2015: Six Maps (<u>http://maps.six.nsw.gov.au/</u>).

Date of Acquisition and term held	Registered Proprietor(s) & Occupations (where documented)	Site description based on historical aerial photographs	Associated business
Lot 132 D.P. 208	3203 – 54 Terry Road		
19.11.1901 (1901 to 1948)	Edwin Stephen Rouse (Esquire)	1947 : The appeared to be vacant in nature with no development onsite.	Vacant Land
14.10.1948 (1948 to 1953)	Nina Beatrice Terry (Married Woman) (Application by Transmission not investigated)		
19.06.1953 (1953 to 1960)	Richard Willoughby Aston Pubsey- Dawson (Grazier)		_
15.01.1960 (1960 to 1962)	Roderick Buchanan Rouse Terry (Farmer) Edwin Terrence Terry (Farmer) Gerald George Terry (Farmer)	1961 : Allotment remains primarily unchanged from 1947.	_
04.08.1962 (1962 to 1970)	Alexander Clarke (Fitter) Betty Kathleen Clarke (Married Woman)		_
08.07.1970 (1970 to 1986)	Francesco Leuzzi (Bootmaker) Francesca Leuzzi (Married Woman) Giuseppe Leuzzi (Bootmaker)		

Table 3-1 Summary of Owners and Historical Aerial Photography



Date of Acquisition and term held	Registered Proprietor(s) & Occupations (where documented)	Site description based on historical aerial photographs	Associated business
29.04.1986 (1986 to 1987)	Christopher Vincent Goodsell	1986 : The site appears to have been developed into a rural residential site, with the residential building located at the southern central portion and shed also located in the southern and north western portion of the site. A dam has also been developed in northern portion of the site.	Rural Residential
17.03.1987 (1987 to 1993)	Christopher Vincent Goodsell Peter Stephen Goodsell	1991 : Allotment remains primarily unchanged from 1986.	-
06.12.1993 (1993 to Date)	# Terrence John Fitzgerald # Wendy Patricia Fitzgerald	 2002: Allotment remains primarily unchanged from 1991, with the exception of agricultural operations occurring in the north west portion of the site. 2015: Allotment remains primarily unchanged from 1991. 	-

In summary, review of land titles records and historic aerial photography showed that majority of the site was vacant in the 1940s. During the time between the 1961 and 1988 aerial photograph, the vacant land was developed into a rural residential site, and remained residential in nature until the current date. Agricultural operations were also occurring between the 2002 and 2015 aerial photograph.

3.2 SURROUNDING LANDS HISTORICAL AERIAL PHOTOGRAPHY REVIEW

As part of the Site Land Titles Information / Historic Aerial Review, an assessment of surrounding land uses using historical aerial photographs sourced from NSW Land and Property Information was carried out. A summary of the pertinent information identified at surrounding land parcels from the reviewed aerial photographs presented in **Table 3-3**.

Aerial Photograph	Surrounding land uses based on historical aerial photographs		
1947 January 1947	Surrounding land use in all directions is primary vacant land, with no development in close proximity to the site.		
1961	Surrounding land use to the east, south and west of the site, has been developed into rural residential properties, with dam also located to the east of the site.		
1986	Further rural residential development and dams located to the south and west of the site. A caravan park has also been developed to the east of the site.		

Table 3-2 Summary of Aerial Photograph Review





Aerial Photograph	Surrounding land uses based on historical aerial photographs
1991	Surrounding land use in all directions remained primarily unchanged from the 1986 aerial photograph, with the exception of agricultural operations occurring in the south and west of the site.
2002	Surrounding land use in all directions remained primarily unchanged from the 1991 aerial photograph, with the exception of further agricultural land use south and west.
2015 Six Maps https://maps.six.nsw.gov.au/	Surrounding land use in all directions remained primarily unchanged from the 2002 aerial photograph, with the exception of the construction of the Northwest Rail Link railway corridor, to the south of the site.

3.3 COUNCIL INFORMATION

An application to access records held by Blacktown City Council was initiated on 13 November 2017; however, correspondence from Council was still pending as at the time of report writing. Should pertinent information be identified upon receipt of Council records, an addendum to the PSI will be prepared and issued.

3.4 CONTAMINATED LAND – RECORD OF NOTICES UNDER SECTION 58 OF CLM Act (1997)

An on-line search of the contaminated land public record of EPA Notices was conducted on 20 November 2017.

The contaminated land public record is a searchable database of:

- 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 Environment Protection Authority (EPA) has not been revoked;
- Site audit statements provided to the NSW EPA 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; and
- Actions taken by NSW EPA under section 35 or 36 of the Environmentally Hazardous Chemicals Act 1985 (EHC Act).

The search confirmed that the site known as 54 Terry Road, Rouse Hill NSW and lands in its close proximity (within 500 m), are not subject to any regulatory notices issued by the NSW EPA.

3.4.1 List of NSW contaminated sites notified to EPA

A search through the List of NSW Contaminated Sites notified to the EPA under Section 60 of the CLM Act 2008 was conducted on 20 November 2017. This list is maintained by NSW EPA and includes properties on which contamination has been identified. Not all notified land is deemed to be impacted significantly enough to warrant regulation by the NSW EPA.

This search confirmed that the NSW OEH had no regulatory involvement in relation to the site known as 54 Terry Road, Rouse Hill NSW, and property, located ≤500 m of the site was identified.



3.4.2 POEO Public Register

A search of the Protection of the Environment Operations (POEO) Act public register was conducted on 20 November 2017. The public register contains records related to environmental protection licences, applications, notices, audits, pollution studies, and reduction programmes. The search identified that there are no records under the POEO public register for the site known as 54 Terry Road, Rouse Hill NSW, and property, located ≤500 m of the site was identified.



4. SITE CHARACTERISATION

4.1 OVERVIEW

The primary purpose of this assessment is to evaluate the environmental and human-health risks associated with potential contamination at the site. In the context of this assessment, these risks may be defined as the probability that the utility of the site may be diminished by the presence of soil, soil vapour or groundwater contamination, which may require that the site be remediated prior to any redevelopment, particularly where more sensitive land uses are proposed.

For the purposes of producing a qualitative assessment of risk, the degree of contamination risk at this site is indicated in this section with due regard for site contamination experienced on typical commercial sites in the Sydney metropolitan area.

Since this assessment is based on the findings of a preliminary site investigation, which did not involve sampling and analysis of soils, soil vapours or groundwater, risks have been assessed on the basis of:

- Information gleaned from the site history searches in relation to previous land uses and anecdotal findings relating to operational activities, the type of materials handled on the site and their packaging;
- Site surface conditions, as deduced from visual observations;
- Anecdotal evidence regarding management practices on the site, as revealed during interviews with current staff;
- The geological and hydrological setting of the site; and
- Professional judgement based on previous experience on similar commercial/industrial sites.

Whilst this approach provides a framework for preliminary assessment of relative risk, its limitations must be clearly understood. Only sampling and analysis can provide a definitive picture of the contamination status of a site.

Nevertheless, the information provided in this report may be sufficient to make a decision as to the risks associated with potentially impacted soils, soil and groundwater at the site.

4.2 HISTORICAL SITE USE AND GENERIC RISKS

The available historical information indicates from historic aerial photography showed that majority of the site was vacant in the 1940s. During the time between the 1961 and 1988 aerial photograph, the vacant land was developed into a rural residential site, and remained residential in nature until the current date. Agricultural operations were also occurring between the 2002 and 2015 aerial photograph. Buildings currently remain onsite. The assessment of these risks in relation to this site is outlined in **Table 4-1**.



		•	
Potential Sources	Impacted Medium	Potential Contaminants of Concern	Likelihood for Contamination to Occur and Influence End Use of the Proposed Development
Fill soils of unknown origin placed underneath the building structures for levelling purposes.	Soil	HM, TRH, PAH, BTEX, OC/OP Pesticides, PCB and asbestos	Low to Medium Although significant filling was not expected at the site, thickness and quality of the filling requires confirmation by intrusive soil investigation and sampling.
			Vertical migration of contamination to underlying groundwater, if present, is possible if permeable residual soils are present.
Historical agricultural activities on-site	Soil	OC/OP Pesticides	Medium While the site previously utilised for rural residential use, there is uncertainty regarding the former site operations and practices during market gardening operations.
Weathering of exposed painted surfaces and metallic objects in existing site structures.	Soil	HM	Low to Medium Impacted surficial soils and migration of contamination to subsurface soils is likely to have occurred. In addition, considering the overall condition of site structures, the degree of soil contamination, if any, will likely be minor. There is, however, potential for contamination to be present in areas surrounding the former site structure.
Potential on-site use of pesticides underneath existing building footprints	Soil	HM, OC/OP Pesticides	Low to Medium Any impacts, should they be present, would likely be present beneath existing structures, and limited to shallow soils considering the nature of the application.
Spills and leaks of oils / fuels from cars	Soils	HM, BTEX, TRH, PAH, OC/OP Pesticides	Low to Medium Should leaks have occurred then any contamination would be limited to shallow soils due to the likely presence of impermeable natural clays.
Hazardous building products contained in existing site structures	Building fabric	Asbestos, PCB, lead, synthetic fibres	Medium A Hazardous Materials Survey will be required to identify hazardous building products in existing structures. Potential for contamination of site soils could possibly occur as a result of the poor management during demolition of the structures.
Fertilizer spraying, filling and surface	Impacted dam water and sediment	OC/OP Pesticides, TRH,	Medium Contamination is likely to have migrated to the

Table 4-1 Assessment of contamination risk from potential sources

4.3 CONCEPTUAL SITE MODEL

water run-off collection

from market gardens

In accordance with NEPM (2013) *Schedule B2 – Guideline on Site Characterisation* and to aid in the assessment of data collection for the site, EI developed a preliminary conceptual site model (CSM) assessing plausible pollutant linkages between potential contamination sources, migration pathways and receptors. The CSM provides a framework for identifying data gaps in the existing site characterisation and future site assessments. Potential contamination sources, exposure pathways and receptors that were considered relevant for this assessment are summarised below.

PAHs, BTEX and

HM



dam from the use of fertilizers etc. impacting the

water and / or the sediments which could eventually seep to groundwater and / or

surrounding soils.

4.4 POTENTIAL CONTAMINATION SOURCES

On the basis of the PSI findings potential contamination sources are as follows:

- Unknown type and concentration of potential contaminants within imported fill within the areas of building construction for levelling purposes;
- Potential contamination from long-term agricultural use of the site;
- Contamination of soils via weathering of building structures (i.e. painted surfaces, metallic structures, cement-fibre sheeting, asbestos etc.);
- Potential residues from pesticide use;
- Spills and leaks from cars;
- Soils containing residual contamination, acting as potential secondary sources of contamination;
- Contamination from onsite waste stockpile storage;
- Unknown quality of the dam water and sediment;
- Potential contamination from unknown offsite sources; and
- Hazardous building products present in existing structures.

4.5 CONTAMINANTS OF POTENTIAL CONCERN

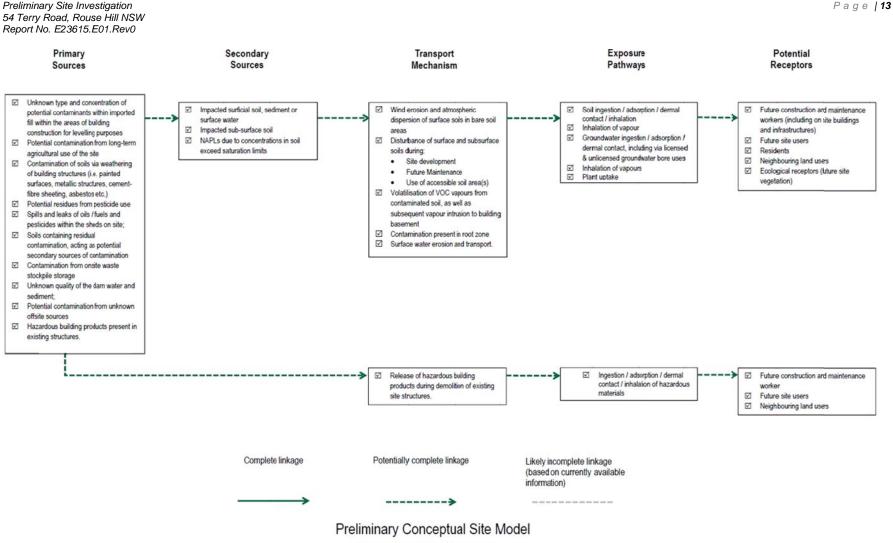
Based on the findings of the PSI, the chemicals of potential concern (COPC) at the site are considered to be:

- Soil heavy metals (HM), total recoverable hydrocarbons (TRH), the monocyclic aromatic hydrocarbon compounds *benzene, toluene, ethyl-benzene* and *xylenes* (BTEX), volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), organochlorine and organophosphorus pesticides (OCP/ OPP), polychlorinated biphenyls (PCB), and asbestos.
- Surface Water / Sediment heavy metals (HM), total recoverable hydrocarbons (TRH), the monocyclic aromatic hydrocarbon compounds *benzene, toluene, ethyl-benzene* and *xylenes* (BTEX), volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), organochlorine and 0rganophosphorus pesticides (OCP/ OPP) and polychlorinated biphenyls (PCB).

4.6 POTENTIAL SOURCES, RECEPTORS AND EXPOSURE PATHWAYS

Potential contamination sources, exposure pathways and human and environmental receptors that were considered relevant for this assessment are summarised in **Figure 4-1**.





Source: based on NEPM schedule B4 HRA Methodology

Figure 4-1 Conceptual Site Model – 54 Terry Road, Rouse Hill NSW



4.7 DATA GAPS

Based on the CSM derived for the site (**Section 4**) and the above qualitative assessment of risks, the following data gaps have been identified, which are considered to warrant closure by intrusive site investigation:

- The presence of onsite contamination from identified sources (listed in **Section 4.4**) require confirmation;
- The degree and extent of onsite contamination, if any; and
- Potential presence of any contamination from other unknown onsite and offsite sources.



5. CONCLUSIONS

The property located at 54 Terry Road, Rouse Hill NSW was the subject of a Preliminary Site Investigation. The investigation was performed to evaluate potential for on-site contamination associated with current and former land uses as part of a future DA future proposed redevelopment would likely involve the demolition of all structures and subdivision of the site for low density residential dwelling purposes.

Based on the findings of this assessment, it is concluded that:

- Historical records indicated that that majority of the site was vacant in the 1940s. During the time between the 1961 and 1988 aerial photograph, the vacant land was developed into a rural residential site, and remained residential in nature until the current date. Agricultural operations were also occurring between the 2002 and 2015 aerial photograph.
- An application to access records held by Blacktown City Council was initiated on 13 November 2017; however, Council approval was still pending at the time of report writing. Should pertinent information be identified upon receipt of Council records, an addendum to the PSI will be prepared and issued.
- The site and lands in its close proximity (within 500 m), are not subject to any regulatory notices issued by the NSW EPA;
- The site and lands in its close proximity (within 500 m), are not register under the Operations (POEO) Act public register;
- The site walkover inspection and the historical research enabled the design of a conceptual site model (CSM), and subsequent qualitative risk assessment of environmental concerns. This found that:
 - Anthropogenic fill may be present at the site.
 - The building fabric may contain hazardous materials.
 - Areas of environmental concern included also the former use of the site for market gardening activities;
- Acid sulfate soil is unlikely to present at the site. There is no requirement for an acid sulfate soil management plan.
- It is likely that saline soils are to be expected, particularly on the western portion of the site. El recommends that a soil salinity assessment is to be undertaken.

A conceptual site model (CSM), and subsequently a qualitative risk assessment was derived for the site in this PSI. The CSM identified potential contaminating sources that may occur at the site and evaluated the likelihood for relevant exposure pathways to be completed during and after the proposed redevelopment.

Based on the conceptual site model developed for the site and the findings presented above EI conclude that there is a low to medium potential for contamination to be present on site. EI consider that **the site can be made suitable** for the residential subdivision following completion of a Detailed Site Investigation (DSI), as well as a hazardous materials survey to quantify any potential contamination and assist with the selection and implementation of remedial and risk mitigation measures (if required).



6. **RECOMMENDATIONS**

The following recommendations are provided for the proposed development based on findings of this PSI:

- Prior to site demolition, carry out a Hazardous Materials Survey on existing site structures to identify potentially hazardous building products that may be released to the environment during demolition. This survey is necessitated by the legislative requirements of protecting site personnel from potential exposure risks and informing implementation of special waste management measures (if necessary);
- A soil salinity risk assessment is to be undertaken to determine the potential for saline soils being present onsite;
- Undertake a detailed site investigation (DSI) comprising an intrusive site investigation, including a programme of soil, surface water and sediment;
- Any material to be removed from the site (including virgin excavated natural materials or VENM) MUST be classified for off-site disposal in accordance the EPA (2014) Waste Classification Guidelines; and
- Any material being imported to the site should be assessed for potential contamination in accordance with NSW EPA guidelines as being suitable for the intended use.
- A Work Health and Safety Plan should be prepared by the appointed contractors involved in any proposed excavation works that have the potential of disturbing site fill soils, to include an assessment of risks from contact with any impacted soils and details of the required safety measures for the protection of site workers;
- The above recommendations should be implemented prior to the commencement of any site works involving the disturbance of, or contact with site soils; such as, trench excavations for the installation of new underground services.

The above recommendations should be managed in accordance with the State Environmental Planning Policy 55 (SEPP 55) and incorporated into conditions of the development consent.



7. STATEMENT OF LIMITATIONS

This report has been prepared for the exclusive use of Prisma Rouse Hill Developments Pty Ltd who is the only intended beneficiary of El's work. The scope of the investigations carried out for the purpose of this report is limited to those agreed with ZTA Architects on 7 November 2017.

No other party should rely on the document without the prior written consent of EI, and EI undertakes no duty, or accepts any responsibility or liability, to any third party who purports to rely upon this document without EI's approval.

El has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia as at the date of this document. No other warranty, expressed or implied, is made or intended. Each section of this report must be read in conjunction with the whole of this report, including its appendices and attachments.

The conclusions presented in this report are based on a limited assessment of historical site use and current use of the site. Due to the preliminary nature of this assessment, findings are not based on actual samples collected or testing conducted. El has relied upon information provided by the Client and other third parties to prepare this document, some of which could not be verified by El due to the anecdotal or historical nature of the information.

El's professional opinions are reasonable and based on its professional judgment, experience and training.

EI's professional opinions contained in this document are subject to modification if additional information is obtained through the data searches that have been initiated with government authorities, but for which the requested information is still pending.

Technical opinions may also be amended in the light of further investigation, observations, or validation testing and analysis during remedial activities. In some cases, further testing and analysis may be required, which may result in a further report with different conclusions.



REFERENCES.

Chapman, G.A. and Murphy, C.L. (1989) Soil Landscapes of the Sydney 1:100 000 sheet, Soil Conservation Service of NSW, Sydney, September 1989.

DEC (2006) Soil Investigation Levels for Urban Development Sites in NSW, in Guidelines for the NSW Site Auditor Scheme, 2nd Edn., NSW Dept. of Environment and Conservation, DEC 2006/121, April 2006.

DMR (1987) Sydney 1:100,000 Geological Series Sheet 9131 & 9132 (Edition 1). Geological Survey of New South Wales, Department of Mineral Resources.

DIPNR (2002) Salinity Potential in Western Sydney and Guidelines to Accompany Map of Salinity Potential for Western Sydney, Department of Infrastructure, Planning and Natural Resources, 2002.

EPA (2014) Technical Note: Investigation of Service Station Sites, NSW EPA, April 2014;

EPA (2014) Waste Classification Guidelines, NSW EPA, November 2014;

NEPM (2013) Schedule B1 Guideline on Investigation Levels for Soil and Groundwater, Schedule B2 Guideline on Site Characterisation and Schedule B4 Guideline on site-specific health risk assessments, National Environmental Protection (Assessment of Site Contamination) Measure 1999, National Environmental Protection Council, December 1999, Amendment 2013;

OEH (2011) Guidelines for Consultants Reporting on Contaminated Sites, NSW Office of Environment and Heritage (OEH), OEH 2011/0650, 23 p; and

SEPP 55 (1997) State Environment Protection Policy 55, Remediation of Land under the Environmental Planning and Assessment Act 1997.



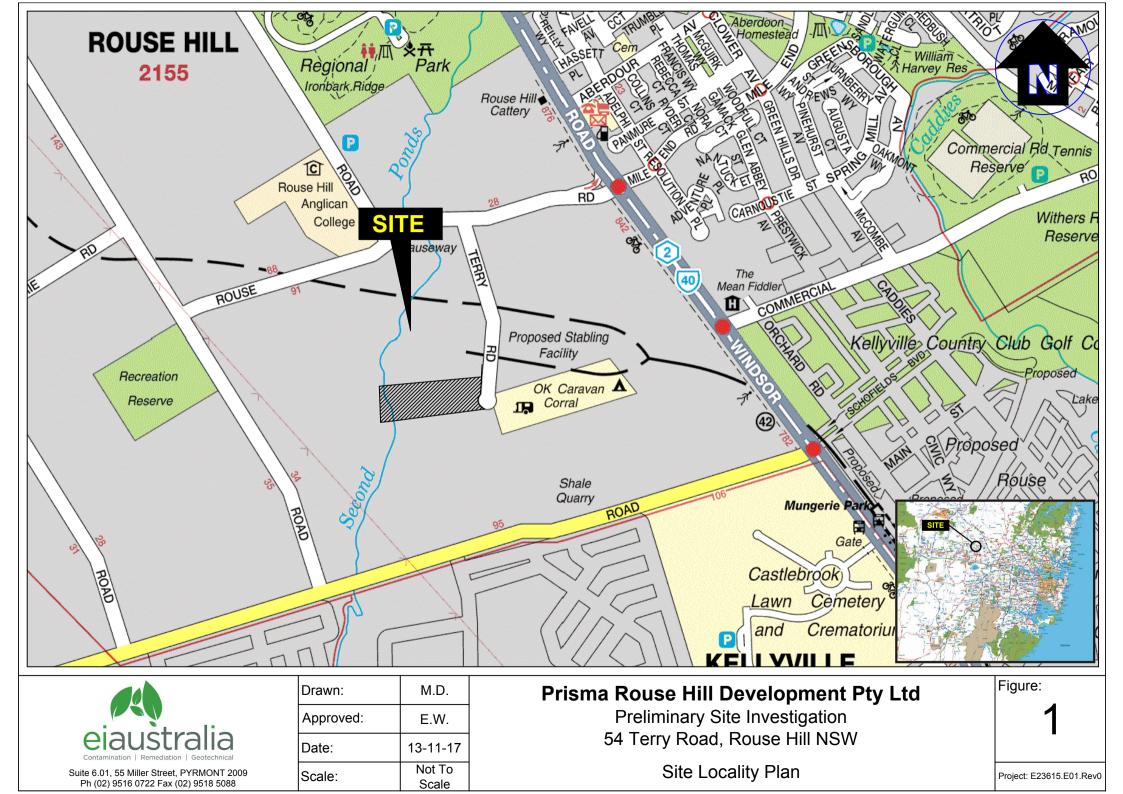
ABBREVIATIONS

AHD	Australian Height Datum
ASS	Acid sulfate soils
BTEX	Benzene, Toluene, Ethyl benzene, Xylene
DEC	Department of Environment and Conservation, NSW
DECC	Department of Environment and Climate Change, NSW (formerly DEC)
DA	Development Application
DP	Deposited Plan
EPA	Environment Protection Authority
km	Kilometres
m	Metres
mAHD	Metres relative to Australian Height Datum
NEPC	National Environmental Protection Council
NSW	New South Wales
OEH	Office of Environment and Heritage, NSW (formerly DEC, DECC, DECCW)
PAHs	Polycyclic Aromatic Hydrocarbons
PSI	Preliminary Site Investigation
TPHs	Total Petroleum Hydrocarbons
TRHs	Total Recoverable Hydrocarbons
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds



FIGURES







– – – Approximate site boundary



Drawn:		D.R.	Pris		
	Approved:	E.W.			
	Date:	13-11-17			

isma Rouse Hill Development Pty Ltd Preliminary Site Investigation 54 Terry Road, Rouse hill NSW

Site Layout Plan

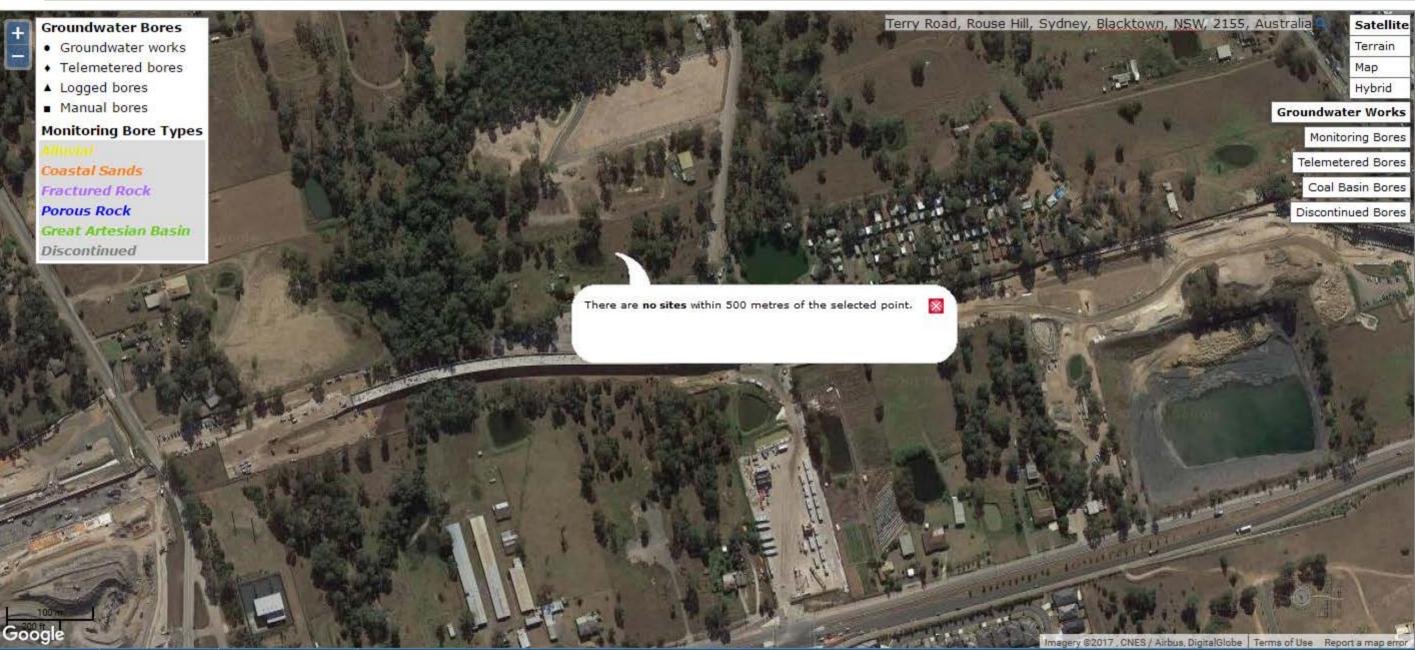
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APPENDIX A NR Atlas Groundwater Bore Search







APPENDIX B Site Photographs





Photograph B1: Residential property located on the southern portion of the site.



Photograph B2: Septic tank located south-west of the residential property.





Photograph B3: Shed containing waste stockpiles, located in the southern portion of the site.



Photograph B4: Seconds Ponds Creek, located in the western portion of the site.





Photograph B5: Overgrown- vegetation located on the site. Photograph directed towards the northern direction.



Photograph B6: Overgrown- vegetation located on the site. Photograph directed towards the western direction.



APPENDIX C Historical Property Title Searches





ABN: 42 166 543 255 Ph: 02 9099 7400 Fax: 02 9232 7141

<u>LPI</u>

Level 14, 135 King Street, Sydney 2000 GPO Box 4103 Sydney NSW 2001 DX 967 Sydney

Summary of Owners Report

Sydney

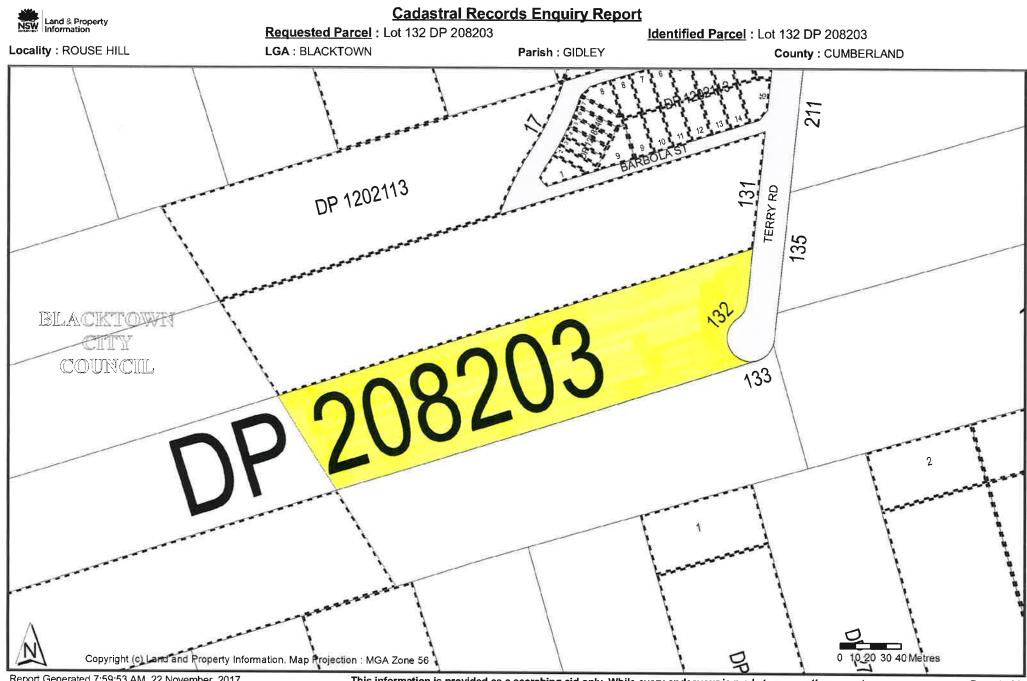
Address: 54 Terry Road, Rouse Hill

Description: - Lot 132 D.P. 208203

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
19.11.1901 (1901 to 1948)	Edwin Stephen Rouse (Esquire)	Vol 1381 Fol 133
14.10.1948 (1948 to 1953)	Nina Beatrice Terry (Married Woman) (Application by Transmission not investigated)	Vol 1381 Fol 133
19.06.1953 (1953 to 1960)	Richard Willoughby Aston Pubsey-Dawson (Grazier)	Vol 1381 Fol 133 Now Vol 6710 Fol 107
15.01.1960 (1960 to 1962)	Roderick Buchanan Rouse Terry (Farmer) Edwin Terrence Terry (Farmer) Gerald George Terry (Farmer)	Vol 6710 Fol 107 Now Vol 9433 Fol 62
04.08.1962 (1962 to 1970)	Alexander Clarke (Fitter) Betty Kathleen Clarke (Married Woman)	Vol 9433 Fol 62
08.07.1970 (1970 to 1986)	Francesco Leuzzi (Bootmaker) Francesca Leuzzi (Married Woman) Giuseppe Leuzzi (Bootmaker)	Vol 9433 Fol 62
29.04.1986 (1986 to 1987)	Christopher Vincent Goodsell	Vol 9433 Fol 62
17.03.1987 (1987 to 1993)	Christopher Vincent Goodsell Peter Stephen Goodsell	Vol 9433 Fol 62 Now 132/208203
06.12.1993 (1993 to Date)	# Terrence John Fitzgerald # Wendy Patricia Fitzgerald	132/208203

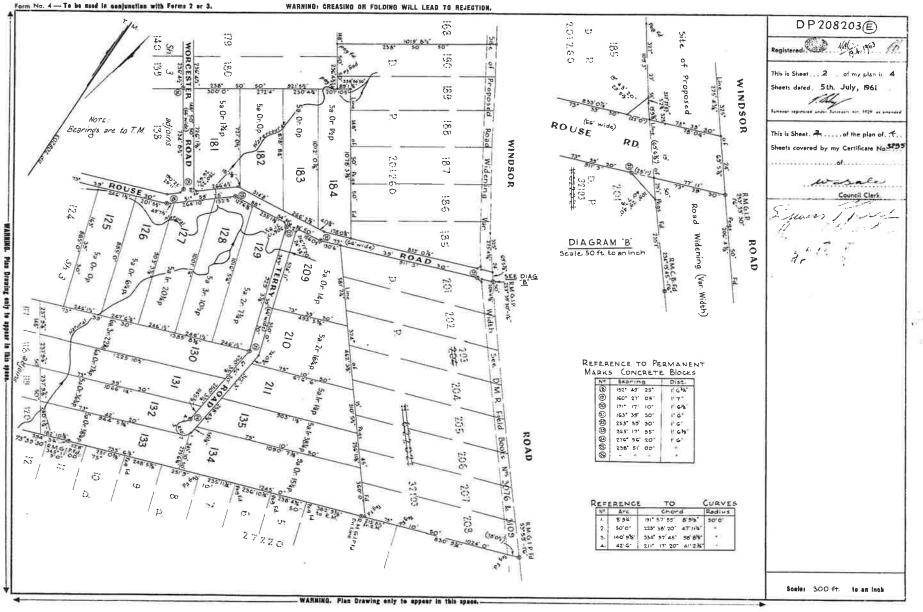
Denotes Current Registered Proprietors

Easements & Leases - NIL



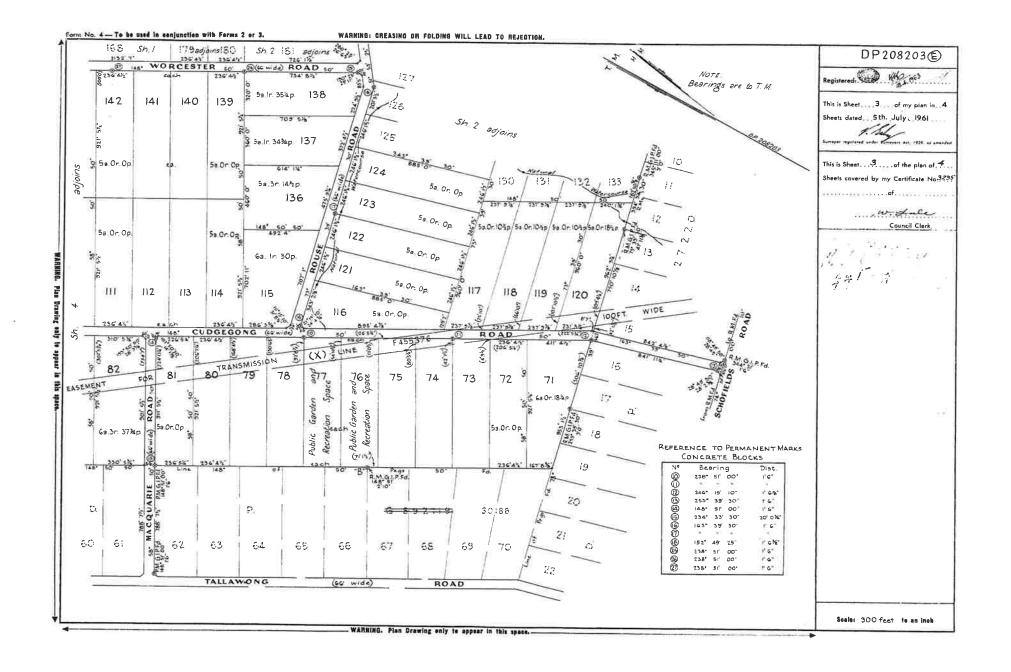
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Page 1 of 3

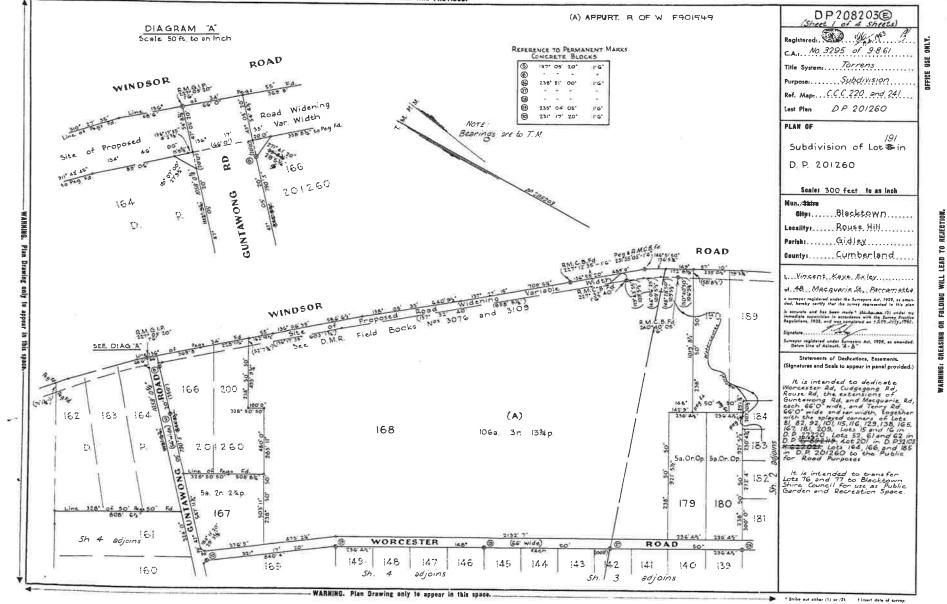


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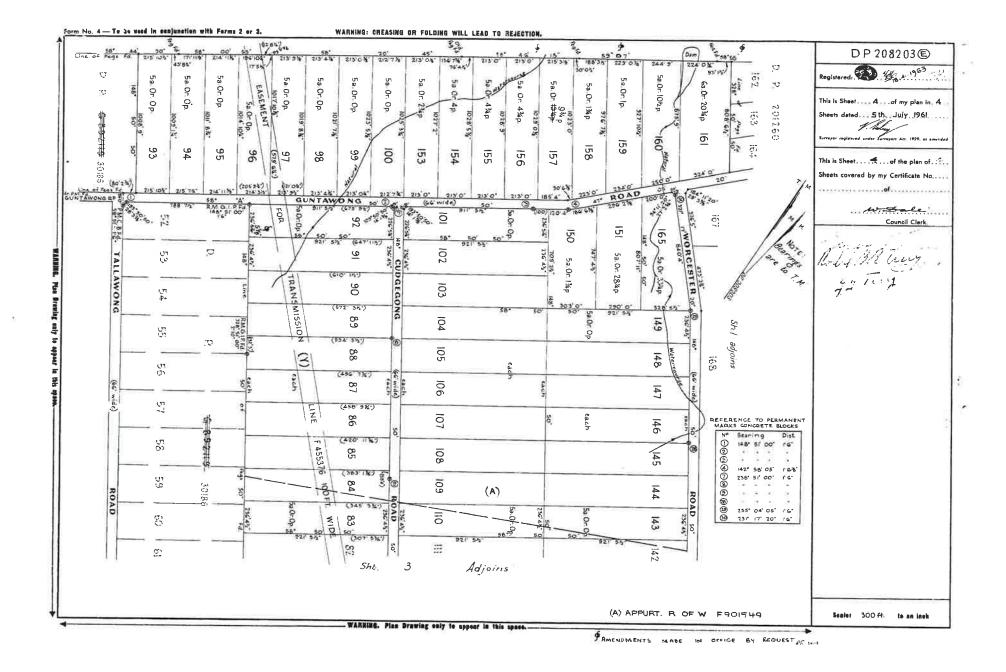






Form 3 - TO BE USED WHERE DEDICATIONS, DRAINAGE RESERVES AND PUBLIC GARDEN AND RECREATION SPACES ARE PROVIDED.





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vo

DP208203 C Sheet 1 of 4 sheets) SIGNATURES AND SEALS ONLY. $g \approx$ ONLY. C.A. NO 3295 of 9861 A CARLER AND A USE Title System: Torrens 44 1 DFFIOE Purpose: Subdivision Ref. Map. C.C.C. 220 and 241 Lest Plan DP 201260 PLAN OF 191 Subdivision of Lot & in D. P. 201260 Soales 300 feet to an Inch Maa./Skips Sity Blacktown **REJECTION** Localityr Rouse Hill Parisht. Gidley 2 County: Cumberland LEAD _ 1....Vincent. Kaye. Exley..... WILL of. 48. Macquorie St., Perrometta FOLDING a surveyor registered under the Surveyors Act, 1929, as anon-died, hereby certify that the survey regressived in this plac is any other and has been made . Given and 12 works and immediate separations is associations with the Sorrey Particle Regulations, 1922, and we completed as 12(0), July 1999. Separators 5 CREASING Surveyor replaced ander Surveyors Act. 1929, as amanded Datum Una at Aslandh. X - 5 Statements of Dedications, Easements. (Signatures and Seals to appear in panel provided, jing, It is intended to dedicate Worcester Rd. Gudgegong Rd. Rouze Rd. the extensions of Gurterong Rd. and Mecquarie Rd. GeO wide and ren midth. together with the splayed corners at lets 81, 82, 92, 101, 115, 116, 129, 138, 165, 167, 181, 203, Lots 15 and 16 in D. P. <u>Cr3202148</u>, Act 201 in D. P. 2012 IC 202148, Act 201 in D. P. 2012 IC 202148, Lots 164, 166, and 85 in D. R. 201260 to the Public for Road Purposes WARN : . 3 I hereby scriffy that the requirements of the local Government Act, 1916 (ather than the requirements for registerition of plant), here been complied with by the applicant in relation to the proposed sub-division and service(r) as out \rightarrow in. It is intended to transfer Lots 76 and 77 to Blacktown Shire Council for use as Public Garden and Recreation Space. 20 Subdivision No. 3295 Dr. 9-8-1961 5 Council Clark M. Co ale MININTE 269 i. Approved by Council. The Common Seal of The Council of the MA 9, build P. O.S. 171. A F. B. LACKTRYAN was berounte affined on 17. The O. ST. 83 17. B. 1961 pursuant to a resolution Toma w. Spale 174 Mayner/ -> * Strike out either (1) or (2). | insert date of survey.

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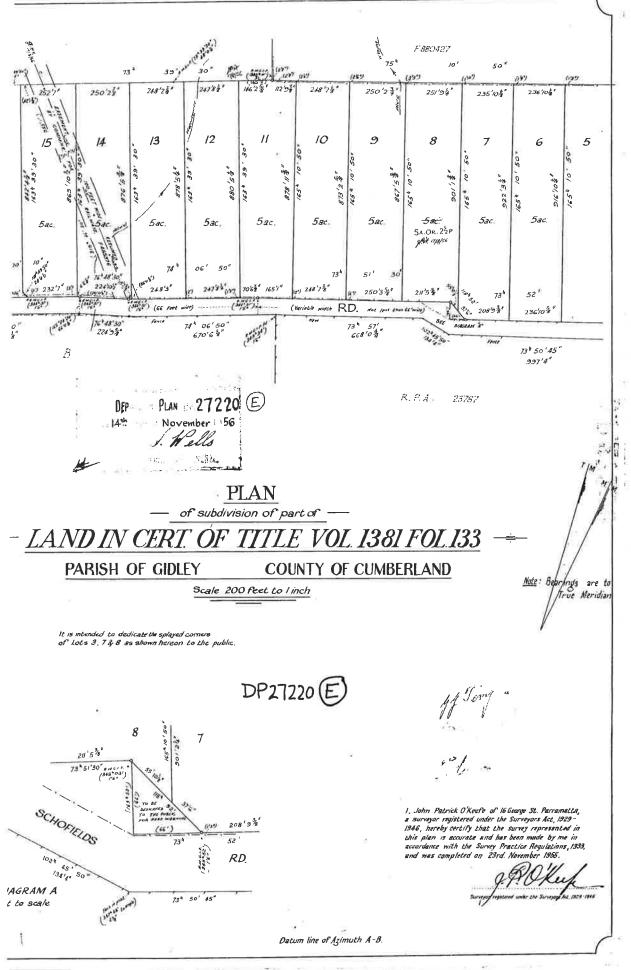
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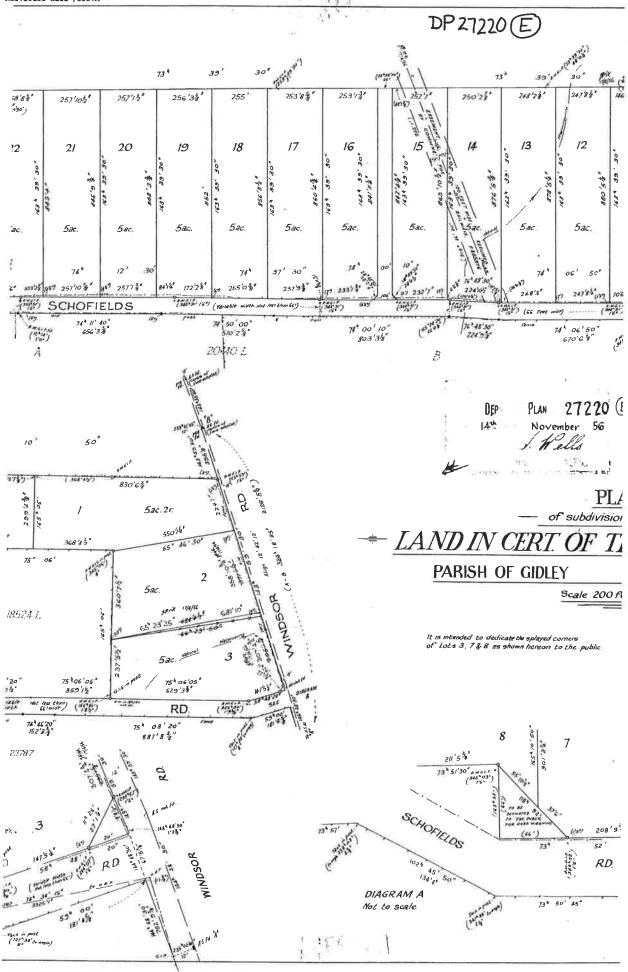
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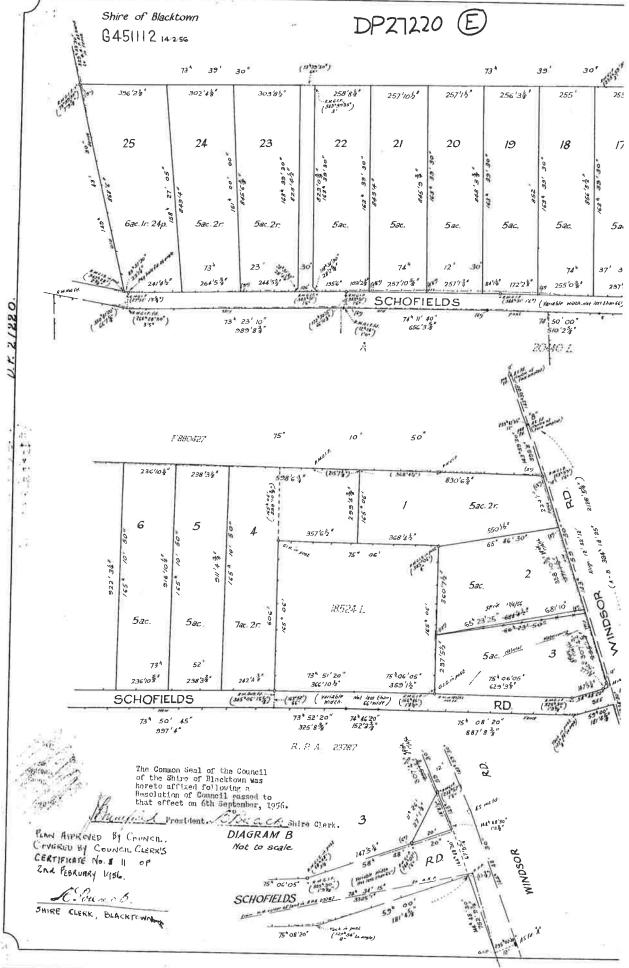
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Req:R728335 /Doc:CT 09433-062 CT /Rev:11-Feb-2011 /Sts:OK.SC /Pgs:ALL /Prt:20-Nov-2017 15:14 Ref:rouse hill /Src:M *N*HABIN IFICATE OF TITLE M NEW SOUTH WALES ERTY ACT, 1900, as amended. (For Grant and title reference prior to first edition see Deposited Plan.) 94 33Fol 6. Vol -1st Edition issued 14-5-1963 Fol. 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. 00 -ALIKE C 617 1 Blailey d. Witness Registrar-General. WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE PLAN SHOWING LOCATION OF LAND SEE AUTO FOLIO Vol. 52 128 a 185 (Poge 5 33 5 ŝ (B IND80P 203 5a. 0r. **OR ANY NOTIFICATION HEREON** 88 ROUSE di4 RD NINDBOD В ŝ 0° 84 ğ ~ 50 Nidening ROAD (ver wideh) 201 3 104 1 207 PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE 110 20 35 指 130 REFERENCE TO PER ü 7 Dist ヨーマージガ 23 204 0000000 È 100 132 135 205 ROAU 133 TO SEA 206 2 25 207 6 D 177 208 10 2 220 S ESTATE AND LAND REFERRED TO 132 Estate in Fee Simple in lot in Deposited Plan 208203 at Rouse Hill in the Municipality of Blacktown Parish of Gidley and County of Cumberland. FIRST SCHEDULE (Continued overleaf) -RODERICE BECHAMAN ROUSE-TERRY, EDWIN TERENCE TERRY CERAID CRORGE TERRY Rouse H411 Formora. atas Registrar General SECOND SCHEDULE (Continued overleaf) L. Reservations and conditions, if any, contained in the Grown Grant(s) referred to in the said Deposited Planpart-of CL 91 029 $b \mathbf{v}$ footing the tho lond Volumo docoribed-formerly 7988 Folio-36ed in Cortificato of Titlo Entered_1--1956 Withdraw 182006 Registrar General NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED.

FIRST SCHEDULE (continued)								
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Information Provided Through John McLaren & Co (NSW) Ph. 02 9231 4872 Fax. 02 9233 6557

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE ------20/11/2017 3:14PM

FOLIO: 132/208203

First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 9433 FOL 62

	Recorded	Number	Type of Instrument	C.T. Issue
	4/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
	20/5/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
1	11/11/1993		AMENDMENT: LOCAL GOVT AREA	
	6/12/1993	1849904	TRANSFER	
	6/12/1993	1849905	MORTGAGE	EDITION 1
	1/3/1999	5634806	DISCHARGE OF MORTGAGE	
	1/3/1999	5634807	MORTGAGE	EDITION 2

*** END OF SEARCH ***

rouse hill

PRINTED ON 20/11/2017

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Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 132/208203

SEARCH DATE	TIME	EDITION NO	DATE
22/11/2017	7:59 AM	2	1/3/1999

LAND

LOT 132 IN DEPOSITED PLAN 208203 AT ROUSE HILL LOCAL GOVERNMENT AREA BLACKTOWN PARISH OF GIDLEY COUNTY OF CUMBERLAND TITLE DIAGRAM DP208203

FIRST SCHEDULE

TERRENCE JOHN FITZGERALD WENDY PATRICIA FITZGERALD AS JOINT TENANTS

(T I849904)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 J182006 COVENANT
- 3 5634807 MORTGAGE TO CITIGROUP PTY LIMITED

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

rouse hill

PRINTED ON 22/11/2017

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.