

Moorebank Intermodal Terminal Project Environmental Impact Statement Appendix A – Phase 2 ESA Appendices

October 2014





Technical Paper 5 Environmental Site Assessment (Phase 2)



Contents of the EIS

EIS Summary

VOLUME 1

VOLUME 11

Chapter 2 Chapter 3 Chapter 4 Chapter 5 Chapter 6 Chapter 7 Chapter 8 Chapter 9 Chapter 10 Chapter 11 Chapter 12 Chapter 13 Chapter 14	 Introduction Site context and environmental values Strategic context and need for the Project Planning and statutory requirements Stakeholder and community consultation Project development and alternatives Project built form and operations Project development phasing and construction Project sustainability Impact assessment approach Traffic, transport and access Noise and vibration Biodiversity Hazards and risks Contamination and soils
Chapter 17 Chapter 18 Chapter 19 Chapter 20 Chapter 21 Chapter 23 Chapter 23 Chapter 23 Chapter 24 Chapter 25 Chapter 26 Chapter 27 Chapter 28 Chapter 29 Chapter 30	 Hydrology, groundwater and water quality Local air quality Regional air quality Greenhouse gas assessment Aboriginal heritage European heritage Visual and urban design Property and infrastructure Social and economic impacts Human health risks and impacts Waste and resource management Cumulative impacts Environmental management framework Environmental risk analysis Project justification and conclusions References
Appendix B Appendix C Appendix D Appendix E Appendix F Appendix G Appendix H Appendix I	 EIS Project team EIS guidelines and requirements Compliance with the Georges River REP principles Consultation information, materials and outcomes MCA criteria relating to Project objectives Layouts of shortlisted Project alternatives Peer review endorsement letters Provisional EMPs Environmental record of Proponent Compliance with Schedule 1, Part 1 and 2 of the

(NSW) Environmental Planning and Assessment

Regulation 2000 Appendix K - Tenure history of the Project site

TECHNICAL PAPERS

EIS Volume 3

- 1 Traffic and Transport Impact Assessment
- 2 Noise and Vibration Impact Assessment

EIS Volume 4

- 3 Ecological Impact Assessment (with associated Biodiversity Offset Strategy)
- 4 Preliminary Risk Assessment

EIS Volume 5a

5 - Environmental Site Assessment (Phase 2)

EIS Volume 5b

5 - Environmental Site Assessment (Phase 2) Appendices C to F

EIS Volume 6

- 6 Surface Water Assessment
- 7 Local Air Quality Impact Assessment
- 8 Regional Air Quality Impact Assessment
- 9 Greenhouse Gas Assessment

EIS Volume 7

10 - Aboriginal Heritage Impact Assessment

EIS Volume 8

- 11 European Heritage Impact Assessment
- 12 Visual Impact Assessment

EIS Volume 9

- 13 Light Spill Impact Assessment
- 14 Social Impact Assessment
- 15 Human Health Risk Assessment
- 16 Health Impact Assessment

VOL LIME 2

Contents

VOLUME 1A – MAIN VOLUME

Declaration

Glossary and abbreviations

Executive summary

Chapter 1	Introduction
Chapter 2	Site context and environmental values
Chapter 3	Strategic context and need for the Project
Chapter 4	Planning and statutory requirements
Chapter 5	Stakeholder and community consultation
Chapter 6	Project development and alternatives
Chapter 7	Project built form and operations
Chapter 8	Project development phasing and construction
Chapter 9	Project sustainability
Chapter 10	Impact assessment approach
Chapter 11	Traffic, transport and access
Chapter 12	Noise and vibration
Chapter 13	Biodiversity
Chapter 14	Hazards and risks
Chapter 15	Contamination and soils

VOLUME 1B – MAIN VOLUME

- Chapter 16 Hydrology, groundwater and water quality
- Chapter 17 Local air quality
- Chapter 18 Regional air quality
- Chapter 19 Greenhouse gas assessment
- Chapter 20 Aboriginal heritage
- Chapter 21 European heritage
- Chapter 22 Visual and urban design
- Chapter 23 Property and infrastructure
- Chapter 24 Social and economic impacts
- Chapter 25 Human health risks and impacts
- Chapter 26 Waste and resource management

- Chapter 27 Cumulative impacts
- Chapter 28 Environmental management framework
- Chapter 29 Environmental risk analysis
- Chapter 30 Project justification and conclusions
- Chapter 31 References

VOLUME 2 – APPENDICES

Appendix A	EIS Project team
Appendix B	EIS guidelines and requirements
Appendix C	Compliance with the Georges River Regional Environment Plan (REP) principles
Appendix D	Consultation information, materials and outcomes
Appendix E	MCA criteria relating to Project objectives
Appendix F	Layouts of shortlisted Project alternatives
Appendix G	Peer review endorsements
Appendix H	Provisional EMPs
Appendix I	Environmental record of Proponent
Appendix J	Compliance with Schedule 1, Part 1 and 2 of the <i>Environmental Planning and Assessment Regulation 2000 (NSW)</i>
Annondix K	Tenure history of the Project site

Appendix K Tenure history of the Project site

VOLUME 3

Technical Paper 1	Traffic and Transport Impact Assessment
Technical Paper 2	Noise and Vibration Impact Assessment

VOLUME 4

Technical Paper 3	Ecological Impact Assessment (with associated Biodiversity Offset Strategy)
Technical Paper 4	Preliminary Risk Assessment

VOLUME 5A

Technical Paper 5 Environment Site Assessment (Phase 2)

VOLUME 5B

Technical Paper 5 Environment Site Assessment (Phase 2) – Appendices C-F

VOLUME 6

Technical Paper 6	Surface Water Assessment
Technical Paper 7	Local Air Quality Impact Assessment
Technical Paper 8	Regional Air Quality Impact Assessment
Technical Paper 9	Greenhouse Gas Assessment

VOLUME 7

Technical Paper 10 Aboriginal Heritage Impact Assessment

VOLUME 8

Technical Paper 11 European Heritage Impact Assessment Technical Paper 12 Visual Impact Assessment

VOLUME 9

Technical Paper 13	Light Spill Impact Assessment
Technical Paper 14	Social Impact Assessment
Technical Paper 15	Human Health Risk Assessment
Technical Paper 16	Health Impact Assessment

Appendix A

Phase 2 ESA data



Please refer to CD

Appendix B

Phase 1 ESA



Moorebank Intermodal Company

Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal

9 July 2014





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Author, Review	wer and Approver details		
Prepared by:	Yung Kho	Date: 09/07/2014	Signature:
Reviewed by:	Lisa Powell	Date: 09/07/2014	Signature:
Approved by:	Anthea Sargeant	Date: 09/07/2014	signature: Afarigeant

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Parsons Brinckerhoff Australia Pty Limited

ABN 80 078 004 798

Level 27 Ernst & Young Centre 680 George Street Sydney NSW 2000 GPO Box 5394 Sydney NSW 2001 Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 www.pbworld.com

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Contents

Page number

Abbr	previations		
Exec	Executive summary		
1.	Introduction		1
	1.1 1.2	Background Objectives	1 1
2.	Scope	e of works	3
3. Background information		round information	5
	3.1 3.2 3.3 3.4	Site location Site history review Summary of previous investigations Additional environmental reports	5 5 6 9
4.	Physic	cal setting	11
	4.1	Subsurface setting	11
5.	Site history 15		15
6.	Potential for contamination 2		21
7.	7. Conceptual site model		25
	7.1	Geology summary	25
8.	Data gaps		29
9.	Conclusions		31
	9.1	Recommendations	32
10.	Limita	tions	33
11.	References 35		

List of tables

Page number

Table 3.1	Summary of USTs within the IMT site	7
Table 4.1	Groundwater database summary	12
Table 5.1	Titles search summary	15
Table 5.2	S149 search summary	15
Table 5.3	Historical aerial photograph summary	17
Table 5.4	Historical aerial photograph summary, surrounding land use	18
Table 6.1	Potential contaminant sources/contaminants	22

List of appendices

- Appendix A Figures
- Appendix B Acid sulfate soils risk map (ASRIS)
- Appendix C NSW Water information registered groundwater bore search
- Appendix D Certificates of title
- Appendix E Section 149 certificates
- Appendix F NSW EPA Notice records
- Appendix G Hazardous chemical records provided by Defence
- Appendix H Aerial photographs
- Appendix I Site photographs
- Appendix J Contaminants of concern risk matrix

Abbreviations

Abbreviation	Description
ACM	asbestos containing materials
AEC	Areas of Environmental Concern
ANZECC	Australian and New Zealand Environment and Conservation Council
AFFF	aqueous film forming foam
AHD	Australian Height Datum
AST	above ground storage tank
BTEX	Benzene, Toluene, Ethyl Benzene, Xylene
C ₆ –C ₉	light hydrocarbon chain groups (for example, petrol)
C_{10} - C_{14}	medium hydrocarbon chain groups (for example, kerosene)
C ₁₅ -C ₂₈	heavy hydrocarbon chain groups (for example, diesel)
C ₂₉ –C ₃₆	heavy hydrocarbon chain groups (for example, lube oil)
CE	combat engineering
COC	chain of custody
CoC	contaminants of concern
CHC	chlorinated hydrocarbons
COPC	contaminants of potential concern
C-RAT	contaminant risk assessment tool
CS gas	o-chlorobenzylidene malononitrile
DCE	Dichloroethene
DECCW	Department of Environment, Climate Change and Water (NSW)
DIDS	Defence Integrated Distribution System
DNSDC	Defence National Support and Distribution Centre
Defence	Department of Defence
DQO	data quality objective
EHC	environmentally hazardous chemicals
EOW	explosive ordnance waste
EPA	Environment Protection Authority (now incorporated in the DECCW)
FTA	fire training area
GPR	ground penetration radar
GPT	gross pollutant trap
GWS	Glenfield Waste Services
ha	hectares

IMT	Intermodal Terminal
LGA	local government area
m	metres
m BGL	metres below ground level
mg/kg	milligram per kilogram (or part per million).
mg/L	milligram per litre (or part per million).
NBC	Nuclear, Biological and Chemical
NEPM	National Environmental Protection Measure
NSC	no significant change
OCPs	organochlorine pesticides
OPPs	organophosphorus pesticides
PAHs	oolycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PBIL	phytotoxicity-based investigation levels
PQL	Practical Quantitation Limit (of chemical concentration).
RAP	remediation action plan
SAQP	sampling, analysis and quality plan
SME	School of Military Engineering
SMP	site management plan
STP	sewage treatment plant
TCE	trichloroethene
TPH	total petroleum hydrocarbon
VOC	volatile organic compounds
UST	underground storage tank
UXO	unexploded ordnance

Executive summary

Introduction

Moorebank Intermodal Company (MIC) commissioned Parsons Brinckerhoff Pty Ltd (Parsons Brinckerhoff) to undertake a Phase 1 environmental site assessment (ESA) for Moorebank Barracks and Steele Barracks occupied and owned by the Department of Defence (Defence), located adjacent to Moorebank Avenue and east of the Georges River, Moorebank NSW (the Moorebank IMT site).

The Phase 1 ESA was completed to assess the potential contamination issues with the purpose of evaluating the feasibility of the future proposed use as the Moorebank Intermodal Terminal (IMT). The primary function of the IMT is to be a transfer point in the logistics chain for shipping containers and to handle both international IMEX cargo, and domestic interstate and intrastate (regional) cargo. The aims are to increase Sydney's rail freight mode share including: promoting the movement of container freight by rail between Port Botany and western and south-western Sydney; and to reduce road freight on Sydney's congested road network.

The Moorebank IMT Project (the Project) includes a rail link connecting the Moorebank IMT site to the Southern Sydney Freight Line (SSFL) and road entry and exit points from Moorebank Avenue. At the time of preparing this Phase 1 ESA for the Moorebank IMT site, three separate rail access options are also being considered, which are:

- northern rail access option with rail access from the north-western corner of the Moorebank IMT site, passing through the former Casula Powerhouse Golf Course (which is currently owned by Liverpool City Council (LCC)) and crossing the Georges River and floodplain;
- central rail access option with rail access from the centre of the western boundary of the Moorebank IMT site, passing through Commonwealth land on the western bank of the Georges River (referred to as the 'hourglass land'); and
- southern rail access option rail access from the south-western corner of the Moorebank IMT site, passing through the Glenfield Landfill site (owned by Glenfield Waste Services) and crossing the Georges River and floodplain.

The Moorebank IMT site forms the study area investigated in this Phase 1 ESA report. Separate reports have been prepared for each of the three rail access options.

The scope of work for the Phase 1 ESA comprised a review of aerial photographs, council records, public registers, geological and hydrological information and previous reports containing environmental information pertaining to the Moorebank IMT site provided by Defence, a site inspection and the preparation of this Phase 1 ESA report.

Site description and setting

The Moorebank IMT site is roughly rectangular in shape covering a total area of approximately 220 ha and is owned and currently used by Defence as Moorebank Barracks and Steele Barracks incorporating the School of Military Engineering (SME).

The Moorebank IMT site surface is generally flat and is underlain by alluvial sands, silts and clays overlying shale of the Wianamatta Group and Hawkesbury Sandstone. The Georges River flows to the north along the western boundary of the Moorebank IMT site. The M5 South Western Motorway extends east to west, north of the Moorebank IMT site, and a landfill is located south-west on the west side of the Georges River.

Based on the findings of previous investigations, it is inferred that groundwater flow beneath the Moorebank IMT site is towards the west in the direction of the Georges River.

Site history

Based on a review of aerial photographs, the Moorebank IMT site has been used for Defence purposes since the 1940s. Surrounding land use has evolved from vacant bushland to residential, commercial and industrial uses from the 1970s until present day.

Based on historical and current site uses and a review of previous environmental reports, the key contaminants of concern include total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), heavy metals, polychlorinated biphenyls (PCBs), trichloroethene (TCE), volatile organic compounds (VOCs), asbestos, fire fighting foams (such as aqueous film forming foams (AFFF)) and compounds associated with explosives and munitions.

Site conceptual model summary

Based on the IMT site history and contaminants of potential concern, the potential for site contamination is considered to be associated with the following sources:

- buried wastes and waste stockpiles including asbestos containing materials (ACM) and imported fill;
- leaks from the storage/use of fuels, waste oils and hazardous chemicals;
- the presence of building materials containing asbestos;
- residual contamination from buried munitions and practice ordnance;
- potential contamination from offsite sources which may have migrated onsite through surface water or groundwater flows; and
- ongoing site operations including the use of heavy earth moving machinery in the 'dust bowl' training area, bridging yard activities and fire fighting related training activities.

Potential pathways and receptors are considered to include:

- leaching and migration of contaminants horizontally and/or vertically into underlying groundwater and migration into the Georges River;
- surface water flow/ lateral migration of contaminated water through preferential pathways to the Georges River;
- direct contact with soils, surface water or groundwater (dermal contact, ingestion and inhalation) by construction/utility workers, site users and future land users;
- direct contact with surface water or groundwater (dermal contact and ingestion) via pumping to other areas of the IMT site or through registered domestic bores that have been identified offsite;
- migration of airborne dust to on and offsite receptors via dermal contact, ingestion and inhalation;
- vapour migration from soil or groundwater to onsite and offsite users/workers via inhalation; and
- Georges River via groundwater and surface water migration and migration to ecologically sensitive receptors and recreational users downstream.

Previous site contamination investigations conducted at the IMT site have identified localised areas of contamination including asbestos containing fill, TPH and heavy metals in soil and groundwater, and TCE in groundwater.

Based on the review of available environmental reports, it is considered that limited remediation and site management is likely to be required for development of the IMT site for an industrial end use as an IMT.

To develop appropriate environmental and remediation measures it is recommended that additional intrusive soil and groundwater investigation works (Phase 2 ESA) be completed to augment the existing site data and to minimise spatial data gaps.

1. Introduction

1.1 Background

Moorebank Intermodal Company (MIC) commissioned Parsons Brinckerhoff Pty Ltd (Parsons Brinckerhoff) to undertake a Phase 1 environmental site assessment (ESA) for the proposed Moorebank Intermodal Terminal (IMT) located adjacent to Moorebank Avenue, Moorebank, NSW (the Moorebank IMT site).

The Moorebank IMT Project (the Project) includes a rail link connecting the site to the Southern Sydney Freight Line (SSFL) and road entry and exit points from Moorebank Avenue. The primary function of the IMT is to be a transfer point in the logistics chain for shipping containers and to handle both international IMEX cargo, and domestic interstate and intrastate (regional) cargo. The key aims are to increase Sydney's rail freight mode share including: promoting the movement of container freight by rail between Port Botany and western and south-western Sydney; and to reduce road freight on Sydney's congested road network.

Currently, the Moorebank IMT site is largely occupied by the Department of Defence's (Defence) School of Military Engineering (SME). It covers an area of approximately 220 ha and is legally identified as three lots:

- Lot 100 DP 1049508 the northern area of the IMT site, south of ABB Transmissions Pty Ltd (ABB) facility (approximately 5.3 ha);
- Lot 101 DP 1049508 the northern area of the IMT site, east of ABB facility adjacent to Moorebank Avenue (approximately 4 ha); and
- Lot 3001 DP 1125930 the main IMT site (approximately 185 ha).

The rail connection between the IMT site and the SSFL are currently being considered. The three rail access options comprise:

- Northern rail access option (Lot 10 DP 881265) with rail access from the north-western corner of the IMT site, passing through the former Casula Powerhouse Golf Course (which is currently owned by Liverpool City Council (LCC)) and crossing the Georges River and floodplain.
- Central rail access option (Lot 4 DP1130937) with rail access from the centre of the western boundary of the IMT site, passing through Commonwealth land on the western bank of the Georges River (referred to as the 'hourglass land').
- Southern rail access option rail access from the south-western corner of the IMT site, passing through the Glenfield Landfill site (owned by Glenfield Waste Services) and crossing the Georges River and floodplain. This option comprised five parcels of land identified as Lot 5 DP 833516, Lot 51 DP 515696, Lot 52 DP 517310 and Lots 103 and 104 DP 1143827.

The IMT site forms the study area investigated in this report. Separate reports have been prepared for each of the three rail access options.

1.2 Objectives

The objectives of the Phase 1 ESA are to:

- assess the IMT site history and historical site uses;
- identify areas of environmental concern and associated contaminants of concern;
- assess the potential for the contamination identified to impact human health or environmental receptors at the IMT site;

- provide recommendations for additional intrusive works required to complete the site assessment; and
- provide a general evaluation of the feasibility of the Project based on potential environmental constraints identified at the IMT site.

2. Scope of works

The scope of works for the Phase 1 ESA consisted of a desktop review and site walkover that included the following tasks:

- identification of the study area, including location of surrounding infrastructure, area, boundaries and title descriptions;
- a review of aerial photographs for the IMT site and surrounding area;
- a review of environmental reports available for the area to identify potential data gaps;
- a review of historical land titles;
- a review of the local geology, hydrology and hydrogeology;
- a site inspection to establish current site conditions;
- preparation of this Phase 1 ESA report; and
- evaluation of the works necessary to fill data gaps identified to make an assessment of suitability for the proposed development.

3. Background information

3.1 Site location

The IMT site is located approximately 30 km south-west of Sydney between Liverpool and Campbelltown along the Georges River, west of Moorebank Avenue and the Defence National Support and Distribution Centre (DNSDC) and south of the M5 South Western Motorway. The location is presented in Figure 1 (Appendix A).

The main access road is from Moorebank Avenue which runs north to south on the eastern side of the IMT site.

The IMT site comprises two main areas, the northern portion known as the Moorebank Barracks and the southern portion known as the Steele Barracks, which houses the SME. Surrounding land use consists of:

- north factory and warehouse facilities (ABB Transmissions Pty Ltd) with the M5 South Western Motorway and industrial, commercial and residential land beyond;
- east Moorebank Avenue and the DNSDC facility and Wattle Grove residential area beyond;
- south Defence owned land including an explosives confidence range, practice mine fields and training areas with the East Hills Railway Line and Cambridge Avenue beyond;
- south-west former quarry and current Glenfield Waste Services (GWS) landfill and waste transfer station across the Georges River with residential development beyond; and
- west a decommissioned diesel fuelled power station (now the Casula Powerhouse Arts Centre) on the Western Bank of the Georges River, the Casula railway station and residential properties beyond.

These areas and surrounding features are shown in Figure 2 (Appendix A).

3.2 Site history review

A review of available historical and current site information was undertaken to evaluate the environmental sensitivity and potential contamination concerns at the site. The site history review included the following tasks:

- a review of previous reports and background information provided by Defence pertaining to the historical uses and environmental conditions;
- a review of regional and local geological and hydrological information including topographic maps, geological maps and local registered groundwater bore records; and
- a site inspection to evaluate current conditions of contaminated areas previously identified, to identify surrounding land uses which may have the potential to cause contamination onsite.

3.3 Summary of previous investigations

As part of the Phase 1 ESA, the following reports were provided to Parsons Brinckerhoff by Defence:

- Dames and Moore, Environmental Management Plan (1996);
- Egis Consulting Australia (ECA), Stage 1 Preliminary Site Investigation (2000);
- HLA Envirosciences, Preliminary Groundwater Study, Moorebank Defence Land (2003);
- GHD, Groundwater Investigation of the North Western Portion of the Moorebank Defence Land (2004);
- GHD, Proposed Intermodal Freight Hub, Moorebank, Summary of Environmental Planning Reports (2005);
- HLA Envirosciences, AST and UST Management Plan, Volume 10, Sydney West Defence Region (2005); and
- Earth Tech, Stage 2 Environmental Investigation (2006).

A general review of these reports was undertaken. Review summaries are provided in the following sections.

3.3.1 Dames and Moore, Environmental Management Plan (1996)

An environmental audit involving a desk top study and detailed site investigation was undertaken by Dames and Moore to facilitate the development of an environmental management plan (EMP). Five areas of waste disposal, historical USTs, a former sewage treatment plant (STP) and the plant roads and airfield (PRA) yard and associated wash points were identified as areas of potential contamination. Further testing of soils in these areas was recommended.

3.3.2 Egis Consulting Australia (ECA), Stage 1 Preliminary Site Investigation (2000)

The ECA investigation consisted of a desktop review of information pertaining to Steele Barracks, Moorebank Barracks as well as the DNSDC and former Moorebank ammunition depot located to the east. Several areas within the School of Military Engineering (SME) were identified as having the potential to cause contamination including the PRA Yard, former STP, former fire training areas (FTA), the 'dust bowl' area, various waste and ordnance burial areas, the combat engineering (CE) store and the nuclear, biological and chemical (NBC) and radiac bunker and store.

3.3.3 HLA Envirosciences, Preliminary Groundwater Study, Moorebank Defence Land (2003)

This study consisted of the installation of 17 monitoring wells across Moorebank Defence lands and the sampling and analysis of groundwater from these monitoring wells. Data was used to develop a conceptual site model.

Of the 17 wells, 6 wells were within the IMT site. Concentrations of dissolved heavy metals (copper, chromium, nickel and zinc) were reported above the adopted assessment criteria in the majority of groundwater samples analysed. Elevated PAH concentrations were reported in groundwater sampled from the north-eastern corner of the Steel Barracks and trichloroethene (TCE) and cis-1,2 dichloroethene (DCE) were reported in groundwater sampled in the north-western area of the IMT site.

3.3.4 GHD, Groundwater Investigation of the North Western Portion of the Moorebank Defence Land (2004)

This investigation was undertaken to determine the source of the TCE identified by HLA in 2003. Thirteen new groundwater monitoring wells were installed in the north-west corner of the Moorebank Barracks (immediately south of the ABB boundary). TCE was identified in groundwater sampled from four of the new wells. The source of TCE was determined to be near the northern boundary. Impacts beyond the northern site boundary could not be confirmed.

3.3.5 GHD, Proposed Intermodal Freight Hub, Moorebank, Summary of Environmental Planning Reports (2005)

This report summarised the environmental and planning information compiled by the Department of Defence Property Disposal Task Force during the period 2000 to 2004. The studies were undertaken for the purpose of rezoning Moorebank from military uses to industrial, residential and conservation areas with a view to vacating the land over a period of 10 to 15 years. The studies included heritage, flora, fauna, archaeology, flooding, contamination, transport, access and potential development footprints.

Preliminary investigations found that there was potential for contamination to be present across large areas of the site. The areas of greatest risk were identified to be the Former PRA Yard and buried waste disposal areas located adjacent to the Georges River in the northern and central areas of the SME. Further intrusive investigations were recommended to confirm the type and extent of contamination present.

3.3.6 HLA Envirosciences, AST and UST Management Plan, Volume 10, Sydney West Defence Region (2005)

A review of the HLA Envirosciences (2005) AST and UST Management Plan identified several hydrocarbon storage tanks onsite within the Steele Barracks area. The findings are summarised in Table 3.1.

Location	Tank ID	Storage type	Age	Construction	Risk	Risk factors
North of Building 14	44467	Diesel	>25 years	Single steel wall	Medium	<250 m to boundary; <500 m to sensitive receptor
West of Building 23	367S_UST_006	Waste oil	>20 years	Single steel wall	Medium	<500 m to sensitive receptor
North of Building 141	367S_UST_005	Waste oil	>20 years	Single steel wall	Medium	<500 m to sensitive receptor
East of Building 16	367S_UST_004	Waste oil	>20 years	Single steel wall	Medium	<250 m to boundary
East of Building 16	367S_UST_003	Waste oil	>20 years	Single steel wall	Medium	<250 m to boundary
South of building 70	367S_UST_003	Decommissioned	·	<u>.</u>	·	·

Table 3.1 Summary of USTs within the IMT sit
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No USTs were identified to be present within the Moorebank Barracks area.

3.3.7 Earth Tech Stage 2 Environmental Investigation (2006)

Earth Tech was commissioned by the Department of Defence Corporate Services and Infrastructure Group (CSIG) to undertake a Stage 2 ESA within designated parts of the Moorebank Defence lands. Investigation areas were evaluated using a risk based approach which considered historical site uses and focussed on areas where activities that had the potential to cause contamination had occurred. Thirty-nine areas were identified as warranting further investigation. The key areas of concern are described below:

- small arms ranges, practice mine fields, explosives confidence ranges and bomb disposal training areas;
- former sewage treatment plant (STP) and sewage disposal areas;
- former fire training areas (FTAs) and dust bowl (area of land used for earth moving training);
- field engineering stores, CE store and former nuclear biological, chemical (NBC) and radiac store, bunker and warfare wing;
- former Chatham Village and Jacquinot Court (former residential barrack areas);
- various waste disposal areas including asbestos disposal pits and medical supplies disposal pits;
- Bridging Yard used for bridge building training;
- military museum and museum storage yard;
- Plants Roads and Airfield (PRA) Yard; and
- former Pickles Auction House (currently a vehicle storage shed and workshop).

Chemicals of interest included TPH, metals, BTEX compounds, asbestos, organochlorine pesticides (OCPs), organophosphate pesticides (OPPs), explosives, suspected biohazards from buried sewage and medical wastes, solvents, formaldehyde, CS gas, radiation, volatile organic compounds (VOCs) and anionic surfactants associated with aqueous film forming foams (AFFF).

An assessment of risk associated with each area of interest was undertaken using the Defence Contamination Risk Assessment Tool (C-RAT). This framework considered the likelihood and consequences of risk scenarios in the context of the potential impacts of the contamination upon human health and the environment, legislative compliance, financial implications, reputation and staff morale. Remedial or management actions were recommended for a number of areas based on historical information and the results of the Phase 2 investigation and cost estimates were prepared for various remedial options. The areas identified were:

- 25 m small arms range (Earth Tech reference 25 mSAR) where removal of surface metal waste was recommended to facilitate comprehensive UXO clearance;
- the former STP area (Earth Tech reference SW0183) where asbestos and heavy metals including mercury in soil and sediments were confirmed;
- the former FTA (Earth Tech reference SW0185) where TPH was identified in soils from 1.0–2.2 m BGL toward the northern end of the surface water drain;
- the bomb disposal training area (Earth Tech reference SW0190) where comprehensive UXO clearance was recommended;
- the waste disposal area (Earth Tech reference SW0195, D&M Area 1) where TPH contamination was identified in waste fill to 1.8 m BGL;

- the waste disposal area (Earth Tech reference SW0196, D&M Area 5) where asbestos was present in above-ground stockpiles. Asbestos was also encountered in other waste disposal areas across the IMT site and removal for offsite disposal was recommended (the development of an asbestos management plan was also recommended to manage any asbestos fill encountered during any future site development or disturbance of buried demolition wastes;
- Pickles Auction House (Earth Tech area reference SW201) where TPH contamination was identified to be present to 1.0 m BGL in the unsealed area near the southern boundary. A waste oil pit was also identified in this area and it was recommended this be removed and disposed of offsite;
- Bridging Yard where TPH contamination and elevated metals (associated with metal tailings from the grit blasting facility) were identified in soils and where two underground waste oil storage pits were identified. Recommendations were made for offsite disposal of hydrocarbon impacted soils and near surface tailings surrounding the grit blasting facility. The removal and disposal of waste oil pits from this area was also recommended;
- PRA Yard where TPH contamination in soil was confirmed. One diesel UST with associated bowser and three underground pits used as waste oil tanks were noted to be present in this area. Removal and offsite disposal of tanks was recommended following decommissioning as part of any future site development;
- CE store where it was recommended that four underground waste oil storage pits be removed for offsite disposal;
- TCE contamination was confirmed in groundwater in the north-west corner of Moorebank Barracks.
 Further investigation of this area was recommended to establish the source and extent of this contamination; and
- UXO was identified in a number of areas across the IMT site including the practice mine fields.
 Comprehensive UXO clearance was recommended for the entire site to eliminate the perceived risk associated with unexploded ordnance and explosive ordnance wastes.

A radiation survey of the areas associated with radiac storage was undertaken as part of the Earth Tech works and concluded that no radioactive sources or contaminants were present.

It was noted that additional areas of soil and groundwater contamination may be present outside of the targeted areas included as part of the investigation.

3.4 Additional environmental reports

The following environmental reports pertaining to the IMT site were identified:

- Groundwater Technology, Environmental Site Assessment (1994);
- Dames and Moore, Environmental Audit (1996);
- CMPS and F Environmental, Preliminary Environmental Investigation (1998); and
- HLA, Defence Integrated Distribution System (DIDS) Baseline Investigation (2006).

These reports were not available to Parsons Brinckerhoff for review; therefore environmental information contained in these reports has not been included in the evaluation of current site conditions.

4. Physical setting

4.1 Subsurface setting

4.1.1 Regional and local geology

The Department of Mineral Resources Penrith 1:100,000 geological series sheet 9030 showed the underlying geology consists of silts, sands and clays from quaternary fluvial deposition underlain by tertiary clayey sand and clay. The alluvial deposits overlay shales of the Wianamatta group which are typically black to dark grey shales and laminates from the Triassic period. Hawkesbury Sandstone is shown to be present in the north-western area of the IMT site near to the western bank of the Georges River.

4.1.2 Acid sulfate soils

A review of the acid sulfate soils (ASS) risk maps from the online CSIRO Australian Soil Resource Information System showed a low probability of ASS nearer the Georges River and high probability within the immediate Georges River corridor.

ASS are acidic soil horizons or layers resulting from the aeration of soil materials that are rich in iron sulfides, primarily pyrite (FeS₂). They are likely to be present in marine and estuarine sediments of the recent (Holocene) geological age, soils usually not more than five metres above mean sea level, and in marine or estuarine settings.

Landform elements in which the geomorphic processes have been suitable for the formation of ASS have been classed as having a 'high probability of occurrence'. Bottom sediments of estuaries, rivers, creeks and lakes are considered likely to be areas of high probability of ASS occurrence. Where environments have not generally been suitable for ASS formation, or where ASS is highly localised or sporadic, they have been classed as having a 'low probability of occurrence'. In general, landforms above 10 m Australian Height Datum (AHD) are classed as having no known occurrence of ASS.

Whether or not a particular land use activity will contribute to any acidification hazard in an area by exposing ASS will depend on the depth of soil disturbance, and the depth of occurrence of ASS materials. Therefore, the environmental risk associated with disturbing ASS will depend on the type of land use activity.

The ASS risk map is presented as Appendix B.

4.1.3 Topography and hydrology

A review of topographical data provided by the Department of Lands Spatial Information Exchange showed that the IMT site lies at an approximate elevation between 4 and 18 m AHD.

The lowest elevations are associated with the terraces of the Georges River. The main area of the IMT site lies at an approximate elevation of 12 to 14 m AHD.

Surface water is likely to flow to the north-west towards the Georges River with some localised flow into surface water bodies that are present onsite.

An open concrete lined drain located on the boundary between Steele Barracks and Moorebank Barracks transects from east to west and conveys some surface water runoff from the Defence National Support and Distribution Centre (DNSDC) facility to the east and from the site discharging to the Georges River via a gross pollutant trap (GPT).

4.1.4 Regional and local hydrogeology

At the IMT site groundwater is likely to be present in the alluvium and shale. Alluvial deposits occur in valleys, creeks and river beds in the region. The alluvial deposits are generally shallow, discontinuous and relatively permeable and are likely to be responsive to rainfall and stream flow. The shallow alluvium is likely to be hydraulically connected to the Georges River. Groundwater from within the alluvium is likely to sustain groundwater dependent ecosystems. Locally groundwater flow is likely to be towards the Georges River.

In contrast, groundwater within the Shale is likely to be characterised by more saline conditions. Regionally, the shale generally has a low hydraulic conductivity and thus behaves as an aquitard, restricting groundwater flow into the underlying Hawkesbury Sandstone unit. Locally, groundwater is likely to flow along the interface of the shale and alluvium following the gradient of the shale.

During the Earth Tech (2006) works, groundwater was encountered within the alluvium across the IMT site at depths ranging from 4.8 m BGL to 13.3 m BGL at elevations of between 7.7 to 16.3 m AHD. Groundwater contours calculated by Earth Tech (2006), based on gauging of 24 monitoring wells inferred a westerly groundwater flow, towards the Georges River which flows to the north along the western boundary of the IMT site.

4.1.5 Groundwater database search

A search of the NSW Office of Water licensed borehole register showed that 19 registered bores are present within a 1 km radius of the IMT site. A summary is provided in Table 4.1.

Bore ID	Authorised purpose	Approximate distance (m) and direction	Date installed	SWL (m BTOC)	Total depth (m)
GW109805	Monitoring	730 west	Jan-2007	Unknown	12
GW109799	Monitoring	410 west	Jan-2007	Unknown	22.8
GW109798	Monitoring	140 west	Jan-2007	Unknown	29.8
GW108804	Monitoring	170 west	Apr-2008	Unknown	11
GW109803	Monitoring	100 west	Feb-2009	Unknown	29.8
GW108802	Domestic	510 south-west	Apr-2008	Unknown	23.7
GW016829	Domestic	580 north-east	Feb-2058	4.2	5.4
GW016682	Waste disposal	550 east	Sep-2061	3.9	3.9
GW110395	Monitoring	100 north	Sep-2005	6.8	8.5
GW110390	Monitoring	100 north	Sep-2005	7.2	9
GW110392	Monitoring	100 north	Sep-2005	7.3	8.5
GW110387	Monitoring	100 north	Sep-2005	8	10
GW110393	Monitoring	100 north	Sep-2005	7.8	9

Table 4.1 Groundwater database summary

Bore ID	Authorised purpose	Approximate distance (m) and direction	Date installed	SWL (m BTOC)	Total depth (m)
GW110388	Monitoring	100 north	Sep-2005	7.6	10
GW110394	Monitoring	100 north	Sep-2005	9.4	10
GW110389	Monitoring	100 north	Sep-2005	7.9	10
GW110391	Monitoring	100 north	Sep-2005	7.5	8.7
GW110386	Monitoring	100 north	Sep-2005	6	8.5
GW109805	Monitoring	100 north	Jan-2007	Unknown	12

m BTOC - metres below top of casing

The majority of the monitoring bores identified are associated with ABB located north of the IMT site and GWS located to the south-west, on the eastern side of the Georges River. The two domestic bores identified are considered to be up gradient of the site based on the inferred groundwater flows reported in previous investigations.

Bore search information is provided in Appendix C for reference and a map showing the registered borehole locations is provided as Figure 6.

5. Site history

A historical land title search provided information on the ownership of the three lots within the study area and the area of land on the western bank of the Georges River understood to have been utilised by Defence in the past for training purposes. Historical land title information has been summarised in Table 5.1.

Dates	Ownership Details	
Lot 3001 DP1125930		
2006–Present	Commonwealth of Australia	
1995–2006	Defence Housing Authority	
1913–1993	Commonwealth of Australia	
1896–1913	The Church of England Property Trust Dioceses of Sydney	
Lot 100 DP1049508		
1925–Present	Commonwealth of Australia	
Lot 101 DP1049508		
1925–Present	Commonwealth of Australia	

nary
Π

Based on historical land title records, it is understood that the majority of the IMT site has been owned by the Commonwealth from 1913 to present. Title search documentation is provided in Appendix D for reference.

5.1.1 Section 149 (2) and (5) planning certificate information

Section 149 (2) and (5) planning certificates for the three lots that make up the IMT site and the area of land on the western bank of the Georges River were acquired from the Liverpool City Council. A review of this information showed that all four lots were subject to the Liverpool Local Environment Plan 2008, Liverpool Development Control Plan 2008 (as amended) and the Greater Metropolitan Regional Environment Plan No. 2 (Georges River Catchment).

Relevant information in the planning certificates reviewed by Parsons Brinckerhoff is summarised in Table 5.2 below.

Subject	Lot/DP				
Subject	3001/1125930	100/10749508	101/10749508	10/881265	
Zoning	IN1 General industrial SP2 Infrastructure – Defence	IN1 General industrial	IN1 General industrial	RE1 public Recreation SP2 Infrastructure, Classified Road	
Critical habitat	No	No	No	No	
Conservation area	No	No	No	No	
Environmental heritage	Yes	No	No	Yes	
Mine subsidence	No	No	No	No	

Table 5.2S149 search summary

Coastal Protection Act 1979	No	No	No	No
Bushfire prone land	Yes	Yes	Yes	Yes
Flood related controls	Yes	Yes	Yes	Yes
Tree preservation provisions	Yes	Yes	Yes	Yes
Notices	No	No	No	No
Environmentally significant Land	Yes	No	No	Yes
Archaeological management plan	No	No	No	No
Unhealthy building land proclamation	No	No	No	No
Matters arising to the Contaminated Land Management Act 2009	No	subject to a site audit statement	subject to a site audit statement	No
Contaminated Land	LCC provided with written information indicating presence of contamination	No	No	No

Copies of the Section 149 certificates are provided in Appendix E for reference. Further information in this regard is available from LCC's City Strategy Department or the Liverpool Local Environmental Plan 2008.

5.1.2 DECCW online notice records database search

An online search of the NSW EPA Contaminated Land Records Database returned no notice records for the Project site. One site was identified within a 5 km radius the central alignment study area that was subject to notice.

Nine records (eight former and one current) were returned for ABB Transmissions Pty Ltd (ABB) located on Bapaume Road to the North on the eastern side of the Georges River to the North of the main Moorebank IMT Site Area. Notices have been issued under Section 35 of the Environmentally Hazardous Chemicals (EHC) Act 1985. The notices dated between 1990 and 2013 detailed that the premises are reasonably believed to be affected by chemical contamination including polychlorinated biphenyl (PCB) compounds. The site is subject to an ongoing maintenance order associated with PCB contamination. A copy of the management order is in Appendix F for reference. Based on the geographical location in relation to the Phase 1 study area and separation by the Georges River, it is not considered that ABB constitutes an offsite source of contamination to the central alignment area. Copies of these notices are provided in Appendix F and are available to view via *www.environment.nsw.gov.au*.

5.1.3 Dangerous Goods Storage

As the IMT site is occupied by Defence and is Commonwealth Land, a WorkCover search was not undertaken as part of the Phase 1 ESA. Alternatively, dangerous goods listings and the hazardous substances registers from the Defence in-house Chem-Alert database were provided to Parsons Brinckerhoff by Defence for review. The following chemicals were listed to have been stored at the IMT site:

 flammable liquids – including unleaded petrol, diesel fuel, paints, methylated spirits and mineral turpentine;

- flammable gases LPG, propane, aerosols associated with cleaning, insect sprays such as fly killer, spray adhesives, oil and lube oil aerosols;
- corrosive substances batteries, sodium bisulphate and sodium hypochlorite; and
- oxidising substances calcium hypochlorite.

The HLA report (2005) included a register of underground storage tanks at the IMT site. A review of available information showed that up to six USTs are present (one of which is decommissioned) although the storage details of these are not contained within the Chem-Alert information provided. A summary of the HLA (2005) report findings is provided in section 3.3.6.

The Chem-Alert information that was provided to Parsons Brinckerhoff is provided in Appendix G.

5.1.4 Aerial photographs

Available historical aerial photographs dating back to 1930 were reviewed to assess any major changes to the IMT site and surrounding areas over time. The main features noted for the IMT site and surrounding areas in each of the photographs are summarised in Tables 5.3 and 5.4, respectively.

Table 5.3 Historical aerial photograph summary

Year	Site features
1930	Moorebank Barracks – Mostly undeveloped vacant bushland/grazing land. Moorebank Avenue is visible running north to south. A grid of buildings (possibly sheds) is present in the north-eastern corner. The pond feature in the northern area which is still present at the IMT site is also visible in this area. One small road transects the north of the IMT site from east to west. The rest of the area is characterised by small tracks/pathways. Current site features such as the east to west drainage line and the pond to the south of the drainage line are not present. Steele Barracks – Mostly undeveloped vacant bushland/grazing land with tracks and pathways. There is a square clearing visible in the northern area but no buildings are visible and site disturbance appears
	to be limited, particularly in the 'dust bowl' area which appears to be vegetated.
1956	Moorebank Barracks - No aerial available
	Steele Barracks - Significant clearing of land with the current access road layout is visible (Chatham Avenue, Litani, Ripon and Jordon Roads). The Chatham Village appears to be under construction extending north of Litani Road with numerous rectangular buildings visible in the central to western area. The southernmost area appears to be relatively undeveloped with small tracks and clearings visible. The development of Jacquinot Court can be seen. The 'dust bowl' area is clearly visible as is a cleared area in the vicinity of the current parade ground. The current playing field to the south of Chatham Avenue is also visible.
1961	Moorebank Barracks – The Pickles Auction Yard building is clearly visible with much of the north- eastern area populated with warehouse buildings and what appears to be residential barracks. Much of the vegetation in the west (south of the current ABB Facility) appears to have been cleared. The pond to the north of Bapaume Road is clearly visible.
	Steele Barracks – Not aerial available
1965	Moorebank Barracks – NSC except the ground surface in the west appears to be more disturbed compared to the previous record.
	Steele Barracks – Much of the central area is covered by buildings including Chatham Village with structures also visible to the west of the playing fields. The south-east of the IMT site (current golf course area) remains as vacant bushland with the exception on Jacquinot Court buildings. Some land clearance is visible in the south-western area. The 'dust bowl' is still clearly visible. A large excavated area is present in the central northern area of Steel Barracks (potentially waste fill area). The STP is visible including the settlement pond and two large circular structures.
1970	Moorebank Barracks – NSC except the east to west drainage line which currently exists at the IMT site is clearly visible.
	Steele Barracks – The large excavated area identified in the central area in the 1965 aerial photography is now appears to be grass covered with sparse trees. The current parade ground is visible.

Year	Site features
1978	Moorebank Barracks – NSC.
	Steele Barracks – The vegetated area in the south-eastern area of the IMT site has been cleared of vegetation to form the current golf course area. The CE store appears to be under construction.
1986	Moorebank Barracks – NSC except some additional buildings and merging of buildings plus the current pond near the eastern boundary between Bapaume and Litani Roads is visible. Steele Barracks – No aerial available.
1994	Moorebank Barracks – NSC except some additional buildings and merging of buildings.
	Steele Barracks – The Chatham Village has been demolished and now exists as a grassed area with sparse trees. Additional barracks and administrative buildings are present the east and north of Ripon and Jordan Roads, layout is much like the current site layout. Current surface water features present in the golf course area similar to present day are visible.
Current	Moorebank Barracks – NSC except, the buildings in the far north-east of the IMT site have been removed and exist as grassed area with sparse trees. Vegetated areas have become denser.
	Steele Barracks – NSC.

NSC: no significant change from previous record.

Table 5.4 Historical aerial photograph summary, surrounding land use

Year	Surrounds
1930	North – Farmland with some small buildings. ABB land is vacant.
	South – Undeveloped vacant bushland (no railway infrastructure visible).
	East – Twelve large rectangular buildings are visible in the north of the current DNSDC with the rest of this area as native bushland.
	West – Georges River which appears to be more meandering than present day and vacant land/ farmland with gullies/tributaries visible. The current Glenfield waste Services (GWS) landfill appears to be farmland. A clearing along the Liverpool to Holsworthy track is visible but not track appears to be present.
1956	North – No aerial available.
	South – Some rectangular clearings immediately south of the IMT site with vacant bushland and Cambridge Avenue beyond.
	East – DNSDC buildings reminiscent of present day layout.
	West – Vacant land with residential land use beyond, residential road networks developing. Liverpool to Holsworthy Rail line visible.
1961	North – No ABB facility or motorway present although some industrial development and residential development is visible beyond towards the north-east.
	South – No aerial available.
	East – DNSDC buildings reminiscent of present day layout.
	West – Vacant land with Initial stages of residential land use with road networks developing beyond. Liverpool to Holsworthy Rail line visible. A number of surface water ponds/tributaries are also noted on the western bank of the Georges River.
1965	North – NSC.
	South – Vacant bushland with some vegetation clearance/cutting visible immediately south of the IMT site in the vicinity of the current East Hills Line.
	East – NSC.
	West – Some quarrying activity is visible in the GWS area vacant land with increased residential development beyond.
1970	North – Large industrial building under construction visible on current ABB land with industrial buildings beyond.
	South – Vacant bushland with some vegetation clearance/cutting visible immediately south of the IMT site in the vicinity of the current East Hills Line.
	East – DNSDC buildings reminiscent of present day layout.
	West – The previously quarried area appears to be filled with water. Vacant land with increased residential development beyond.

Year	Surrounds
1978	North – NSC.
	vacant bushland with some vegetation clearance/cutting visible immediately south of the IMT site in the vicinity of the current East Hills Line.
	East – NSC.
	West – The previously quarried area appears to be filled with water. There is vacant land with increased residential development beyond.
1986	North – NSC except construction of M5 Motorway visible and more industrial units are present.
	South – No aerial available.
	East – NSC.
	West – Increased residential development.
1994	North – M5 Motorway construction appears to be complete, increased industrial development beyond.
	South – East Hills Railway Line construction visible.
	East –Some refurbished and additional buildings visible in the DNSDC. A clearing is visible in the south- east thought to be the initial development stage of the current Wattle Grove Residential area.
	West – NSC.
2010	North – NSC, except increased industrial buildings.
	South – NSC.
	East - NSC except the residential properties of Wattle Grove are visible.
	West – NSC except extensive excavated areas visible on GWS landfill area.

NSC: no significant change from previous record.

Copies of the aerial photographs are provided in Appendix H.

5.1.5 Summary of historical land use

From the historical land use records reviewed, the IMT site has been used by Defence since the 1940s with various construction, demolition and excavation evident across the IMT site over time.

Residential and industrial developments have gradually increased in the area since the 1970s with transport infrastructure increasing since the 1970s with the construction of the M5 Motorway to the north, the East Hills line to the south and the Liverpool to Holsworthy Line to the west. The DNSDC has been present since the early 1950s. Areas surrounding the IMT site can be generally characterised by industrial land with residential land use beyond.

5.1.6 Site inspection

The IMT site was inspected on 21 October 2010 by Parsons Brinckerhoff engineers and environmental scientists from the Contaminated Land Management Team accompanied by Captain Brendan Sullivan and Senior Environmental Officer Robert Kolano from the Defence Support Group.

The purpose of the site walkover and visual assessment of the IMT site and the immediate surrounding area was to observe the current condition, confirm the potential contaminant source areas and verify sensitive receptors in the near vicinity of the IMT site (e.g. surface water bodies, drinking water bores etc.). The site walkover targeted the following areas:

- past site infrastructure including past chemical storage areas and possible underground services or storage tanks (if any);
- areas visually impacted by contamination including the presence of asbestos containing materials (ACMs) and areas of imported fill; and
- surrounding land uses that may have the potential to cause contamination impacts to the IMT site.

During the walkover it was possible to locate some of the monitoring wells that were drilled as part of the previous environmental investigation works at the IMT site.

A number of past and present land uses were identified during the site walkover with the potential to have caused contamination. These are detailed in the following section.

Photographs depicting the current site conditions are presented in Appendix I.

6. Potential for contamination

Based on the review of background information, a number of potential past and present sources of contamination have been identified which have the potential to impact soil and/or groundwater at the IMT site.

The areas of environmental concern and associated contaminants of potential concern (CoPC) are summarized below in Table 6.1. The areas of potential concern that have been identified may present environmental constraints to the development of the IMT site depending on the final project design. A matrix describing each area in more detail is provided in Appendix J.

Based on currently available site information, the areas of environmental concern identified have been ranked as follows:

- low risk areas (green) characterised by administrative/residential buildings including officer's mess, military museum, library, parade ground, sports grounds and the golf course;
- medium risk areas (amber) considered to be areas of known or suspected waste fill, drainage lines and engineering stores currently or historically used for hazardous chemical storage and portions of the IMT site associated with munitions (including bomb disposal, fire training and practice mine field areas); and
- high risk areas (red) characterised by fuel storage/use (including known and suspected USTs), and areas of plant and vehicle storage and maintenance.

These risked ranked areas are shown in Figure 5.

Table 6.1 Potential contaminant sources/contaminants

Area	Investigation area	Details	СоРС	Risk rank
1	ABB Power Transmissions boundary area	Eight notices have been identified for the ABB facility via contaminated land public registers that state that the ABB premises are contaminated by chemical wastes including PCBs.	TPH, BTEX, PAH, SVOCs, VOCs metals, PCBs.	High
2	Vehicle storage/maintenance area (former Pickles auction house)	Potential contamination of soil/groundwater associated with vehicle and plant maintenance/storage. A vehicle wash bay and associated drainage pit exists in the area. A non-operational UST is also present in the north-west corner of this area.	TPH BTEX VOC, PAHs	High
3	Drainage line outflow	Potential area of buried demolition wastes containing asbestos in the vicinity of the drainage line outlet. Possible PCB and DCE contamination from up gradient drainage pathways.	Asbestos, TPH, Metals, PCBs, TCE, DCE	Medium
4	Former sewage treatment plant (STP)	Stockpiles of demolition rubble overgrown by grass associated with the demolished STP with two depressions suspected of being sewage sludge disposal pits are present that now contain water.	Metals and asbestos	Medium
5	Bomb disposal training area	Bomb shells are buried in this area for the purpose of training soldiers. Although ordnance removal occurs after training exercises this process has not been fully documented historically so explosive ordnance waste (EOW) may be present in this area.	Waste fill, metals and UXO	Medium
6	Dog agility training area	This is in the vicinity of the former Lake Sisinyak which has been partially filled. Anecdotally, auger holes/disposal pits have historically been used for the disposal of medical supplies but no evidence of this has been found in previous studies. Buried fill, and ACM may be present in this area.	Asbestos, metals and UXO	Medium
7	Bunded explosives magazine	Bund wall may contain imported fill material	Metals, asbestos and UXO	Low
8	Bridging yard	A grit blasting and spray painting facility exists in this area as well as an historical disposal pit consisting of a 2m deep trench that is understood to have been filled with general waste during the 1970s. The area is currently used for plant storage and bridging training.	TPH, Metals, BTEX, PAH, VOC and asbestos	Medium
9	Fuel/oil storage area (within bridging yard)	Unbunded storage of fuels, lube oils and degreasers was observed during Parsons Brinckerhoff site walkover. One operational UST is present.	TPH, BTEX, PAH, Pb and potential ACM in underlying fill	High
10	Museum storage yard	Outside area used for the storage, repair and restoration of historical military vehicles and equipment with some contained storage of oils, lubricants and paints.	TPH, Metals, BTEX and PAH.	Low

Area	Investigation area	Details	СоРС	Risk rank
11	Bomb demonstration, 'dust bowl' and former fire training areas	Historical fill potentially present in this area. Current operations involve earth moving training using heavy plant and machinery. Following a site inspection in May 2014, This area is now barricaded off asbestos warning signage displayed.	TPH, PAH, Metals, asbestos and AFFF	Medium
12	Maintenance workshop and vehicle wash bay (within PRA yard)	Four wash bays exist in this area with a sediment trap and oil/water separator.	TPH, anionic surfactants, PAHs, VHCs and metals	Medium
13	Plants, roads and air fields yard (PRA) (including diesel UST and bowser)	This area is used for the maintenance and refuelling of all plant and equipment used at the Steele Barracks. There is a single bowser with one 22 kL diesel UST, three other USTs (waste oil) and one operational AST.	TPH, BTEX, PAH and metals	High
14	Former Chatham Village	An historical asbestos dump is believed to be present in the former footprint of Chatham Village which was demolished in the early 1990s.	Asbestos, PAHs and metals	Medium
15	Field engineering store	Hardstand area used for the storage of metal sheeting, containers and structural metal objects.	Metals	Low
16	Former NBC store/bunker/HQ	Various chemical have been stored in this are previously. Based on previous information, radioactive materials have not been stored here since 1990 and in a surface radiological survey undertaken in 2006 no radioactive sources or contaminants were found.	VOC, SVOC and formaldehyde,	Low
17	Practice mine field and bomb disposal area	This area is used as a practice mine area where plastic mines that release smoke or dye are triggered. Anecdotal evidence suggests bomb shells may also be present in this area.	Metals and explosives	Medium
18	Former Jacquinot court (now training area)	Formerly the married quarters of the SME, the area is currently used for training exercises. There are two old buildings with ACM. No active explosives are used in this area	Asbestos and metals	Medium
19	Golf course	No previous investigations undertaken in this area.	Metals, TPH, BTEX, VOC, PAHs	Low
20	Former fire training area	Area was historically used to establish fires fuelled by various hydrocarbon ignition sources in car bodies, pans or above ground storage tanks for firefighting training. Since cessation of this training, it is understood that the top 1 m of soil has been removed and replaced with imported fill. The area is currently grassed with sparse trees.	TPH, PAH, metals, AFFF and anionic surfactants	High
21	Small arms range	Area used for general training purposes including the firing of blank bullets although there is the potential that live rounds may have been used historically.	TPH, BTEX, VOC, PAH, anionic surfactants and metals	High

Moorebank Intermodal Company Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal

Area	Investigation area	Details	CoPC	Risk rank
22	Combat engineering store	Currently understood that water purification chemicals and equipment are stored here. Historically, two bunded storage sheds were used for the storage of oils and fuels with anecdotal information suggesting that a number of spills had occurred in this area in the past.	Metals, TPH, BTEX, PAH, SVOCs and formaldehyde	Medium
23	Parade ground	Deemed to be a low risk area based on current and historical land use.	Metals, PAH and asbestos	Low
24	Military museum	Deemed to be a low risk area based on current and historical land use.	Metals, TPH, BTEX, VOC, PAHs	Low
25	Administration and accommodation	Deemed to be a low risk area based on current and historical land use.	Metals, PAH and asbestos	Low
26	Playing fields	Deemed to be a low risk area based on current and historical land use.	Metals, PAH and asbestos	Low
27	Non-operational UST	No information regarding the size or the contents of the UST was forthcoming.	Metals, TPH, BTEX and PAH	High
28	Pre-existing buildings, north-east corner	From historical aerial photographs, the area appears to be historically used as barracks. None of the infrastructure observed in the historical photograph is present today.	Asbestos and metals	Medium

CoPC - contaminants of potential concern.

Metals including arsenic, cadmium, copper, chromium, lead, mercury, nickel and zinc.

PAHs - olycyclic aromatic hydrocarbons.

TPH - Total petroleum hydrocarbons.

BTEX - benzene , toluene, ethylbenzene and xylenes.

PCBs - polychlorinated biphenyls.

Nutrients - ammonia, nitrate, nitrite, Total Kjeldahl Nitrogen (TKN) and phosphate.

AFFF - aqueous film forming foams.

OCP - organochlorine pesticides.

OPP -organophosphate Pesticides.

UXO - unexploded ordinance.

EOW -explosive ordnance wastes.

7. Conceptual site model

7.1 Geology summary

Based on geological maps of the areas, the underlying geology consists of silts, sands and clays underlain by shales of the Wianamatta group which are typically black to dark grey shales and laminates from the Triassic period. Hawkesbury Sandstone is shown to be present in the north-western area of the IMT site near to the western bank of the Georges River.

7.1.1 Potential onsite sources of contamination

Potential onsite sources include:

- buried wastes and waste stockpiles;
- leaks from the storage/use of hazardous chemicals such as fuels and waste oils;
- imported fill;
- building materials containing hazardous materials such as asbestos;
- residual contamination from former site uses such as hazardous material storage and buried ordnance; and
- contamination from ongoing site operations including the use of heavy earth moving machinery in the dust bowl area, bridging yard and fire fighting related training activities.

7.1.2 Potential Pathways

The anticipated primary transport media for migration of contaminants at this site include:

- leaching and migration of contaminants laterally and/or vertically into underlying groundwater systems and migration/ seepage into the Georges River;
- surface water flow to the Georges River and Anzac Creek;
- lateral migration of contaminated water through preferential pathways such as drainage lines or geological features to surface water receptors;
- direct contact with soils (dermal contact, ingestion and inhalation) by construction/utility workers, site users and future land owners;
- direct contact with surface water or groundwater via pumping to other areas of the IMT site or the identified registered bores by on and offsite site users and future land owners;
- migration of airborne dust via dermal contact, ingestion and inhalation by on and offsite site users and future land owners; and
- vapour migration from soil or groundwater via inhalation by on and offsite site construction/utility workers, site users and future land owners.

7.1.3 Potential receptors

Anticipated receptors for potential contaminants include:

- surface waters on and adjacent to the IMT site (onsite ponds, Georges River and Anzac Creek);
- groundwater beneath the IMT site;
- current and future site users and utility/construction personnel undertaking works at and in the vicinity of the IMT site; and
- potential downstream recreational users of the Georges River.

A schematic site conceptual model showing potential contaminant sources, pathways and receptors is provided in Figure 7.

7.1.4 Potential offsite sources of contamination

A review of available information and the walkover identified three potentially polluting operations in the near vicinity of the IMT site.

7.1.4.1 ABB Transmissions Pty Ltd

ABB Transmissions Pty Ltd (ABB) is located in the north-west corner of Moorebank Barracks on the eastern bank of the Georges River. An online search of the NSW DECCW contaminated land record database returned eight notice records (three former and five current) for ABB facility located immediately to the north of the IMT site. Notices detailed that chemical wastes including polychlorinated biphenyl (PCB) contamination was considered to be present at the premises.

7.1.4.2 Glenfield Waste Services

Glenfield Waste Services (GWS) is an active landfill and waste transfer facility located to the south-west of the Steele Barracks on the western bank of the Georges River. Although it is separated from the study area by the Georges River, such a land use would have the potential to cause contamination due to groundwater flow toward the Georges River which flows north along the western side of the IMT site.

Due to the nature of the current and historical land use it is considered that the environmental risks associated with future development over the landfill are likely to be high, as construction methods (such as piling) may undermine the environmental and geotechnical integrity of the engineered landfill capping and lining layers (if present). Any damage to engineered landfill barriers would potentially present an environmental risk by creating a preferential pathway for potentially contaminated leachate and groundwater from the landfill to enter underlying groundwater and the Georges River.

7.1.4.3 Defence National Support and Distribution Centre

Considering the industrial nature of the land to the west and the known presence of underground fuel storage areas within the Defence National Support and Distribution Centre (DNSDC) site, it is considered that there may be potential for contamination from the DNSDC to enter the IMT site through groundwater and surface water migration or through preferential pathways.

Based on the HLA report 'Soil and Groundwater Investigation Precinct H (DNSDC) Moorebank Defence Land' (November 2002), impacts have previously been identified in groundwater directly up gradient of the IMT site, in particular total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene and xylene (BTEX) compounds and elevated dissolved heavy metals (including cadmium, copper, zinc, nickel and lead). The most elevated TPH concentrations were reported in groundwater sampled from monitoring wells located in the south-western area of the DSNDC along the western site boundary. This is in close proximity to the refuelling area where USTs are present.

Based on the westerly inferred groundwater flow direction, the likely relatively high hydraulic conductivity of the sandy clay geology encountered and the known mobility of the contaminants identified in groundwater at the DNSDC site during the HLA 2002 investigation, there is the potential for migration of contaminants from the DNSDC site towards the IMT site. Groundwater monitoring as part of Phase 2 works is likely to be recommended in order to provide additional data to assess whether onsite migration of identified contaminants from the offsite source is likely to be occurring.

8. Data gaps

Based on a review of the currently available site environmental reports, several data gaps were identified. Further intrusive investigations are recommended to address these data gaps and to determine the measures necessary to complete the site evaluation.

8.1.1 Underground storage of fuels and waste oils

The review of previous investigations identified five active underground storage tanks (USTs) and one decommissioned UST present on the IMT site that have been estimated to be over 20 years old (details are provided in section 3.3.6). Only the diesel UST and an associated bowser were observed by Parsons Brinckerhoff during the site walk over.

Soil sampling and analysis and installation of ground water monitoring wells and groundwater sampling and analysis would be recommended near these tanks to assess potential soil and/or groundwater contamination impacts.

A survey using metal detection and/or ground penetrating radar (GPR) techniques may be required to establish the exact locations of the USTs as part of the Phase 2 works.

8.1.2 Waste fill

There is the potential for areas of fill to be present in areas of the IMT site that have not been assessed as part of previous investigations. It is recommended that these areas be investigated to establish the presence or absence of fill materials where spatial data gaps currently exist. As well as potential contamination issues, waste fill may have implications concerning geotechnical suitability of the IMT site for development and/or for offsite disposal of excavated materials (dependent on the final design).

8.1.3 General site coverage

Previous environmental investigations focussed on areas where known historical or current activities had the potential to cause contamination. There is the potential for contamination to exist in other areas of the IMT site.

8.1.4 Potential impacts from offsite contaminant sources

Based on previous investigations, groundwater flow is inferred to be towards to west in the direction of the Georges River. Considering the industrial nature of the land to the west and the known presence of fuel storage in the south of the DSNDC site, additional well installation and sub-surface investigation along the eastern boundary of the study area is recommended. The purpose of this is to establish baseline contaminant data at the eastern site boundary and to identify any potential contamination entering the IMT site via groundwater migration from the industrial area to the west.

8.1.5 Trichloroethene contamination in groundwater

Previous studies of Defence owned land in the north-west of the IMT site have showed trichloroethene (TCE), Cis1, 2 dichloroethene (DCE) and elevated metals to be present in groundwater. As the most recent available data is from 2006, further groundwater sampling is recommended in this area to establish the current status of TCE contamination previously identified. This will provide additional data on which to assess the environmental and human health risks (if any) and associated remediation/management decisions.

8.1.6 Potential impacts in the rail access options

At the time of preparing this Phase 1 ESA, three rail access options were being considered. The Phase 1 ESA undertaken for each option (Appendices J to L) indicated that there is limited potential for contamination to exist in the northern and central rail access options. The historical and ongoing use of the southern rail access option as a waste disposal facility indicated that there is high potential for contamination to exist. Furthermore, because of the presence of the waste disposal facility in the southern area and the inferred north-easterly groundwater flow direction, Parsons Brinckerhoff considered that it is necessary to gather data on soil and groundwater quality so that construction design, management and/or remediation options can be evaluated prior to any development.

9. Conclusions

MIC commissioned Parsons Brinckerhoff to undertake a Phase 1 ESA for the Commonwealth land occupied by the Department of Defence located adjacent to Moorebank Avenue, Moorebank NSW (the IMT site), and three areas to the west of the IMT site and across Georges River. One of these three parcels of land will be the access point connecting rail link from the IMT site to the SSFL.

The Phase 1 ESA was completed to identify the potential contamination issues present at the IMT site with the purpose of assessing the environmental feasibility of the proposed use as an IMT.

The scope of work included a review of aerial photographs, council records, public registers, geological and hydrological information and previous reports containing environmental information pertaining to the IMT site provided by Defence, a site inspection and the preparation of this Phase 1 ESA report.

The IMT site is roughly rectangular in shape covering a total area of approximately 220 ha and is currently used by Defence. The study area for the Phase 1 ESA includes the Moorebank Barracks and the Steele Barracks.

The IMT site surface is generally flat and is underlain by alluvial sands, silts and clays overlying shale and sandstone. Based on the findings of previous investigations, it is inferred that groundwater flow is towards the west in the direction of the Georges River which flows northwards along western boundary of the study area. The M5 motorway runs east to west to the north of the IMT site.

Based on a review of aerial photographs, the IMT site has been used for Defence purposes since the 1940s. The surrounding area has evolved from predominantly vacant bushland in 1970s to being developed for residential, commercial and industrial purposes to the present day.

Based on known historical and current site uses and previous investigation data, the key contaminants of potential concern identified include total petroleum hydrocarbons (TPH), BTEX compounds (benzene, toluene, ethylbenzene and xylene), polycyclic aromatic hydrocarbons (PAHs) heavy metals, polychlorinated biphenyls (PCBs), trichloroethene (TCE), volatile organic compounds (VOCs), asbestos and compounds associated with unexploded ordinance/munitions and fire fighting foams.

On site contamination is considered to be associated with the following sources:

- buried wastes and waste stockpiles including asbestos containing materials (ACM) and imported fill;
- leaks from the storage/use of fuels and waste oils and hazardous chemicals;
- presence of building materials containing asbestos;
- residual contamination from buried munitions and practice ordnance;
- off-site contaminant sources which have migrated onsite through groundwater; and
- ongoing site operations including the use of heavy earth moving machinery in the dust bowl training area, bridging yard and firefighting related training activities.

Potential pathways and receptors are considered to include:

- leaching and migration of contaminants horizontally and/or vertically into underlying groundwater and migration/into the Georges River;
- surface water flow/lateral migration of contaminated water through preferential pathways to the Georges River;

- direct contact with soils, surface water or groundwater (dermal contact, ingestion and inhalation) by construction/utility workers, site users and future land users;
- direct contact with surface water or groundwater (dermal contact, ingestion and inhalation) via pumping to other areas of the IMT site or through registered domestic bores that have been identified offsite;
- migration of airborne dust to on and offsite receptors via dermal contact, ingestion and inhalation;
- vapour migration from soil or groundwater to onsite and offsite users/workers via inhalation; and
- Georges River via groundwater and surface water migration and downstream migration to ecologically sensitive receptors and recreational users downstream.

A Phase 1 review of the three rail alignment options for the IMT concluded there is limited potential for contamination to exist in the northern and central rail access options. However, due to the landfill located to the south and the inferred north-easterly groundwater flow direction; there may be the potential for contamination from offsite to have migrated to these areas through groundwater flow.

In addition, for the northern rail access option, there is the potential for buried waste and tipped waste (potentially including ACM) and imported fill to be present and potential impacts from dispersed aerial deposition of contaminants from the roadway. Historical land use associated with former Casula Power Station and deposition of potential contaminant via stormwater drainage from the adjacent road, may be another potential source of contamination within the northern rail access option.

9.1 Recommendations

- Previous investigations have identified that localised areas of contamination are present at the IMT site including localised asbestos impacted fill, TPH, TCE and heavy metals impacts in soil and groundwater.
- Based on a review of the available environmental information pertaining to the IMT site, it is considered that it would be feasible to develop the land for an industrial end use as an IMT, however some remediation and site management is likely to be required to address the onsite contamination issues previously identified.
- In order to further quantity the extent and nature of the identified contamination, it is recommended that
 additional intrusive soil and groundwater investigation works be undertaken to augment the existing site
 data and to reduce the spatial data gaps identified during the Phase 1 ESA.
- The objective of additional intrusive works would be to collect sufficient information to undertake a more robust assessment of the suitability of the IMT site for redevelopment for industrial end use. With this additional data, a more accurate assessment of the likely environmental management and remediation measures necessary to render the IMT site suitable for the proposed IMT development can be undertaken.
- Undertake targeted soil and groundwater investigation at the selected rail access option to establish soil and groundwater quality so that construction design, management and/or remediation options can be evaluated prior to any development of the IMT site.

10. Limitations

Scope of services

This environmental site assessment report (the report) has been prepared in accordance with the scope of services set out in the contract, or as otherwise agreed, between the client and Parsons Brinckerhoff (scope of services). In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints.

Reliance on data

In preparing the report, Parsons Brinckerhoff has relied upon data, surveys, analyses, designs, plans and other information provided by the client and other individuals and organisations, most of which are referred to in the report (the data). Except as otherwise stated in the report, Parsons Brinckerhoff has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report (conclusions) are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. Parsons Brinckerhoff will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to Parsons Brinckerhoff.

Environmental conclusions

In accordance with the scope of services, Parsons Brinckerhoff has relied upon the data and has not conducted any environmental field monitoring or testing in the preparation of the report. The conclusions are based upon the data and visual observations and are therefore merely indicative of the environmental condition of the IMT site at the time of preparing the report, including the presence or otherwise of contaminants or emissions.

Within the limitations imposed by the scope of services, the assessment of the IMT site and preparation of this report have been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No other warranty, expressed or implied, is made.

Report for benefit of client

The report has been prepared for the benefit of the client (MIC) and no other party. Parsons Brinckerhoff assumes no responsibility and will not be liable to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report (including without limitation matters arising from any negligent act or omission of Parsons Brinckerhoff or for any loss or damage suffered by any other party in relying upon the matters dealt with or conclusions expressed in the report). Other parties should not rely upon the report or the accuracy or completeness of any conclusions and should make their own enquiries and obtain independent advice in relation to such matters.

Other limitations

Parsons Brinckerhoff will not be liable to update or revise the report to take into account any events, emergent circumstances or facts occurring or becoming apparent after the date of the report.

The scope of services did not include any assessment of the title to nor ownership of the properties, buildings and structures referred to in the report, nor the application or interpretation of laws in the jurisdiction in which those properties, buildings and structures are located.

11. References

ANZECC (1992) Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites.

Dames and Moore (1996), Environmental Management Plan for Liverpool Base Administrative Support Centre and School of Military Engineering (Reference 12343-032-363, 24 May 1996).

Department of Land and Water Conservation (1998) – Guidelines for the use of acid sulfate soils risk maps (Second edition - March 1998.

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GHD (2004) Groundwater Investigation of the North Western Portion of the Moorebank Defence Land Factual Report (Reference PTDF 10/03, 30 July 2004).

HLA Envirosciences (2003) Preliminary Groundwater Study, Moorebank Defence Land (Reference D0246, 18 February 2003).

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Parsons Brinckerhoff (2014), Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal -Central Rail Access Option (Lot 4 DP 1130937), Moorebank, NSW. (Report reference 22189293E-CLM-RPT-0727 RevA).

Parsons Brinckerhoff (2014), Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal -Southern Rail Access Option (Lot 5 DP 833516, Lot 51 DP 515696, Lot 52, DP 517310 and Lots 103 & 104 DP1143827), Moorebank, NSW (Report reference 2189293E-CLM-RPT-0729 RevA).

United States Environmental Protection Agency (USEPA) Data Quality Objectives Process for Hazardous Waste Site Investigations, EPAQA/G4HW, 2000 (b).

Appendix A

Figures



MOOREBANK INTERMODAL TERMINAL

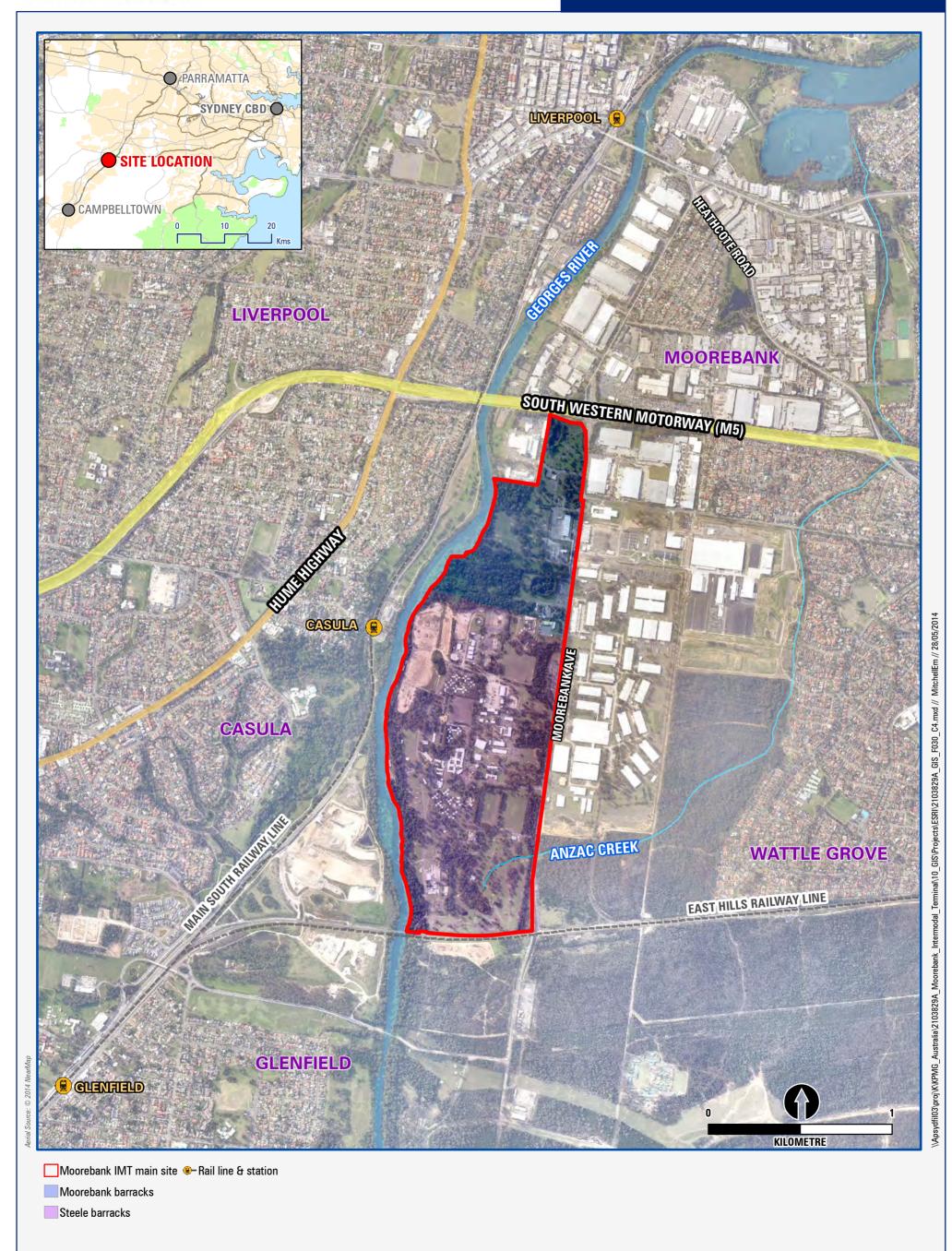


Figure 1: Site location plan

MOOREBANK INTERMODAL TERMINAL



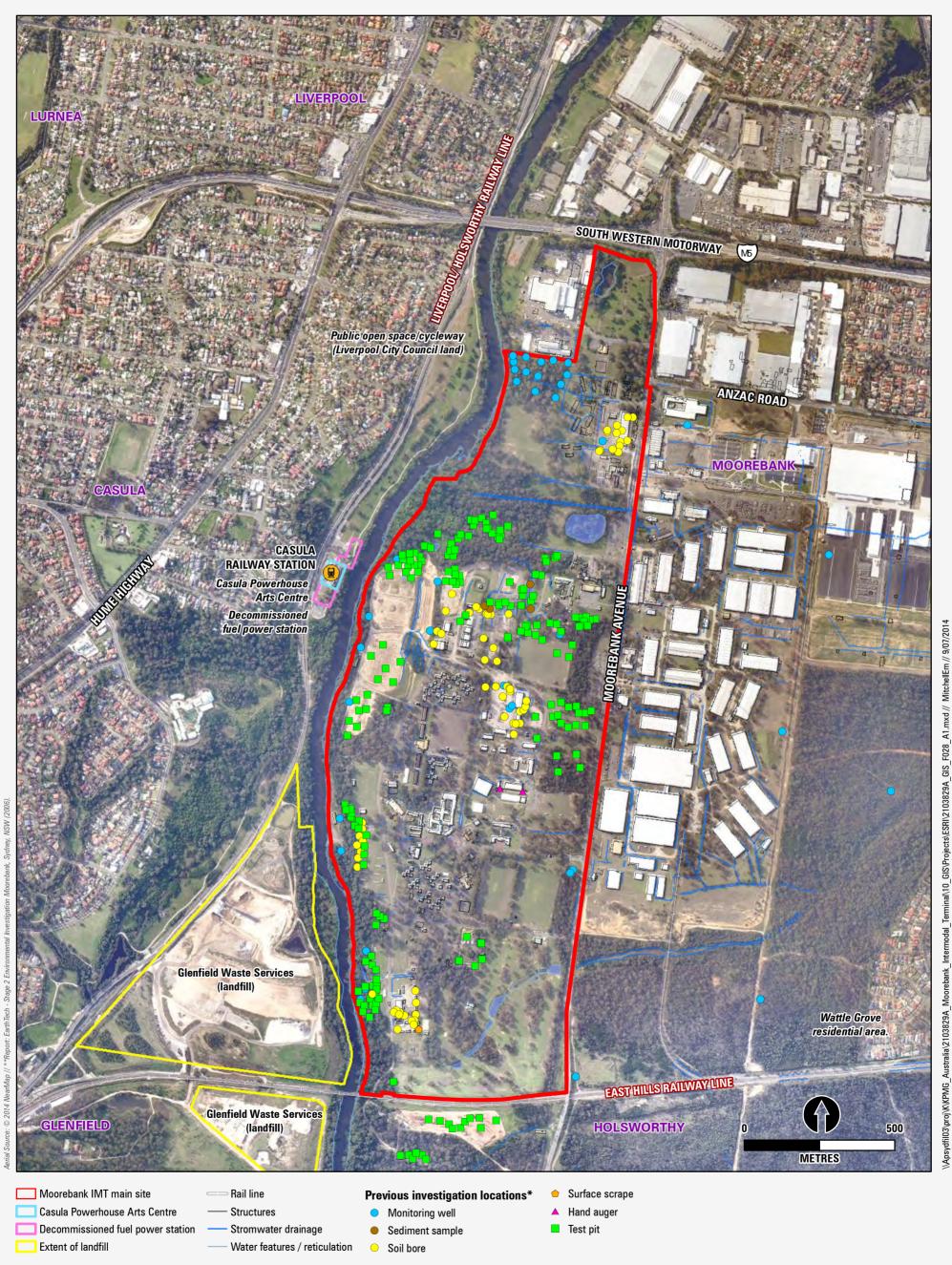
Moorebank barracks

Steele barracks

Water features / reticulation

Figure 2: Site area and surrounding features

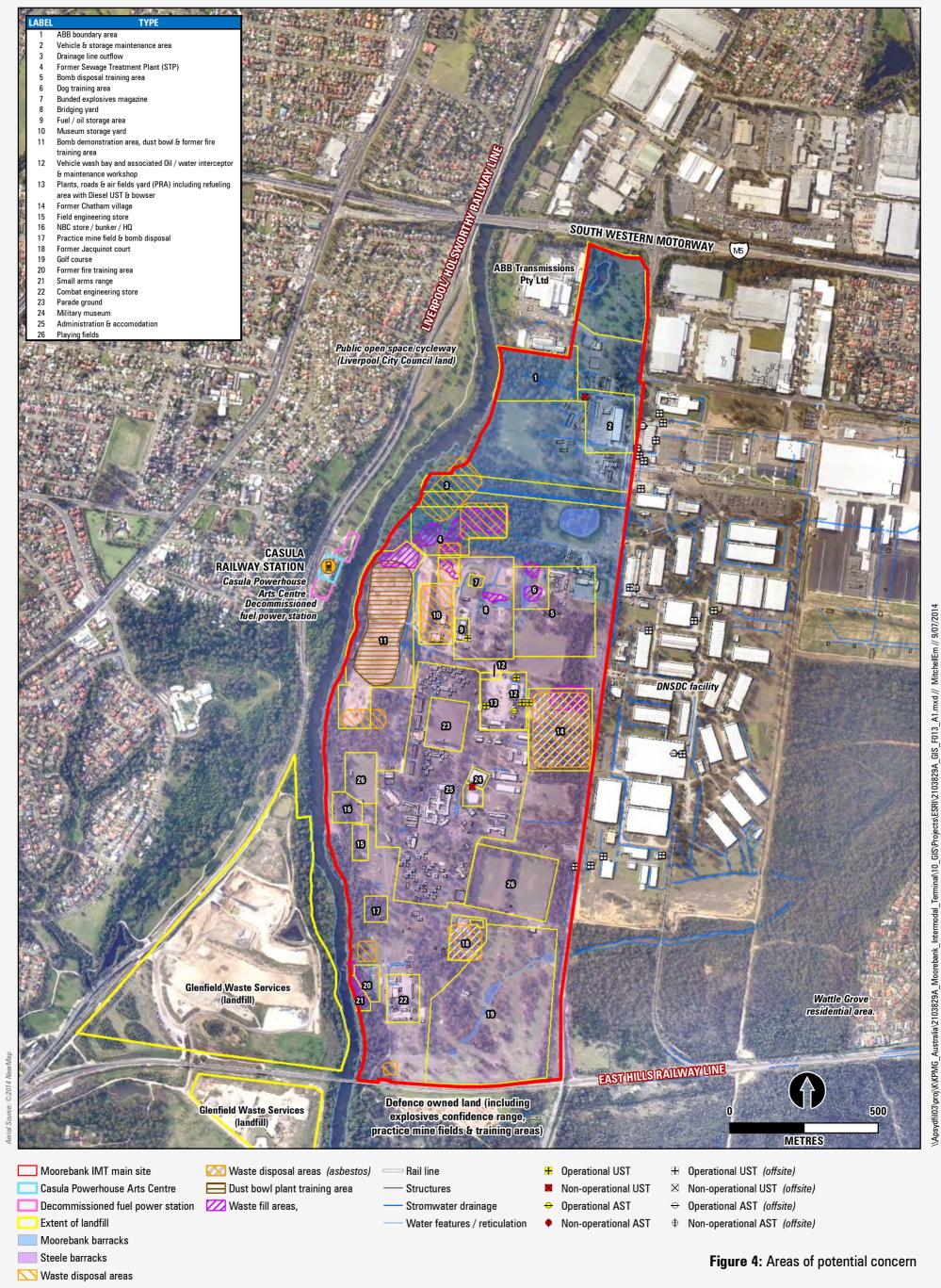
MOOREBANK INTERMODAL TERMINAL



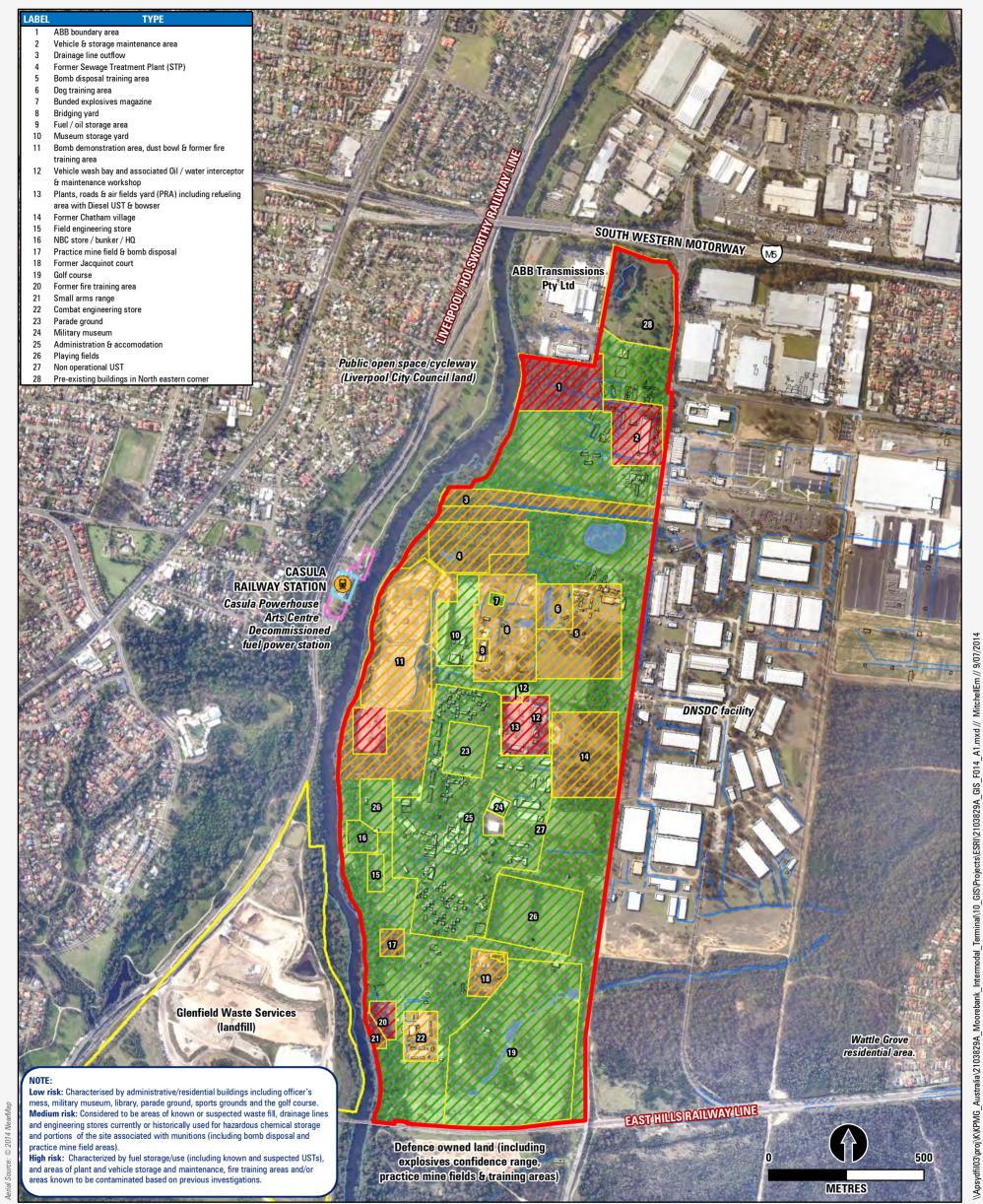
orebank_Intermodal_Terminal\10_GIS\Projects\ESRI\2103829A_GIS_F028_A1.mxd// MitchellEm//9/07/2014

Figure 3: Previous investigation locations

MOOREBANK INTERMODAL TERMINAL



MOOREBANK INTERMODAL TERMINAL





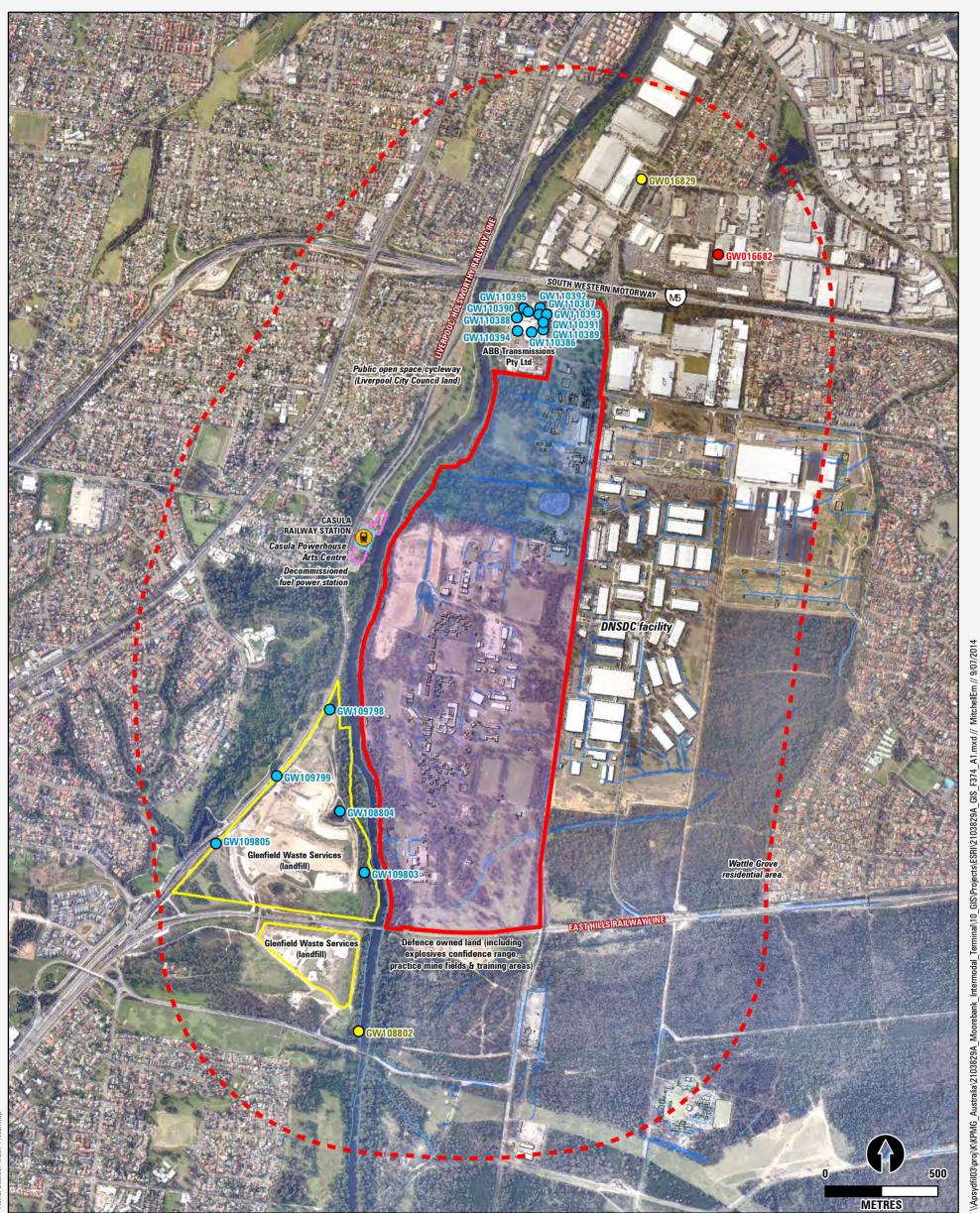
- Moorebank IMT main site
 - Casula Powerhouse Arts Centre
 - Decommissioned fuel power station
 - Extent of landfill

💳 Rail line

- Stromwater drainage Water features / reticulation
- **Risk Ranking*** 💋 Low
- 💋 Medium 💋 High

Figure 5: Contaminated land potential risk areas

MOOREBANK INTERMODAL TERMINAL



- ©2014 Nei Source
- Moorebank Intermodal Terminal boundary
- ∎**_**∎1km radius
 - Casula Powerhouse Arts Centre
 - Decommissioned fuel power station

Rail line

Structures

Stromwater drainage

Water features / reticulation

- Extent of landfill
- Moorebank barracks
- Steele barracks

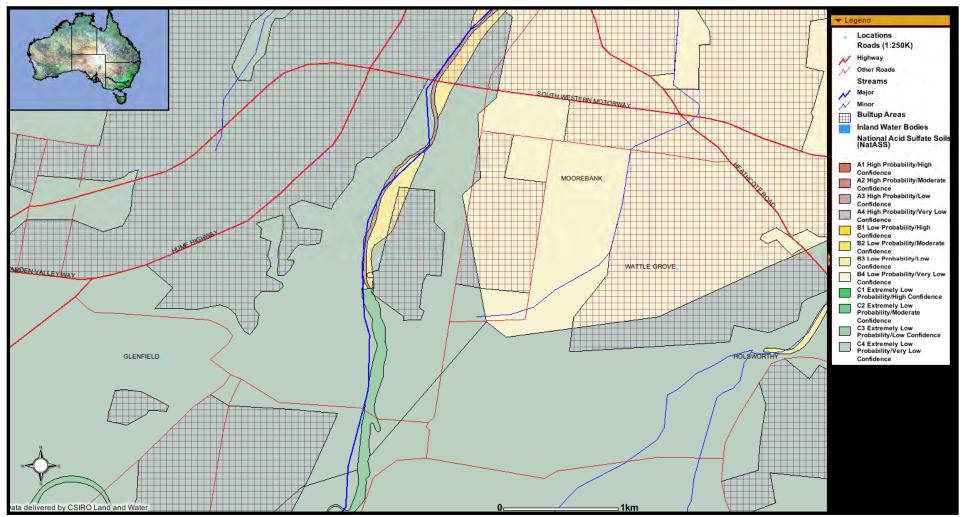
- Registered monitoring wells
- O Domestic
- O Monitoring wells
- I Waste disposal

Figure 6: Registered groundwater bore locations

Appendix B

Acid sulfate soils risk map (ASRIS)





ASS Risk Map (ASRIS) - Moorebank (Appendix I)

Appendix C

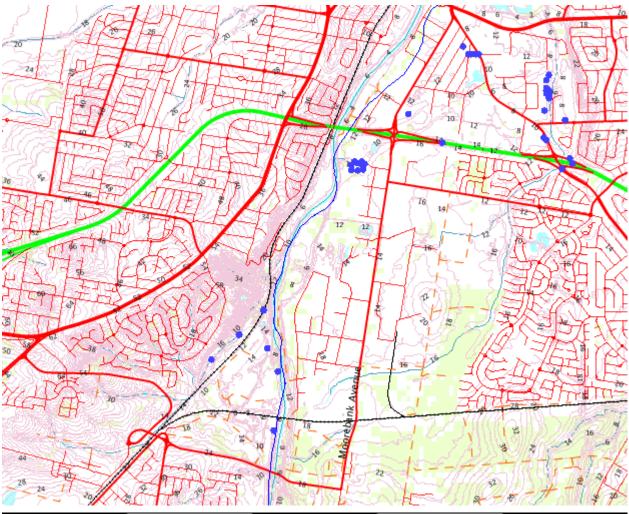
NSW Water information - registered groundwater bore search



Moorebank Bores

Map created with NSW Natural Resource Atlas - http://nratlas.nsw.gov.au

Monday, October 11, 2010



0

Legend

Symbol	Layer	Custodian
•	Cities and large towns renderImage: Cannot build image from features	
Cowra) O	Populated places renderImage: Cannot build image from features	
0	Towns	
•	Groundwater Bores	
	Catchment Management Authority boundaries	
\sim	Major rivers	

Topographic base map

6 Km



Copyright © 2010 New South Wales Government. Map has been compiled from various sources and may contain errors or omissions. No representation is made as to its accuracy or suitability.

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW016682

Works Details (top)

LIC-NUM10BL011770AUTHORISED-PURPOSESWASTE DISPOSALINTENDED-PURPOSESWASTE DISPOSALWORK-TYPEWellWORK-STATUSSupply ObtainedCONSTRUCTION-METHODUnknown)OWNER-TYPEPrivateCOMMENCE-DATE1961-09-01COMPLETION-DATE3.90FINAL-DEPTH (metres)3.90DRILLED-DEPTH (metres)3.00PROPERTYN/ACONTRACTOR-NAMEPROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-SALINITYYIELD	GROUNDWATER NUMBER	GW016682
INTENDED-PURPOSESWASTEDISPOSALWORK-TYPEVellWORK-STATUSSupplObainedCONSTRUCTION-METHODUnknownOWNER-TYPEPrivateCOMMENCE-DATE1961-09-01COMPLETION-DATE3.90FINAL-DEPTH (metres)3.00DRILLED-DEPTH (metres)4.00DRILLER-NAMEFPROPERTYN/AGWMA603 - SYDNEY BASINGWMA-GWACONE-STANDING-WATER-LEVEL-SALINITY-	LIC-NUM	10BL011770
WORK-TYPEWellWORK-STATUSSupplotainedCONSTRUCTION-METHODUnknownOWNER-TYPEPrivateCOMMENCE-DATE1961-09-01COMPLETION-DATE3.90FINAL-DEPTH (metres)3.00DRILLED-DEPTH (metres)4.00DRILLER-NAME-PROPERTYN/AGWMA603 - SYDNEYBASINGWMA-GWACONE-STANDING-WATER-LEVEL-KALINITY-	AUTHORISED-PURPOSES	WASTE DISPOSAL
WORK-STATUSSupply ObtainedCONSTRUCTION-METHOD(Unknown)OWNER-TYPEPrivateCOMMENCE-DATE1961-09-01COMPLETION-DATE1961-09-01FINAL-DEPTH (metres)3.90DRILLED-DEPTH (metres)4.00CONTRACTOR-NAMEJDRILLER-NAMEJPROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVELJSALINITYJ	INTENDED-PURPOSES	WASTE DISPOSAL
CONSTRUCTION-METHOD(Unknown)OWNER-TYPEPrivateCOMMENCE-DATE1961-09-01COMPLETION-DATE1961-09-01FINAL-DEPTH (metres)3.90DRILLED-DEPTH (metres)4.00CONTRACTOR-NAMETDRILLER-NAMESAUNEYPROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVELSALINITY	WORK-TYPE	Well
OWNER-TYPEPrivateCOMMENCE-DATE97000000000000000000000000000000000000	WORK-STATUS	Supply Obtained
COMMENCE-DATE1961-09-01COMPLETION-DATE1961-09-01FINAL-DEPTH (metres)3.90DRILLED-DEPTH (metres)4.00CONTRACTOR-NAME-DRILLER-NAME-PROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVEL-SALINITY-	CONSTRUCTION-METHOD	(Unknown)
COMPLETION-DATE1961-09-01FINAL-DEPTH (metres)3.90DRILLED-DEPTH (metres)4.00CONTRACTOR-NAMEVDRILLER-NAME000PROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVELSALINITY	OWNER-TYPE	Private
FINAL-DEPTH (metres)3.90DRILLED-DEPTH (metres)4.00CONTRACTOR-NAME7DRILLER-NAME7PROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVEL7SALINITY	COMMENCE-DATE	
DRILLED-DEPTH (metres)4.00CONTRACTOR-NAME-DRILLER-NAMEN/APROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVEL-SALINITY-	COMPLETION-DATE	1961-09-01
CONTRACTOR-NAME DRILLER-NAME PROPERTY N/A GWMA 603 - SYDNEY BASIN GW-ZONE - STANDING-WATER-LEVEL SALINITY	FINAL-DEPTH (metres)	3.90
DRILLER-NAMEPROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVEL-SALINITY-	DRILLED-DEPTH (metres)	4.00
PROPERTYN/AGWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVEL-SALINITY-	CONTRACTOR-NAME	
GWMA603 - SYDNEY BASINGW-ZONE-STANDING-WATER-LEVEL-SALINITY-	DRILLER-NAME	
GW-ZONE - STANDING-WATER-LEVEL SALINITY	PROPERTY	N/A
STANDING-WATER-LEVEL SALINITY	GWMA	603 - SYDNEY BASIN
SALINITY	GW-ZONE	-
	STANDING-WATER-LEVEL	
YIELD	SALINITY	
	YIELD	

Site Details (top)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	213 - SYDNEY COAST - GEORGES RIVER
AREA-DISTRICT	
CMA-MAP	9030-2S
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	(Unknown)
NORTHING	6242741.00
EASTING	308691.00
LATITUDE	33 56' 18"
LONGITUDE	150 55' 48"
GS-MAP	0056D4

AMG-ZONE 56 COORD-SOURCE GD.,ACC.MAP REMARK

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	56

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 59 752034

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	Concrete Cylnder	-0.30	-0.30	914			(Unknown)

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT-DESC	S- W-L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
3.90	3.90	0.00	(Unknown)	3.90					(Unknown)

Drillers Log (top)

FROM	ТО	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.91	0.91	Sand		
0.91	1.82	0.91	Clay Hard Cemented		
1.82	3.96	2.14	Sand Water Supply		

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110394

Works Details (top)

GROUNDWATER NUMBER	GW110394
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-06
FINAL-DEPTH (metres)	10.00
DRILLED-DEPTH (metres)	10.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	9.40
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242402.00 EASTING 307802.00 33 56' 29" LATITUDE LONGITUDE 150 55' 13" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE NO	- PIPE NO	- COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	10.00	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	6.60	63			Screwed; Seated on Bottom
1	1	Opening	Screen	6.60	9.60	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH THICKNESS (metres) (metres)	ROCK- CAT- DESC	S- W-L D- VIELD DEPTH (metres)	DURATION SALINITY
9.00	10.00 1.00		9.40	

FROM TO THIC		THICKNESS	DESC	GEO- MATERIAL	COMMENT	
	0.00	0.05	0.05	ASPHALT		
	0.05	0.20	0.15	CONCRETE		
	0.20	0.70	0.50	FILL,SAND,RED/BROWN		

0.70	1.50 0.80	SILTY SAND, RED BROWN, SILT AND CLAY
1.50	4.00 2.50	GRADING INTO SAND, RED BROWN
4.00	6.50 2.50	SANDY CLAY, LOW PLASTICITY, STIFF, SOFT
6.50	10.00 3.50	CLAYEY SAND,FINE,TO MEDIUM GRAINED,RED,LOOSE

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110393

Works Details (top)

GW110393
10BL165522
MONITORING BORE
MONITORING BORE
Well
Auger - Solid Flight
Private
2005-09-05
9.00
9.00
A B B AUSTRALIA
-
-
7.80

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242475.00 EASTING 307931.00 33 56' 26" LATITUDE LONGITUDE 150 55' 18" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE NO	- PIPE NO	- COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	9.00	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	6.00	63			Screwed; Seated on Bottom
1	1	Opening	Screen	6.00	9.00	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH THICK (metres) (metre	(NESS ROCK- cat- cat- desc	S- D- W-L L	YIELD DEPTH (metres)	DURATION SALINITY
7.60	9.00 1.40		7.80		

FROM T	O THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00 0	.30 0.30	FILL,SANDY GRAVEL	
0.30 2	.50 2.20	SAND, FINE MEDIUM GRAINED	
2.50 3	.40 0.90	SANDY CLAY, BROWN, SAND MOIST, SOFT	
3.40 4	.50 1.10	CLAYEY SAND, FINE GRAINED	

4.50	6.50 2.00	SANDY CLAY, FINE GRAINED SAND
6.50	9.00 2.50	CLAYEY SAND, FINE MEDIUM GRAINED

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110392

Works Details (top)

GROUNDWATER NUMBER	GW110392
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-05
FINAL-DEPTH (metres)	8.50
DRILLED-DEPTH (metres)	8.50
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	7.25
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242504.00 EASTING 307902.00 LATITUDE 33 56' 26" LONGITUDE 150 55' 17" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE NO	- PIPE NO	- COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	8.50	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	5.50	63			Screwed; Seated on Bottom
1	1	Opening	Screen	5.50	8.50	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH THICKI (metres) (metres	IESS ROCK- CAT- DESC	S- W-L D- L TEST-HOLE- DEPTH DURATION (metres)	ON SALINITY
7.00	8.50 1.50		7.25	

FROM		IESS DESC	GEO-MATERIAL COMMENT
0.00	1.00 1.00	FILL,SAND,BROWN,DRY	
1.00	3.50 2.50	CLAYEY SAND, FINE TO MEDIL	IM GRAINED
3.50	5.00 1.50	CLAY, RED/BROWN, FINE GRA	NED SAND
5.00	5.50 0.50	GRADING INTO SANDY CLAY,	SOFT,DRY

5.50 8.50 3.00 INCREASED SAND, RED/BROWN, MOIST, WET

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110391

Works Details (top)

GROUNDWATER NUMBER	GW110391
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-05
FINAL-DEPTH (metres)	8.70
DRILLED-DEPTH (metres)	8.70
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	7.50
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242439.00 EASTING 307916.00 33 56' 28" LATITUDE LONGITUDE 150 55' 18" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	8.70	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	4.70	63			Screwed; Seated
1	1	Opening	Screen	5.70	8.70	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	I THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
	8.70	1.50		7.50					

FROM	то	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	0.30	0.30	FILL, GRAVELLY SILT	
0.30	2.50	2.20	SAND,FINE,RED/BROWN	
2.50	3.50	1.00	SANDY CLAY, RED/BROWN	
3.50	4.40	0.90	SILTY SAND, LIGHT BROWN	
4.40	8.70	4.30	SAND, FINE, M/GRAINED, RED/BROWN	

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110390

Works Details (top)

GROUNDWATER NUMBER	GW110390
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-06
FINAL-DEPTH (metres)	9.00
DRILLED-DEPTH (metres)	9.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	7.20
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242487.00 EASTING 307849.00 33 56' 26" LATITUDE LONGITUDE 150 55' 15" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE NO	- PIPE NO	- COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	9.00	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	5.90	63			Screwed; Seated on Bottom
1	1	Opening	Screen	5.90	8.90	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH THIC (metres) (me	CKNESS ROCK- etres) CAT- DESC	S- D- TEST-HOLE- D- YIELD DEPTH DUR L (metres)	ATION SALINITY
7.20	9.00 1.80		7.20	

FROM	ТО	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	0.70	0.70	FILL,SANDY SILT	
0.70	1.30	0.60	FILL,SANDY CLAY	
1.30	3.50	2.20	SANDY CLAY, RED BROWN	
3.50	4.50	1.00	CLAYEY SAND, FINE/M/GRAINED	

4.50 9.00 4.50 SANDY CLAY, GREY, L/BROWN MOTTLING.

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110389

Works Details (top)

GROUNDWATER NUMBER	GW110389
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-06
FINAL-DEPTH (metres)	10.00
DRILLED-DEPTH (metres)	10.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	7.90
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242407.00 EASTING 307916.00 33 56' 29" LATITUDE LONGITUDE 150 55' 18" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE NO	- PIPE NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	10.00	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	6.90	63			Screwed; Seated on Bottom
1	1	Opening	Screen	6.90	9.90	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm; Q: 33m ³

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	I THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
7.70	10.00	2.30		7.90					

FRON	ТО	THICKNESS	DESC	GEO- MATERIAL	COMMENT
0.00	0.10	0.10	ASPHALT		
0.10	0.20	0.10	FILL,GRAVEL		

0.20	0.70	0.50	FILL CLAYEY SAND
0.70	1.30	0.60	FILL, GRAVELLY CLAYEY
1.30	2.40	1.10	CLAY, MODERATE, TO HIGH PLASTICITY
2.40	5.40	3.00	SANDY CLAY, FINE GRAINED SAND
5.40	6.50	1.10	CLAYEY SAND, L/BROWN, GREY MOTTLING
6.50	10.00	3.50	GRADING INTO SAND,M/GRAINED,RED BROWN

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110388

Works Details (top)

GROUNDWATER NUMBER	GW110388
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-07
FINAL-DEPTH (metres)	10.00
DRILLED-DEPTH (metres)	
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	7.60
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242460.00 EASTING 307799.00 33 56' 27" LATITUDE LONGITUDE 150 55' 13" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm) INTE	RVAL	DETAIL
1		Hole	Hole	0.00	10.00	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	6.50	63			Screwed; Seated on Bottom
1	1	Opening	Screen	6.50	9.50	63			PVC Class 18; A: .4mm; Screwed

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
7.60	10.00	2.40		7.60					

FROM	ТО	THICKNESS	DESC	GEO-MATERIAL COM	MENT
0.00	0.10	0.10	ASPHALT		
0.10	0.30	0.20	FILL, SANDY GRAVEL		
0.30	0.80	0.50	FILL,SANDY SILT		
0.80	2.20	1.40	FILL, GRAVELLY SAND		
2.20	5.40	3.20	CLAYEY SAND		
5.40	6.60	1.20	SAND, FINE-MEDIUM GRAINED		
6.60	8.00	1.40	CLAYEY SAND, MEDIUM GRAINED		

8.00 10.00 2.00 SAND, MEDIUM GRAINED, BROWN, LOOSE

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110387

Works Details (top)

GW110387
10BL165522
MONITORING BORE
MONITORING BORE
Well
Auger - Solid Flight
Private
2005-09-07
10.00
10.00
A B B AUSTRALIA
-
-
8.00

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242475.00 EASTING 307897.00 LATITUDE 33 56' 26" LONGITUDE 150 55' 17" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	10.00	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	7.00	63			Screwed; Seated on Bottom
1	1	Opening	Screen	7.00	10.00	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH THICKNESS (metres) (metres)	ROCK- CAT- DESC	S- D- D- YIEI L	TEST-HOLE- LD DEPTH (metres)	DURATION SALINITY
8.00	10.00 2.00		8.00		

FROM T	O THICKNESS	B DESC	GEO- MATERIAL	COMMENT
0.00 0.	.20 0.20	ASPHALT		
0.20 0.	.90 0.70	FILL.SAND,BROWN,FINE,DRY,LOOSE		
0.90 1.	.90 1.00	CLAYEY SAND, FINE, M/GRAINED, L/BROWN		

1.90	3.30	1.40	CLAY, MODERATE PLASTICITY
3.30	4.80	1.50	SANDY CLAY, LOW PLASTICITY
4.80	7.00	2.20	SAND, FINE MEDIUM GRAINED, BROWN
7.00	8.80	1.80	CLAYEY SAND, FINE GRAINED, BROWN
8.80	10.00	1.20	SAND,FINE MEDIUM GRAINED,GREY,SOME CLAY

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110386

Works Details (top)

GROUNDWATER NUMBER	GW110386
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-06
FINAL-DEPTH (metres)	8.50
DRILLED-DEPTH (metres)	8.50
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	6.00
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242396.00 EASTING 307864.00 33 56' 29" LATITUDE LONGITUDE 150 55' 16" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTYCUMBERLANDPARISHHOLSWORTHYPORTION-LOT-DP2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD ID (mm) (mm) INTERVAL	DETAIL
1		Hole	Hole	0.00	8.50	125	
1	1	Casing	PVC Class 18	0.00	5.20	63	Seated on Bottom
1	1	Opening	Screen	5.20	8.30	63	PVC Class 18; A: .4mm; Packer
1		Annulus	Waterworn/Rounded	0.00	0.00		Graded; GS: 1- 2mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	I THICKNESS (metres)	ROCK- CAT- DESC	S- [W-L [)-)- YIEL[-	TEST-HOLE- DEPTH (metres)	DURATION	SALINITY
6.00	8.50	2.50		6.00				

FROM	то	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	0.50	0.50	FILL, GRAVELLY SAND	
0.50	4.10	3.60	SANDY CLAY, BROWN, FINE GRAINED	
4.10	6.50	2.40	SANDY CLAY, GREY, FINE GRAINED SAND	
6.50	8.50	2.00	CLAYEY SAND, FINE GRAINED, L/BROWN	

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW109805

Works Details (top)

GROUNDWATER NUMBER	GW109805
LIC-NUM	10BL601722
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2007-01-29
FINAL-DEPTH (metres)	12.00
DRILLED-DEPTH (metres)	12.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	GLENFIELD WASTE DISPOSALS
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6240130.00 EASTING 306467.00 33 57' 42" LATITUDE LONGITUDE 150 54' 20" **GS-MAP**

Form-A (top)

COUNTY CUMBERLAND PARISH MINTO PORTION-LOT-DP //999999

Licensed (top)

COUNTYCUMBERLANDPARISHMINTOPORTION-LOT-DP5 833156

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD ID (mm) (mm) INTERVAL	DETAIL
1		Hole	Hole	0.00	12.00	100	Auger - Solid Flight
1	1	Casing	P.V.C.	-0.75	5.10	50	Screwed
1	1	Opening	Screen	5.10	12.00	50	PVC; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00		Graded; GS: 2- 5mm; Q: 6900m ³

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO- MATERIAL	COMMENT
0.00	1.80	1.80	SILTY CLAY LOAM, BROWN, DRY		
1.80	2.80	1.00	SANDY LOAM, TRACE SILT, GREY/BROWN		
2.80	9.80	7.00	SAND,LIGHT BROWN, MEDIUM GRAINED,TRACE SILT		
9.80	12.00	2.20	SAND,GREY,MEDIUM GRAINED,WET,WEATHERED SHALE AT 12m		

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(DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW109803

Works Details (top)

GROUNDWATER NUMBER	GW109803
LIC-NUM	10BL601722
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-02-10
FINAL-DEPTH (metres)	29.80
DRILLED-DEPTH (metres)	29.80
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	GLENFIELD WASTE DISPOSALS
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6240002.00 EASTING 307124.00 33 57' 46" LATITUDE 150 54' 45" LONGITUDE **GS-MAP**

Form-A (top)

COUNTY CUMBERLAND PARISH MINTO PORTION-LOT-DP 5//833516

Licensed (top)

COUNTYCUMBERLANDPARISHMINTOPORTION-LOT-DP5 833156

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD ID (mm) (mm) INTERVAL	DETAIL
1		Hole	Hole	0.00	7.50	100	Auger - Solid Flight
1		Hole	Hole	7.50	29.80	100	Other
1	1	Casing	P.V.C.	-0.82	20.80	50	Screwed
1	1	Opening	Screen	20.80	29.80	50	PVC; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00		Graded; GS: 2- 5mm; Q: 11800m ³

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM TO	THICKNESS	DESC	GEO- MATERIAL	COMMENT
0.00 0.40	0.40	FILL, CLAY, (REWORKED NATURAL) DRY, STIFF		
0.40 7.50	7.10	SAND AND SANDY CLAY, DARK BROWN WITH CLAY LENSES FROM 4.5m		
7.50 10.90	3.40	SHALE,LAMINATED SANDSTONE,DARK GREY,MEDIUM STRENGTH		
10.90 29.80	18.90	SANDSTONE,LIGHT GREY/WHITE,MEDIIUM GRAINED		

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Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW109799

Works Details (top)

GROUNDWATER NUMBER	GW109799
LIC-NUM	10BL601720
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2007-01-29
FINAL-DEPTH (metres)	22.80
DRILLED-DEPTH (metres)	22.80
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	GLENFIELD WASTE DISPOSALS
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6240430.00 EASTING 306736.00 33 57' 32" LATITUDE LONGITUDE 150 54' 30" **GS-MAP**

Form-A (top)

COUNTY CUMBERLAND PARISH MINTO PORTION-LOT-DP 22//230435

Licensed (top)

COUNTYCUMBERLANDPARISHMINTOPORTION-LOT-DP22 230435

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE NO	- PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	8.80	100			Auger - Solid Flight
1		Hole	Hole	8.80	22.80	100			Auger - Solid Flight
1	1	Casing	P.V.C.	-0.40	17.00	50			Screwed
1	1	Opening	Screen	17.00	22.80	50			PVC; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 2- 5mm; Q: 6800m ³

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO- MATERIAL	COMMENT
0.00	3.00	3.00	SANDY CLAY LOAM, BROWN, FINE TO MEDIUM GRAIN, DRY		
3.00	7.50	4.50	SILTY SANDY CLAY,BROWN,MEDIUM GRAINED,DRY		
7.50	8.50	1.00	CLAYEY SAND,LIGHT GREY,MEDIUM GRAINED,DRY TO MOIST		
			SHALE, DARK GREY, MEDIUM		

13.00 4.50	STRENGTH,WATER FROM 8m
15.00 2.00	WEATHERED SHALE AND LAMINATED SANDSTONE,GREY
22.80 7.80	SANDSTONE,LIGHT GREY,FINE TO MEDIUM GRAINED
	13.00 4.50 15.00 2.00 22.80 7.80

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Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW109798

Works Details (top)

GROUNDWATER NUMBER	GW109798
LIC-NUM	10BL601720
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2007-01-29
FINAL-DEPTH (metres)	29.80
DRILLED-DEPTH (metres)	29.80
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	GLENFIELD WASTE DISPOSALS
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6240724.00 EASTING 306970.00 33 57' 23" LATITUDE LONGITUDE 150 54' 40" **GS-MAP**

Form-A (top)

 COUNTY
 CUMBERLAND

 PARISH
 MINTO

 PORTION-LOT-DP
 22//230435

Licensed (top)

COUNTYCUMBERLANDPARISHMINTOPORTION-LOT-DP22 230435

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD ID (mm) (mr	n) INTERVAL	DETAIL
1		Hole	Hole	0.00	10.00	100		Auger - Solid Flight
1		Hole	Hole	10.00	29.80	100		Auger - Solid Flight
1	1	Casing	P.V.C.	-0.70	23.80	50		Screwed
1	1	Opening	Screen	23.80	29.80	50		PVC; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00			Graded; GS: 2- 5mm

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO- MATERIAL	COMMENT
0.00	3.50	3.50	SANDY CLAY, BROWN, FINE TO MEDIUM GRAINED		
3.50	9.00	5.50	SANDY CLAY, LIGHT GREY, DRY TO MOIST		
9.00	10.00	1.00	SILTY SAND,WET BROWN,DARK GREY,COURSE GRAINED		
10.00	20.50	10.50	SHALE,DARK GREY,MEDIUM STRENGTH,TRACE CLAY		

20.50	22.50 2.00	SHALE.LAMINATED SANDSTONE,DARK GREY
22.50	29.80 7.30	SANDSTONE, LIGHT GREY, MEDIUM GRAINED

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Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW108804

Works Details (top)

GROUNDWATER NUMBER	GW108804
LIC-NUM	10BL601719
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	Equipped - bore used for obs
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2008-04-22
FINAL-DEPTH (metres)	11.00
DRILLED-DEPTH (metres)	11.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	GLENFIELD WASTE DISPOSALS
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6240274.00 EASTING 307015.00 33 57' 37" LATITUDE LONGITUDE 150 54' 41" **GS-MAP**

Form-A (top)

COUNTY CUMBERLAND PARISH MINTO PORTION-LOT-DP 50//229438

Licensed (top)

COUNTYCUMBERLANDPARISHMINTOPORTION-LOT-DP50 229438

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD ID (mm) (mm) INTERVAL	DETAIL
1		Hole	Hole	0.00	11.00	100	Auger - Solid Flight
1	1	Casing	P.V.C.	-0.75	5.00	50	Screwed
1	1	Opening	Screen	5.00	11.00	50	PVC; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00		Graded; GS: 2- 5mm; Q: 4500m ³

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM TO	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00 7.50	7.50	SAND, BROWN, FINE TO MEDIUM GRAINED	
7.50 10.00	2.50	CLAY,ORANGE,GREY,CLAYEY SAND,DRY	
10.00 11.00	1.00	WEATHERED SHALE.DARK GREY	

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Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW108802

Works Details (top)

GROUNDWATER NUMBER	GW108802
LIC-NUM	10BL601723
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	Equipped - bore used for obs
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2008-04-21
FINAL-DEPTH (metres)	23.70
DRILLED-DEPTH (metres)	23.70
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	GLENFIELD WASTE DISPOSALS
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6239299.00 EASTING 307099.00 33 58' 9" LATITUDE 150 54' 43" LONGITUDE **GS-MAP**

Form-A (top)

COUNTY CUMBERLAND PARISH MINTO PORTION-LOT-DP 2//333578

Licensed (top)

COUNTY CUMBERLAND PARISH MINTO PORTION-LOT-DP 2 333578

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD ID (mm) (n	DETAIL
1		Hole	Hole	0.00	4.00	100	Auger - Solid Flight
1		Hole	Hole	4.00	23.70	100	Other
1	1	Casing	P.V.C.	0.70	14.70	50	Screwed
1	1	Opening	Screen	14.70	23.70	50	PVC; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00		Graded; GS: 2- 5mm; Q: 1000m ³

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO- MATERIAL	COMMENT
0.00	3.20	3.20	FILL,CLAY,GRAVELS AND SAND		
3.20	7.00	3.80	SANDY CLAY, BROWN DRY		
7.00	7.50	0.50	SANDY CLAY,BROWN,RED,GREY CLAY,GRAVELS		
7.50	8.00	0.50	WEATHERED SANDSDTONE L/GREY		
8.00	11.30	3.30	WEATHERED SHALE.SANDSTONE		
11.30	12.00	0.70	SAND,COARSE GRAINED,ORANGE,BLACK		
12.00	23.70	11.70	SANDSTONE. L/GREY, MEDIUM GRAINED		

Groundwater Works Summary

For information on the meaning of fields please see <u>Glossary</u> Document Generated on Monday, October 11, 2010

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW016829

Works Details (top)

GROUNDWATER NUMBER	GW016829
LIC-NUM	10BL007470
AUTHORISED-PURPOSES	DOMESTIC
INTENDED-PURPOSES	GENERAL USE
WORK-TYPE	Well
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	(Unknown)
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	1958-02-01
FINAL-DEPTH (metres)	5.40
DRILLED-DEPTH (metres)	0.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	603 - SYDNEY BASIN
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details (top)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	213 - SYDNEY COAST - GEORGES RIVER
AREA-DISTRICT	
CMA-MAP	9030-2S
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	(Unknown)
NORTHING	6243074.00
EASTING	308350.00
LATITUDE	33 56' 7"
LONGITUDE	150 55' 35"
GS-MAP	0056D4

AMG-ZONE 56 COORD-SOURCE GD.,ACC.MAP REMARK

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	58

Licensed (top)

COUNTY CUMBERLAND PARISH HOLSWORTHY PORTION-LOT-DP A 752034

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	Concrete Cylnder	-0.90	-0.90	2006			(Unknown)

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT-DESC	S- D W-L L	- YIELD	TEST- HOLE- DEPTH (metres)	DURATION SALINITY
4.20	5.40	1.20	(Unknown)	3.60	2.27		(Unknown)

Drillers Log (top)

no details

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Groundwater Works Summary

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Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW110395

Works Details (top)

GROUNDWATER NUMBER	GW110395
LIC-NUM	10BL165522
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2005-09-07
FINAL-DEPTH (metres)	8.50
DRILLED-DEPTH (metres)	8.50
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A B B AUSTRALIA
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	6.80
SALINITY	
YIELD	

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN AREA-DISTRICT CMA-MAP GRID-ZONE** SCALE **ELEVATION ELEVATION-SOURCE** NORTHING 6242502.00 EASTING 307830.00 33 56' 26" LATITUDE LONGITUDE 150 55' 14" **GS-MAP**

Form-A (top)

COUNTY	CUMBERLAND
PARISH	HOLSWORTHY
PORTION-LOT-DP	2//32998

Licensed (top)

COUNTYCUMBERLANDPARISHHOLSWORTHYPORTION-LOT-DP2 32998

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	8.50	125			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	5.20	63			Screwed; Seated on Bottom
1	1	Opening	Screen	5.20	8.20	63			PVC Class 18; A: .4mm; Screwed
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 1- 2mm

Water Bearing Zones (top)

no details

Drillers Log (top)

FROM	TO THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	0.90 0.90	FILL, GRAVELLY SAND	
0.90	1.50 0.60	SANDY CLAY L/PLASTICITY, RED/BROWN	
1.50	2.30 0.80	GRADING INTO CLAYEY SAND	
2.30	8.50 6.20	SAND,F/M/GRAINED,RED/BROWN/CLAY	

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Appendix D

Certificates of title



ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068) ABN 49 077 067 068

PO Box 149 Yagoona NSW 2199

 Telephone:
 +612
 9754
 1590

 Mobile:
 0412
 169
 809

 Facsimile:
 +612
 9754
 1364

 Email:
 alsearch@optusnet.com.au

18th October 2010

PARSONS BRINCKERHOFF AUSTRALIA PTY LIMITED GPO Box 5394, SYDNEY NSW 2001

Attention: Lisa Warwick

RE:

Moorebank Avenue, Moorebank

Note 1:	Lot 3001	DP 1125930
Note 2:	Lot 100	DP 1049508
Note 3:	Lot 101	DP 1049508
Note 4:	Lot 2	DP 547293

Note 1:

Current Search

Folio Identifier 3001/1125930 (title attached) DP 1125930 (plan attached) Dated 12th October 2010 Registered Proprietor: **COMMONWEALTH OF AUSTRALIA**

Title Tree Lot 3001 DP 1125930

Folio Identifier 3001/1125930

Folio Identifier 500/1075886

Folio Identifier 2001/1064082

Folio Identifier 1003/1050177

Folio Identifier 2/1048263

Folio Identifier 56/1040763

Folio Identifier 1403/848565

Folio Identifier 2001/835590

Folio Identifier 2/825745

Certificate of Title Volume 1196 Folio 99

Summary of Proprietors Lot 3001 DP 1125930

Year

Proprietor

	(Lot 3001 DP 1125930)
2008 - todate	Commonwealth of Australia
	(Lot 4962 DP 873608)
2006 - 2008	Commonwealth of Australia
1997 – 2006	Defence Housing Authority
	(Lot 1402 DP 848565)
1995 – 1997	Defence Housing Authority
1995 – 1995	Commonwealth of Australia
	(Lot 2001 DP 835590)
1993 – 1995	Commonwealth of Australia
	(Lot 2 DP 825745)
1993 – 1993	Commonwealth of Australia
	(Lots 6, 7, 8 & 9 Section 3 DP 2411 and other lands – Area 6935
	Acres 0 Roods 36 Perches – CTVol 1196 Fol 99)
1913 – 1993	The Commonwealth of Australia
	(acquired for the purposes of defence)
1896 – 1913	The Church of England Property Trust Dioceses of Sydney

Note 2:

Current Search

Folio Identifier 100/1049508 (title attached) DP 1049508 (plan attached) Dated 12th October 2010 Registered Proprietor: **COMMONWEALTH OF AUSTRALIA**

Title Tree Lot 100 DP 1049508

Folio Identifier 100/1049508

(a)

(b)

Folio Identifier 1/832269 Folio Identifier 2/832269

Folio Identifier 1/547293

Certificate of Title Volume 11651 Folio 249

Certificate of Title Volume 3788 Folio 87

Summary of Proprietors Lot 100 DP 1049508

Year

Proprietor

	(Lot 100 DP 1049508)
2003 - todate	Commonwealth of Australia

See Notes (a) & (b)

Note (a)

	(Lot 1 DP 832269)
1993 – todate	Commonwealth of Australia
	(Lot 1 DP 547293)
1988 – 1993	Commonwealth of Australia
	(Lot 1 DP 547293 – CTVol 11651 Fol 249)
1971 – 1988	Commonwealth of Australia
	(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852
	Acres 3 Roods 24 ¹ / ₂ Perches – CTVol 3788 Fol 87)
1925 – 1971	Commonwealth of Australia

Note (b)

	(Lot 5 DP 832269)
1993 – todate	Commonwealth of Australia
	(Lot 1 DP 547293)
1988 – 1993	Commonwealth of Australia
	(Lot 1 DP 547293 – CTVol 11651 Fol 249)
1971 – 1988	Commonwealth of Australia
	(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852
	Acres 3 Roods 24 1/2 Perches – CTVol 3788 Fol 87)
1925 – 1971	Commonwealth of Australia

Note 3:

Current Search

Folio Identifier 101/1049508 (title attached) DP 1049508 (plan attached) Dated 12th October 2010 Registered Proprietor: **THE COUNCIL OF THE CITY OF LIVERPOOL**

Title Tree Lot 101 DP 1049508

Folio Identifier 100/1049508

(a)

(b)

Folio Identifier 1/832269 Folio Identifier 2/832269

Folio Identifier 1/547293

Certificate of Title Volume 11651 Folio 249

Certificate of Title Volume 3788 Folio 87

-7-

Summary of Proprietors Lot 101 DP 1049508

Year

Proprietor

	(Lot 101 DP 1049508)
2003 – todate	Commonwealth of Australia

See Notes (a) & (b)

Note (a)

	(Lot 1 DP 832269)
1993 – todate	Commonwealth of Australia
	(Lot 1 DP 547293)
1988 – 1993	Commonwealth of Australia
	(Lot 1 DP 547293 – CTVol 11651 Fol 249)
1971 – 1988	Commonwealth of Australia
	(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852
	Acres 3 Roods 24 1/2 Perches – CTVol 3788 Fol 87)
1925 – 1971	Commonwealth of Australia

Note (b)

	(Lot 5 DP 832269)
1993 – todate	Commonwealth of Australia
	(Lot 1 DP 547293)
1988 – 1993	Commonwealth of Australia
	(Lot 1 DP 547293 – CTVol 11651 Fol 249)
1971 – 1988	Commonwealth of Australia
	(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852
	Acres 3 Roods 24 1/2 Perches – CTVol 3788 Fol 87)
1925 – 1971	Commonwealth of Australia

Note 4:

Current Search

Folio Identifier 2/547293 (title attached) DP 547293 (plan attached) Dated 12th October 2010 Registered Proprietor: **ABB AUSTRALIA PTY LIMITED**

Title Tree Lot 2 DP 547293

Folio Identifier 2/547293

Certificate of Title Volume 11651 Folio 250

Certificate of Title Volume 3788 Folio 87

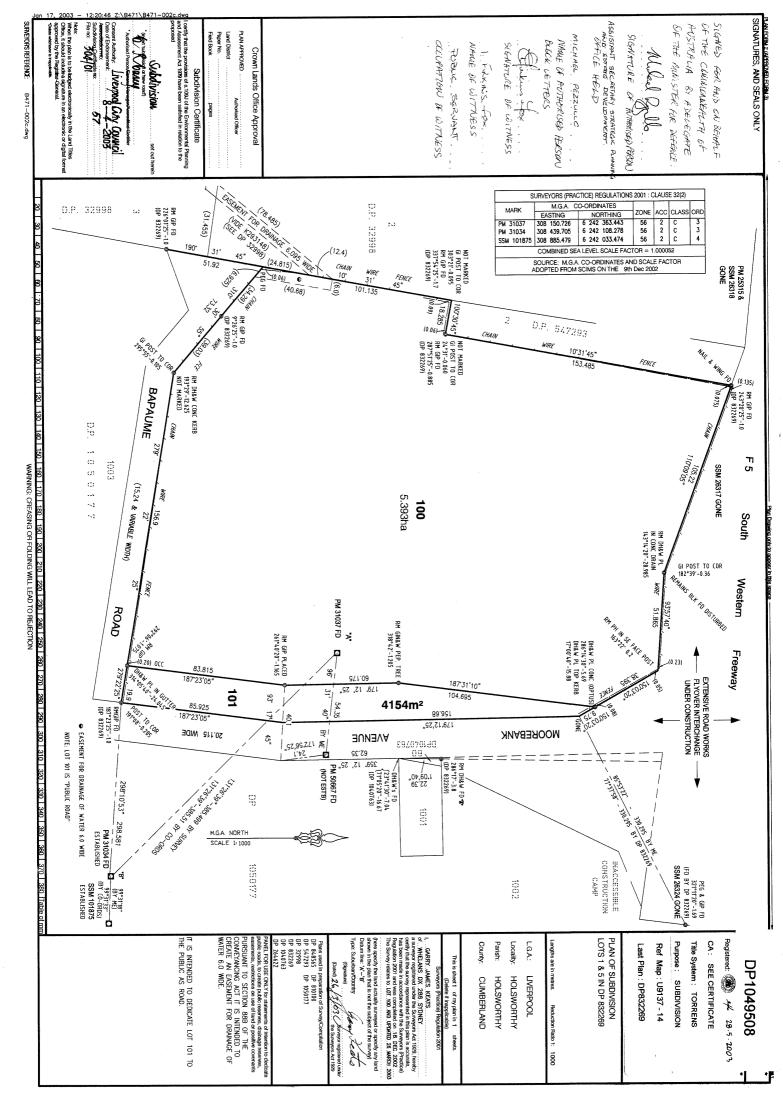
Commonwealth Government Gazette 7 March 1913 Page 535

Summary of Proprietors Lot 2 DP 547293

Year

Proprietor

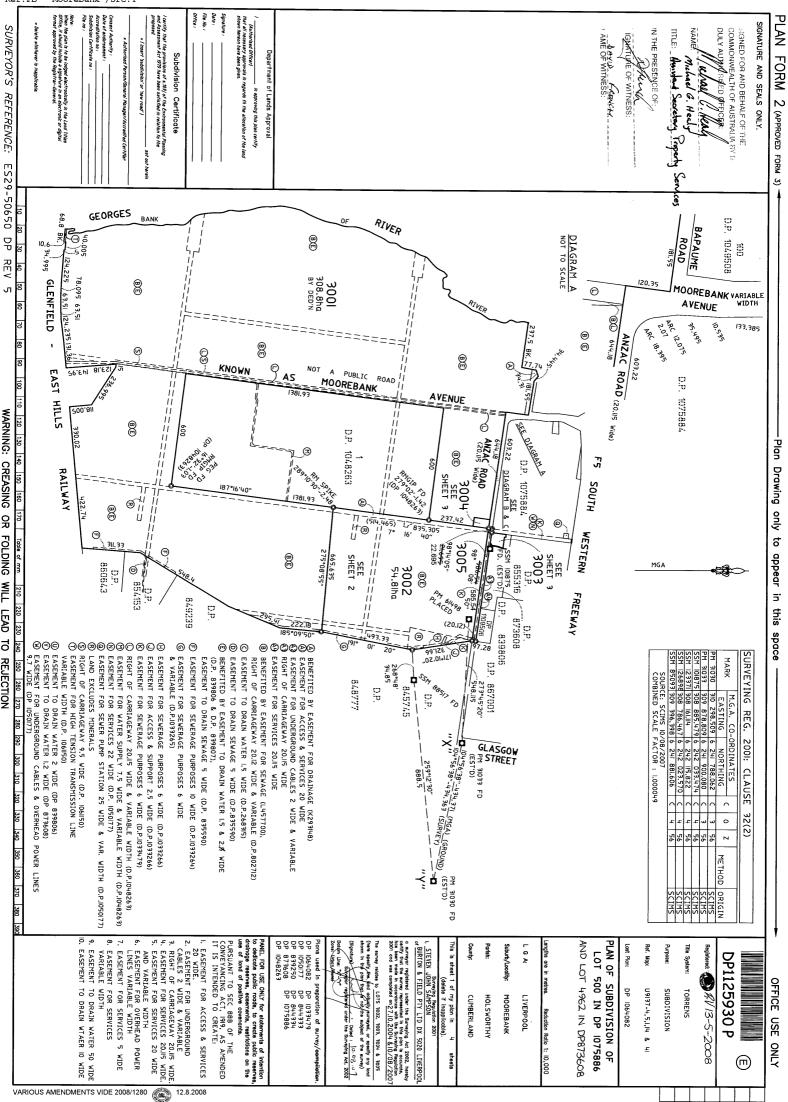
	(L - 4 2 DD 5 47202)
	(Lot 2 DP 547293)
2001 – todate	ABB Australia Pty Ltd
2001 - 2001	Asea Brown Boveri Pty Limited
1988 - 2001	ABB T & D Administrative Services Pty Ltd
	(formerly Moorebank Properties Pty Ltd)
	(Lot 2 DP 547293 – CTVol 11651 Fol 250)
1972 – 1988	Moorebank Properties Pty Ltd
1972 – 1972	Tyre Electrical Co Pty Ltd
1971 – 1972	Commonwealth of Australia
	(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852
	Acres 3 Roods 24 1/2 Perches – CTVol 3788 Fol 87)
1925 – 1971	Commonwealth of Australia

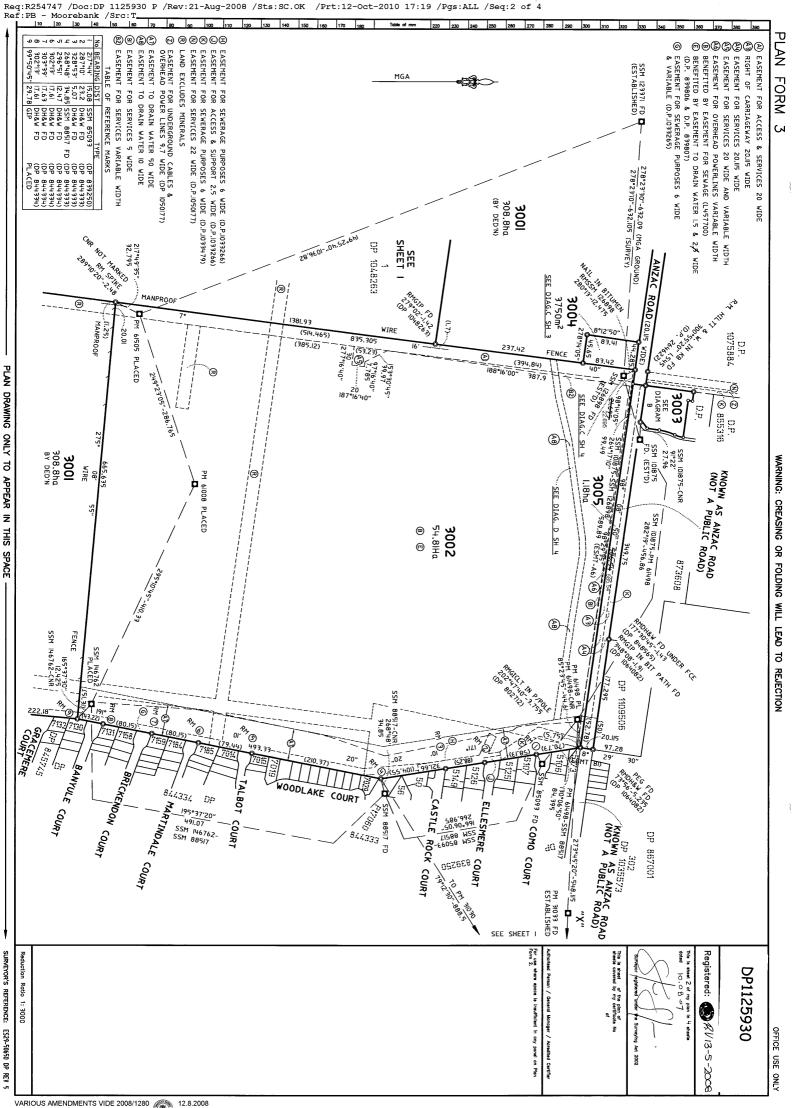


Req:R254748 /Doc:DP 1049508 P /Rev:29-May-2003 /Sts:SC.OK /Prt:12-Oct-2010 17:19 /Pgs:ALL /Seq:1 of 1 Ref:PB - Moorebank /Src:T Req:R254749 /Doc:DP 0547293 P /Rev:29-Jan-1996 /Sts:OK.OK /Prt:12-Oct-2010 17:19 /Pgs:ALL /Seq:1 of 1 Ref:PB - Moorebank /Src:T

p.P. 547293 DP547293 Plan Form 1 67/127 OFFICE USE ONLY PLAN OF E D. P. 547293 Subdivision of part of the land comprised in C.T. Vol.3788 Fo. 87 being part of the 118 9.8.1971 V land acquired by notification in Commonwealth Registered: of Australia Gaz. Nº 16 of 7-3-1913 page, 535 and C.A.: No. 1970/62 of 23-10-1970 being part Lots 73 to 76 incl. Sec. 4 D.P. 2411 ◄ Liverpool Mun:/Shire/City Title System: Torrens Moorebank Purpose: Subdivision ◄ Town or Locality... 2 Ref. Map: Parish Holsworthy Parish Q 0 Last Plan: D, P, 2411 Cumberland 200 feet to an inch County Scale Z P.M.G.1.P.00*-3'05% P "B",01" 201 9 8 4 ∬**`A**" . 879 57/ P.14-CO^{NC} 00 00 - 4 3¹⁴ 2450 CONVERSION TABLE ADDED IN REGISTRAR GENERAL'S DEPARTMEN 2C 45 Ø 2 B. NETTING. 345/2 20 % 85° 2 DP 547293 3 METRES FEET INCHES 0.015 0.025 0.46 0.465 0.93 1.3 4.42 M/P Cyclo 0 5/8 1 6 1/8 6 1/4 1/8 1/4 5/8 1/4 MOOREBANK 8 $^{+4}$ 500 669 962 669 962 2011 138 1570 2291 1138 1570 2291 5145 5450 514 5580 695 2 Centre rou Steel post 2 0 1/ 2r.35/4p 1/2 1/2 1/4 3/4 1/4 3/4 45 48,165 51,89 51,92 68,29 73,33 85,9 88,76 99,9 this space 6 1/2 / 1/2 7 10 2 5/8 9 1/4 9 3/8 2 3 6 1/2 148. Hr. 17p. P. 22/0/11. 272° 20′00 60′0″ .= 14 a. 2r. 15½p. 105.21 152.17 153.48 156.67 166.17 176.85 211.87 to appear ex. roza (66'wide) 2 2 1 1/2 M. M. 179 รย ค WARNING. Plan Drawing only AC 2915 - 2 35 1/4 AC RD P На P.Y. 22)9/3, 14 2 15 1/2 5,9 AVE 547293 õ 1° 271° 10' 580'2'2 30' D 50'02 BAPAUME (50'wide) ROAD 0. P 695'11/2" Sec.4 DP 2411. 96'7% -176 270° 04' 40 of Lot WARN η 327 91° 10′ 30″ 499′3″ З ΰ 437825 centre round ste post. (1) Philip Victor Vassallo Signatures, Seals and Statements of intention to dedicate public roads or public Ι. The Department of The Interior - Sydney reserves or create drainage reserves, easements, or restrictions as to user. of... It is intended to consolidate Lot 2 with Lot 2 D.P.32998 adjoining 21 st August 1970 Surveyor Registered under Surveyors Act, 1929, as amended. Datum Line of Azimuth. "A"-"B" Amengment Noted Var Deputy Town Clerk *Strike out either (1) or (2). †Insert date of survey. F1954 2/7/71. Council Clerk's Certificate. ereby certity that_ (a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and *(b) the requirements of section 348 of the [Metropolitan Water, Sewerage, and Drainage Act, 1924, as amended, Hunter-District Water, Sewerage, and Drainage Act, 1938, as and the severage of the severage. amended, have been complied with by the applicant in relation to the proposed set out herein. 1970/62 Subdivision No. Delete if inapplicable. ÷.,,

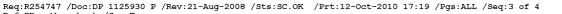
SURVEYOR'S REFERENCE. DEPT OF THE INTERIOR NEG. Nº 15437 N.S.W.

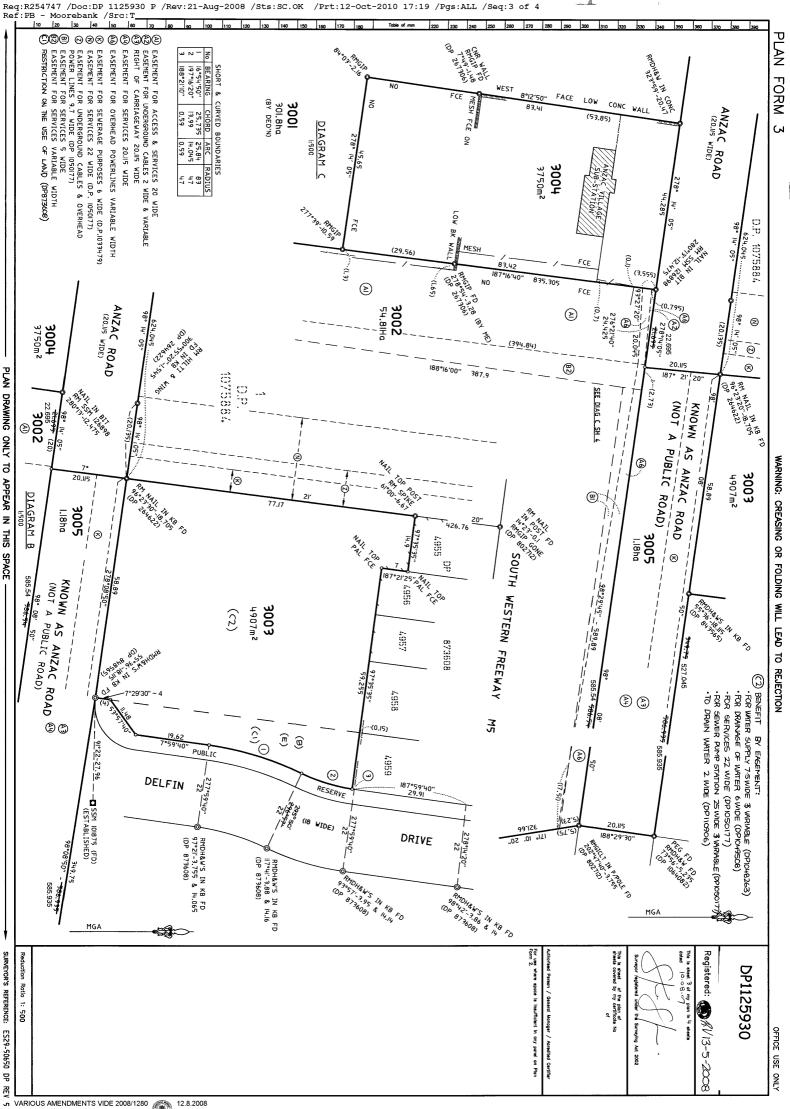




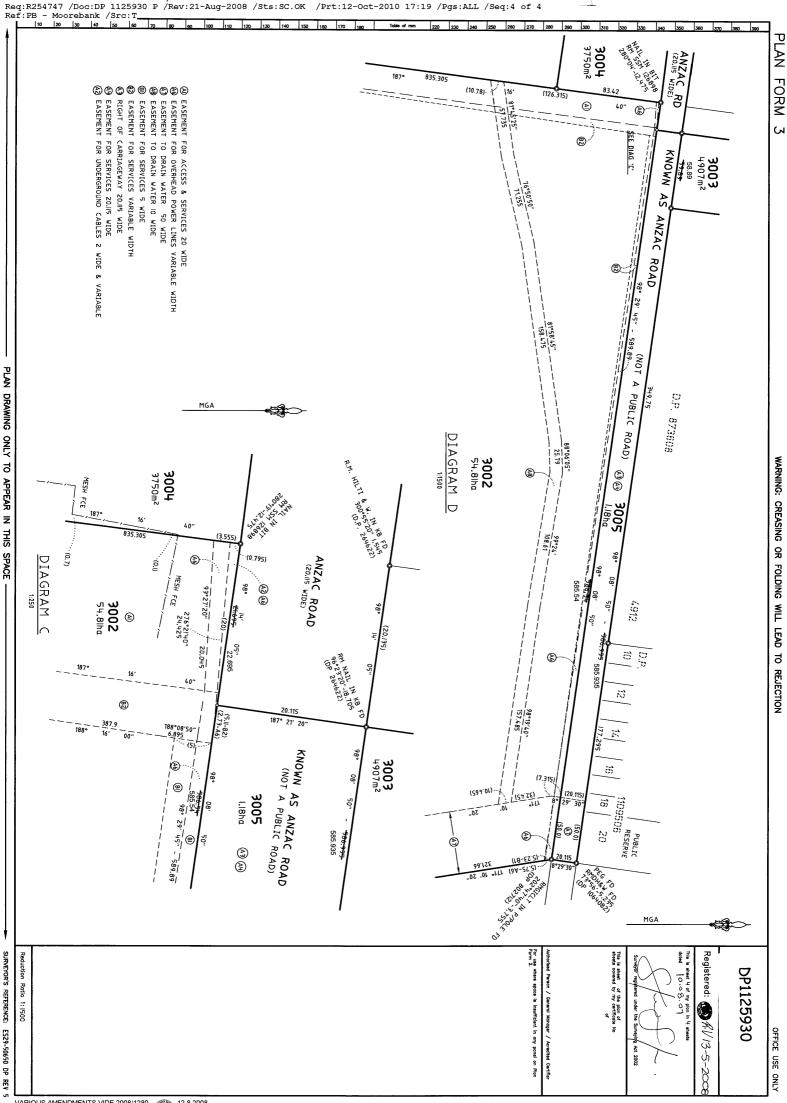
/Seq:2 of 4

/Pgs:ALL





VARIOUS AMENDMENTS VIDE 2008/1280



VARIOUS AMENDMENTS VIDE 2008/1280 12.8.2008

ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068) ABN 49 077 067 068

PO Box 149 Yagoona NSW 2199

 Telephone:
 +612
 9754
 1590

 Mobile:
 0412
 169
 809

 Facsimile:
 +612
 9754
 1364

 Email:
 alsearch@optusnet.com.au

28th October 2010

PARSONS BRINCKERHOFF AUSTRALIA PTY LIMITED GPO Box 5394, SYDNEY NSW 2001

Attention: Lisa Warwick

RE:

Land Off, Georges River, Liverpool / Moorebank

Current Search

Folio Identifier 10/881265 (title attached) DP 881265 (plan attached) Dated 23rd October 2010 Registered Proprietor: **THE COUNCIL OF THE CITY OF LIVERPOOL**

Title Tree Lot 10 DP 881265

Folio Identifier 10/881265

Folio Identifier 3/746078

Folio Identifier 1002/550917

Certificate of Title Volume 11746 Folio 151 Certificate of Title Volume 11636 Folio 137 Certificate of Title Volume 11575 Folio 134 Certificate of Title Volume 10444 Folio 10 Certificate of Title Volume 10027 Folios 44 & 45 Certificate of Title Volume 4207 Folio 212 Certificate of Title Volume 2047 Folio 210

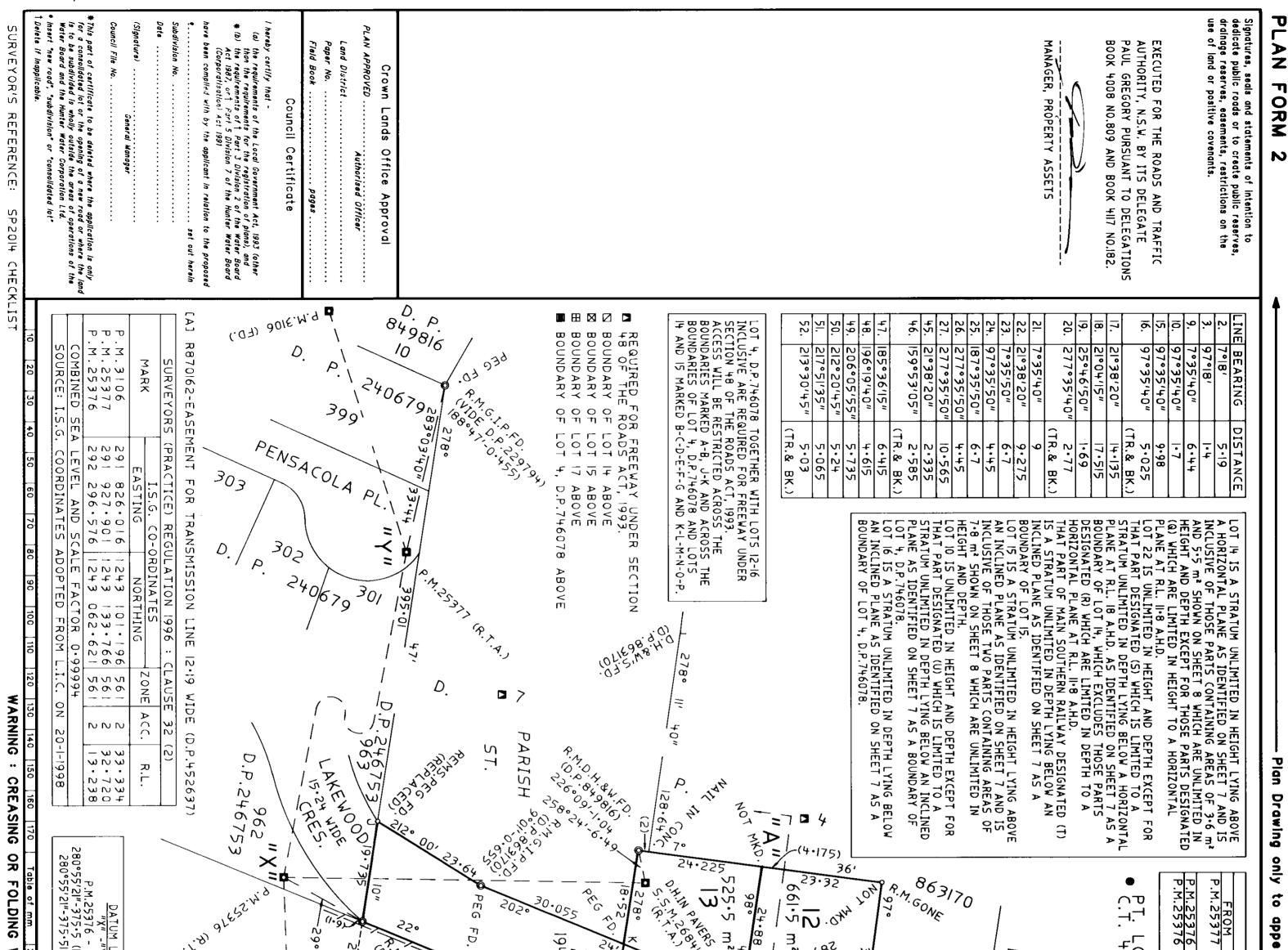
Summary of Proprietors Lot 10 DP 881265

-3-

Year

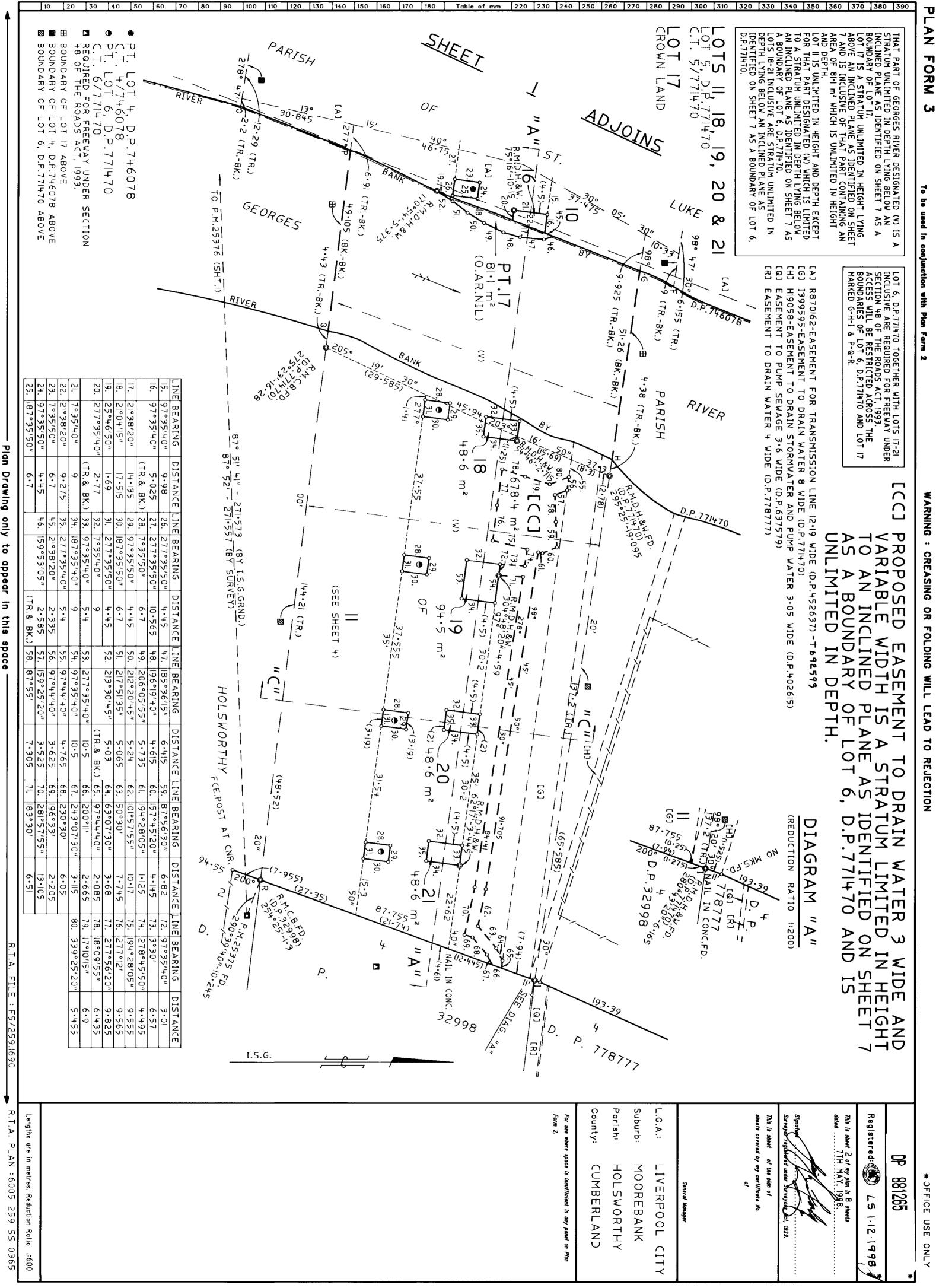
Proprietor

	(Lot 10 DP 881265)					
1999 – todate	The Council of the City of Liverpool					
	(Lot 3 DP 746078)					
1993 – 1999	The Council of the City of Liverpool					
	(Lot 1002 DP 550917)					
1988 - 1993	The Council of the City of Liverpool					
	(Lot 1002 DP 550917 – CTVol 11746 Fol 151)					
1972 – 1988	The Council of the City of Liverpool					
	(Lot 187 DP 241158 – CTVol 11636 Fol 137)					
1971 – 1972	Birnleigh Investments Pty Limited					
	(Lot 11 DP 547546 – CTVol 11575 Fol 134)					
1971 – 1971	Birnleigh Investments Pty Limited					
	(Lot 3 DP 229794 – CTVol 10444 Fol 10)					
1969 – 1971	Birnleigh Investments Pty Limited					
1969 – 1969	John Hitter (Sydney) Pty Limited					
1966 - 1969	Liverpool Golf Club Limited					
	(Lots 1 & 2 DP 515035 – CTVol 10027 Fol's 44 & 45)					
1965 - 1966	Liverpool Golf Club Limited					
	(Part Portion 270 Parish St Luke – Area 226 Acres 3 Roods					
	34 ³ / ₄ Perches – CTVol 4207 Fol 212)					
1952 - 1965	Liverpool Golf Club Limited					
(1945 – 1955)	(lease to John Gillick Marsden and Jack Jones hotelkeepers and					
	Charles Clark, orchardist)					
1943 – 1952	Thomas Ashcroft, electrical engineer					
	John Edward Kidd, company director					
(1939 – 1945)	(lease to Francis Augustine Crowe, grazier)					
1938 – 1943	Thomas Ashcroft, electrical engineer / trustee					
	Geoffrey William Andrew, engineer / trustee					
1928 - 1938	Leslie James Ashcroft, master butcher					
	(Part Portion 270 Parish St Luke and other lands – Area					
1000 1000	383 Acres 0 Roods 34 ³ / ₄ Perches – CTVol 2047 Fol 210)					
1923 – 1928	Leslie James Ashcroft, master butcher					
1910 – 1923	Edward James Ashcroft, butcher					



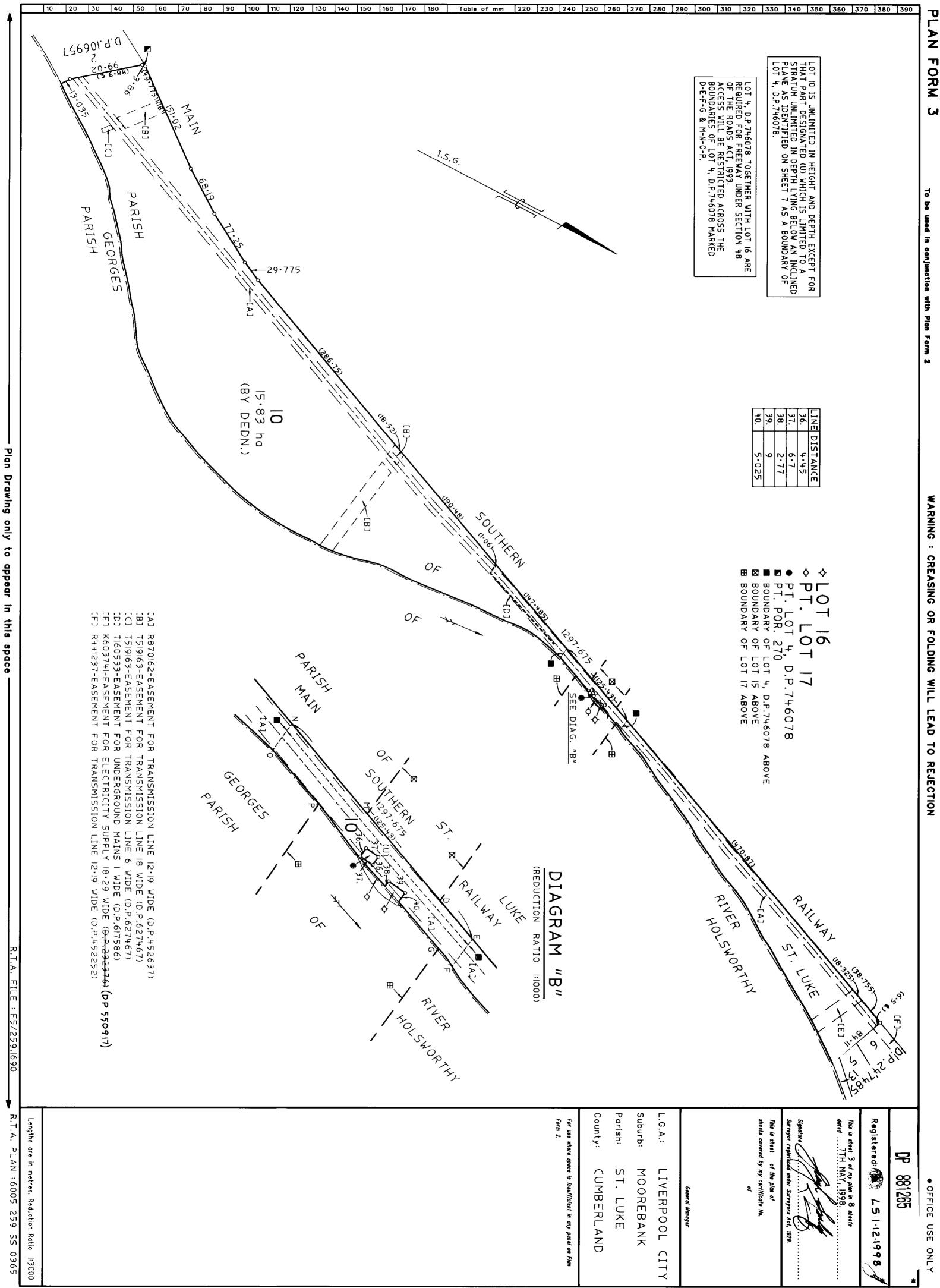
Req:R641114 /Doc:DP 0881265 P /Rev:02-Dec-1998 /Sts:OK.OK /Prt:25-Sep-2006 14:27 /Pgs:ALL /Seq:1 of 8 Ref:ALSP /Src:M

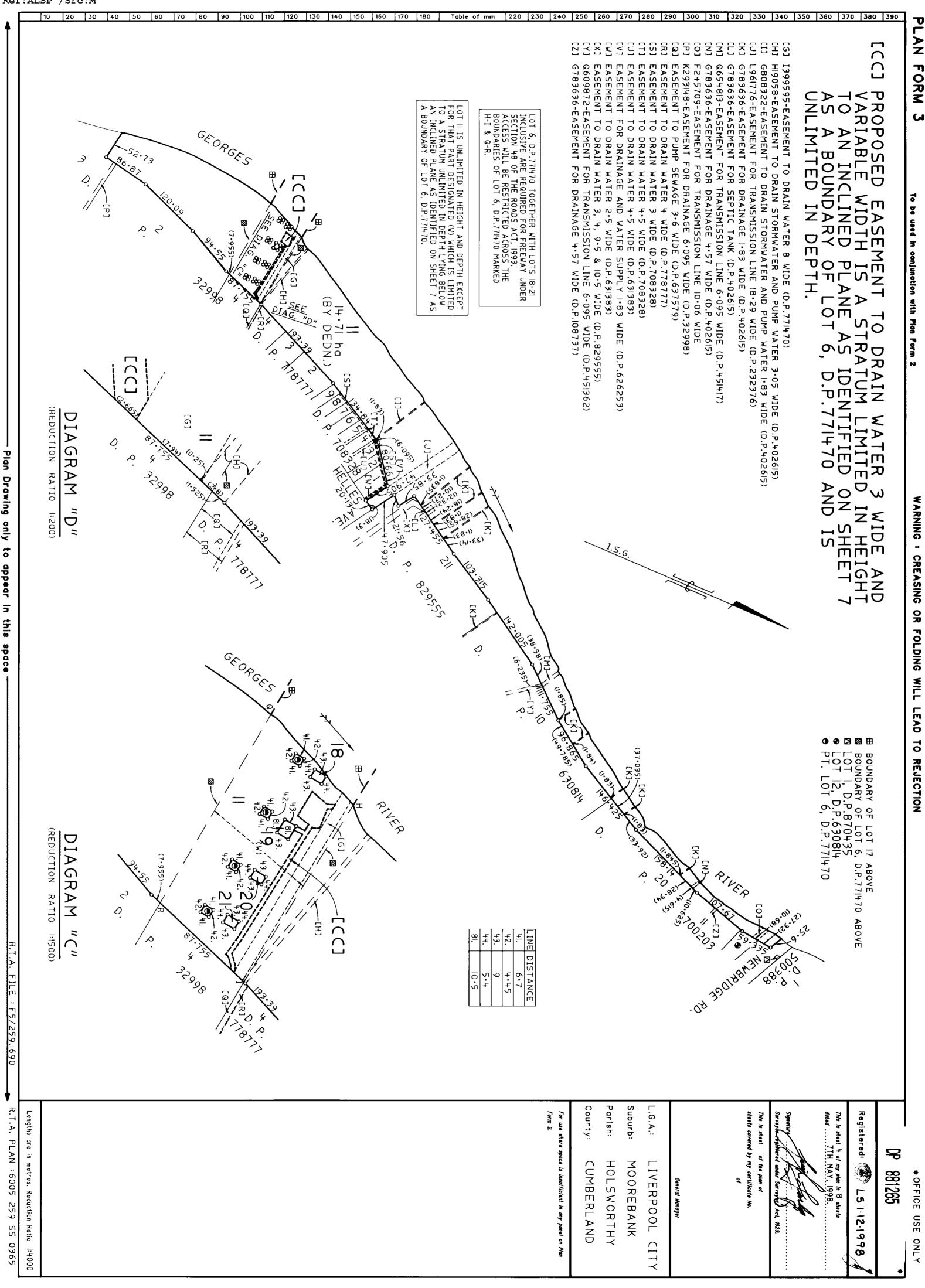
N: 6005 259 SS 0365		OTS	P.771470 NCLUSIVE NCLUSIVE UNDER ACT, 1993 ACT, 1993 ACT, 1993 ACT, 1993 C ACROSS B & J-K B & J-K B & LOTS	or t	Act 1929, hereb plan is accurate ayors (Practice) et 1970 FP 0041/2		DS A Ratio		99	
R.T.A. PLAN:	APPROVED:	D K-L-M-N-O-P-Q-R. T 22 IS TO BE DEDICATE AD UNDER SECTION 10 OF T, 1993. TS 14 & 22 SUPERSEDE L 3.863170.	restrictions on the use of land or positive covenants. LOT 4, D.P.746078; LOT 6, D.P.771470 TOGETHER WITH LOTS 12-21 INCLUSIVE ARE REQUIRED FOR FREEWAY UNDER SECTION 48 OF THE ROADS ACT, 1993. ACCESS WILL BE RESTRICTED ACROSS THE BOUNDARIES MARKED A-B & J-K AND ACROSS THE BOUNDARIES OF LOT D.P.746078; LOT 6, D.P.771470 & LOTS 14, 15 & 17 MARKED B-C-D-E-F-G-H-I	Plans used in preparation of survey / compilat "NOT WITHIN A P.S.A." TW PANEL FOR USE ONLY for statements of intention to dedicate public roads or to create	SWR ENGINEERS PTY LTD veyor registered under the Surveyors by that the survey represented in this rear made in accordance with the Surv ation 1996 and was completed on TTH MAY, 1998. TTH MAY, 1998. Line : "X"-""Y" SUBURBAN SUBURBAN A. F.BK. NOS.: 6005 259	uburb: MOOREBA arish: ST. LUKE ounty: CUMBERL This is sheet 1 of my plan i (Delete if inapplicab)	THE PURPOSES OF THE ROADS ACT Lengths are in metres. Reduction Ratio I: L.G.A.: LIVERPOOL C	ap: U 9137-13, Plan: DP 863170	Title System: TORRENS Purpose: ROAD ACT 19	Registered:
R.T.A. FILE : F5/259.1690	16 078		- PHEL'		HE PT.IT	9.925 (TRBK. 9.925 (TRBK. 16 0. AR.NIL) 40 50 50 50 50 50 50 50 50 50 5	98° (17, 30" 98° (17, 30" 98° (17, 30" 98° (17, - 5:.52 5:.52		ILWAY LIVERPOOL	~
	LOTS 10 & LOT 3, D.P.746 C.T. 3/746078		-12.29 (TR.) 2.2 (TRBK.) 	BANK B 6.91 (TR.			2000 200 2000 2	6051 60. 12.00 10.00 100	D. P. 565600	36-964 (BY SURVEY) 34-964 (BY SURVEY) 34-(BY SURVEY) 573 (BY I.S.G.GRND.) 57 (BY SURVEY)
CTION	8 RIVE		ZI (8209 hL. ZI (8209 hL. (8209 hL. (8109 hL. (8109 hL. (8109 hL.)	WIN SZ.44			2010 20 .03 11 A .03 .205	2	37	.3106 252°16'20"-10 <u>M.26844 0°57'20"-70-</u> .25375 87°51'41"-271 .25375 87°51'41"-271



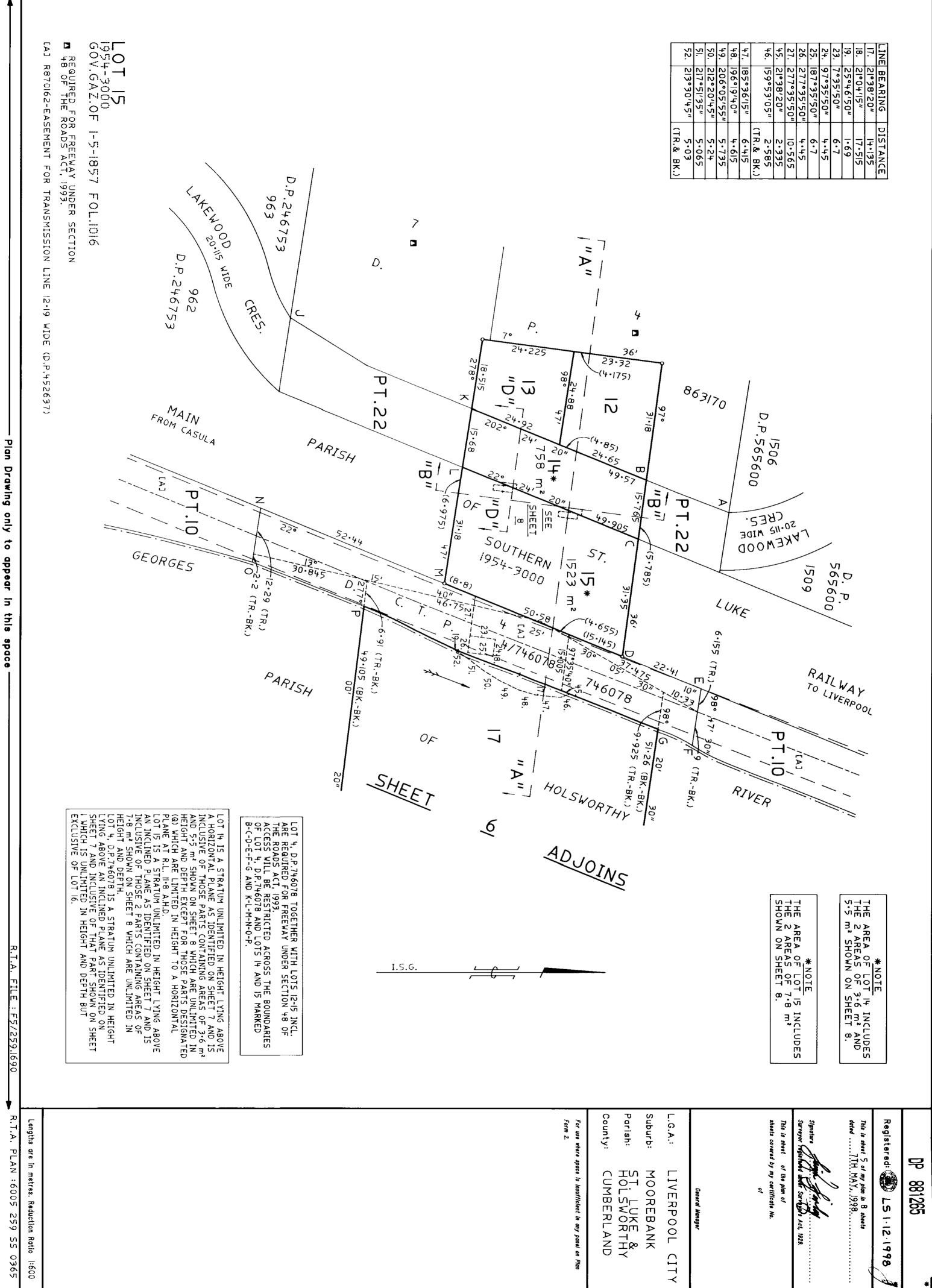
Drawing only đ appear 5 this space

WILL LEAD TO REJECTION





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WARNING : CREASING OR FOLDING

PLAN

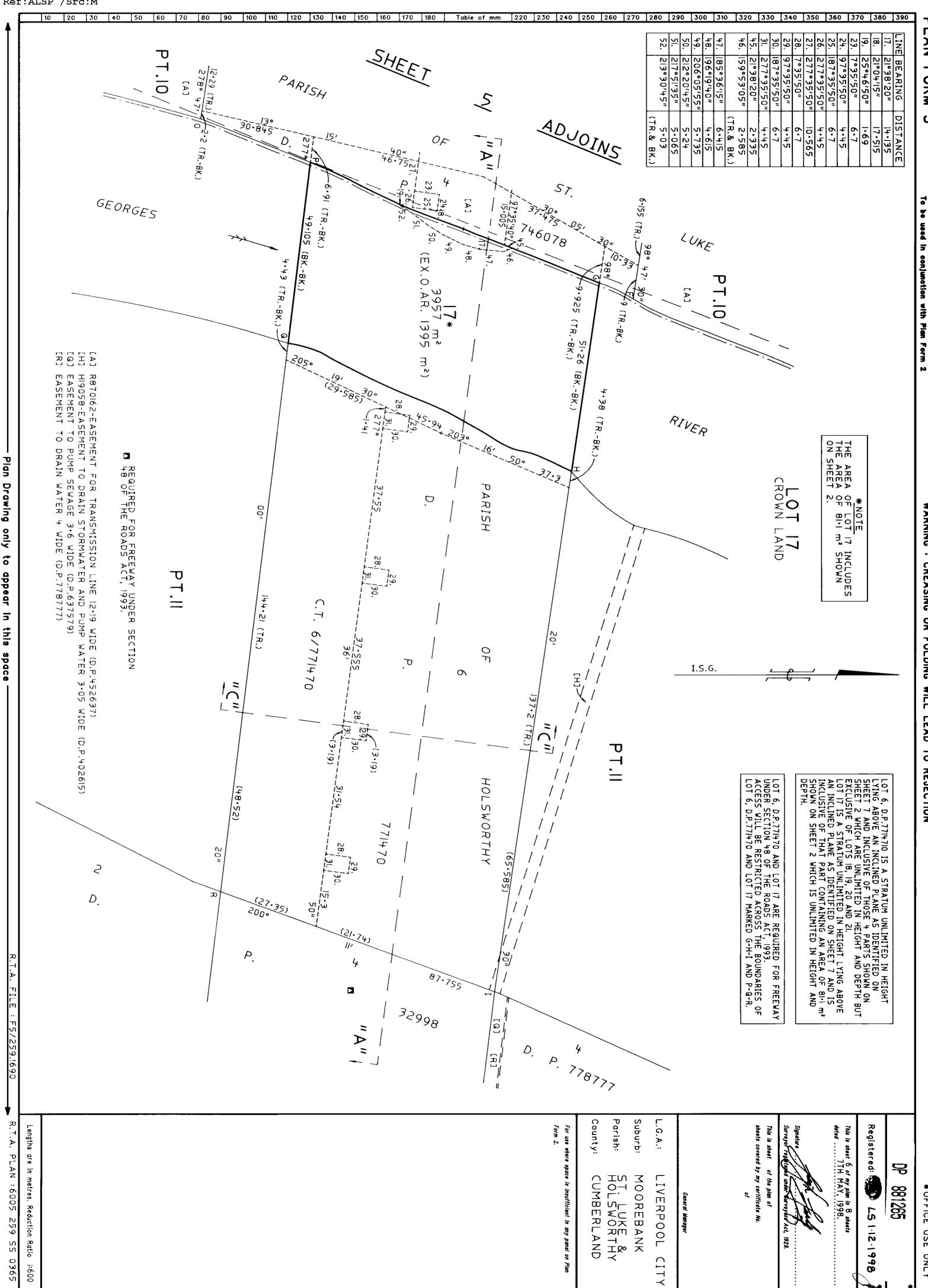
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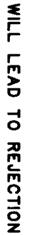
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To be used in conjunction with Plan Form

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Req:R641114 /Doc:DP 0881265 P /Rev:02-Dec-1998 /Sts:OK.OK /Prt:25-Sep-2006 14:27 /Pgs:ALL /Seq:6 of 8-Ref:ALSP /Src:M



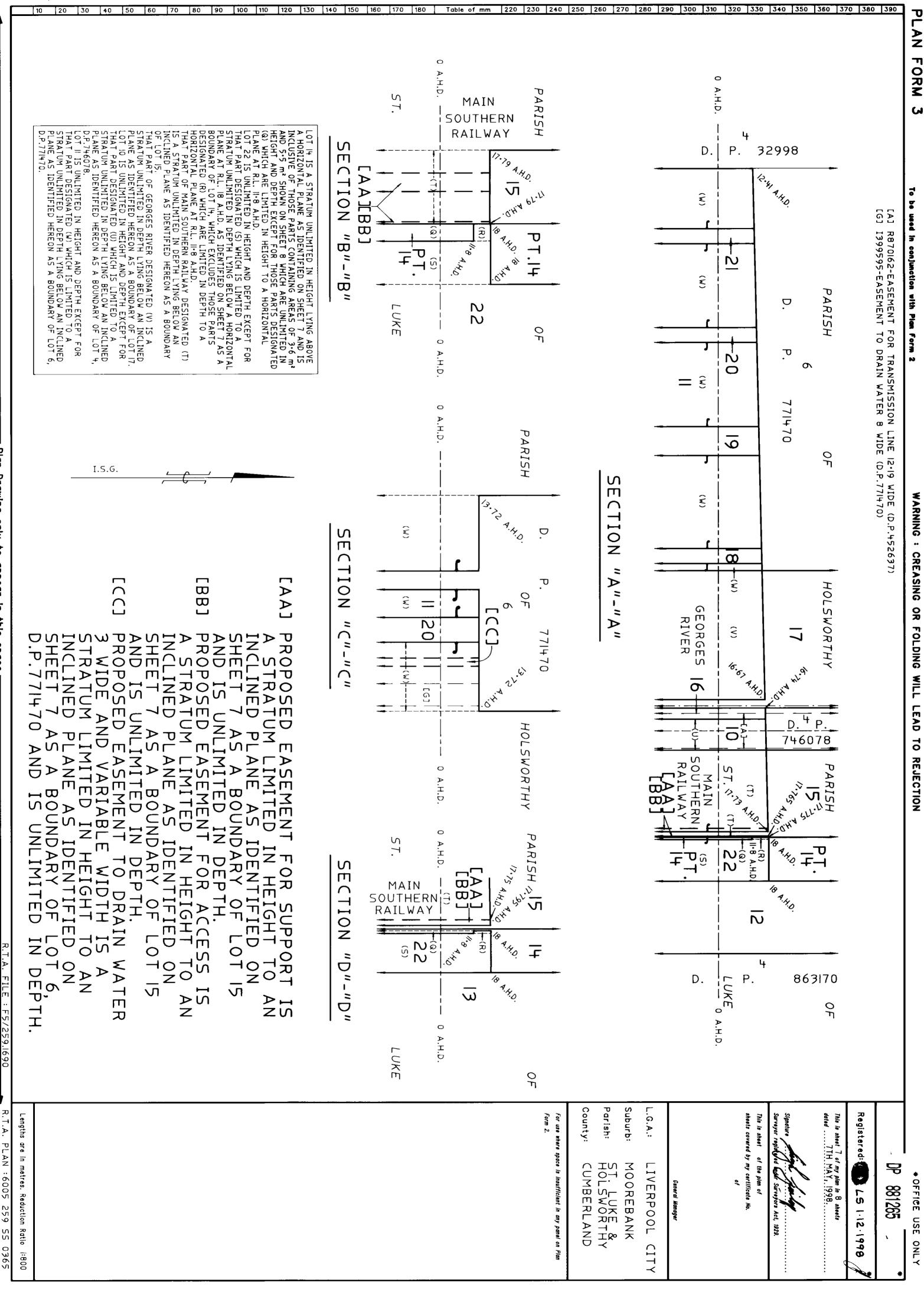


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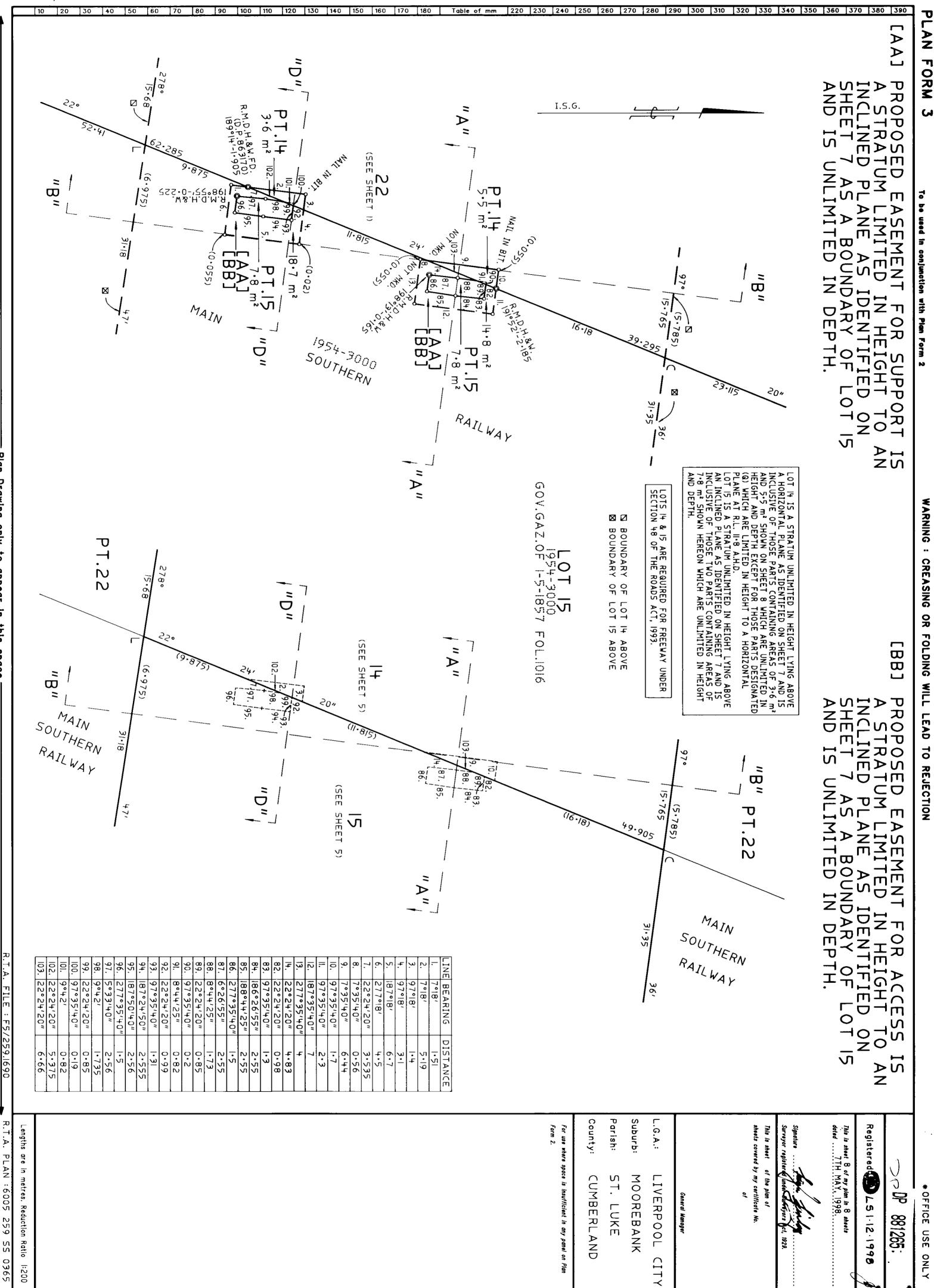
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Plan Drawing only to appear in this space



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Appendix E

Section 149 certificates





Ref.: EMAIL Ppty: 164539

Applicant: PARSONS BRINCKERHOFF LEVEL 27, 680 GEORGE STREET SYDNEY NSW 2001
 Cert. No.:
 2203

 Page No.:
 1

 Receipt No.:
 1821329

 Receipt Amt.:
 100.00

 Date:
 11-Nov-2010

Owner: (as recorded by Council): DEPT OF FINANCE & ADMINISTRATION DOMESTIC PROPERTY GROUP PO BOX 1920 CANBERRA ACT 2601

Property Desc: LOT 100 BAPAUME ROAD, MOOREBANK NSW 2170 LOT 100 DP 1049508

PART A PRESCRIBED INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation, 1998.



Cert. No.: 2203 Page No.: 2

1. Names of Relevant LEP's, DCP's, REPs, and SEPPs

(1) (a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below: -

Name of Instrument: Liverpool Local Environmental Plan 2008 Name of Zone: IN1 General Industrial

(1)(b) Draft Local Environmental Plan(s)

The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below: -

 Name of Draft Instrument:
 Draft Liverpool Local Environmental Plan 2008

 Amendment No:
 5 – Anomalies

 Name of Zone:
 Subject to all zones

(1) (c) Development Control Plan(s) under Section 72
 The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below: -

Liverpool Development Control Plan 2008 (as amended).

Development Control Plan(s) under Section 51A The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows: -

Nil

(2)(a) Regional Environmental Plan(s)

The names of each Regional Environmental Plan applying to the land is/are listed below:

Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

(2)(b) Draft Regional Environmental Plan(s)

The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

Nil



PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Cert. No.: 2203 Page No.: 3

(3)(a) State Environmental Planning Policy(s) The names of each State Environmental Planning Policy applying to the land are listed below: -State Environmental Planning Policy No. 6 – Number of Storeys in a Building State Environmental Planning Policy No. 19 - Bushland in Urban Areas State Environmental Planning Policy No. 21 - Caravan Parks State Environmental Planning Policy No. 30 – Intensive Agriculture State Environmental Planning Policy No. 32 - Urban Consolidation (Redevelopment of Urban Land) State Environmental Planning Policy No. 33 – Hazardous and Offensive Development State Environmental Planning Policy No. 44 - Koala Habitat State Environmental Planning Policy No. 50 – Canal Estate Development State Environmental Planning Policy No. 55 - Remediation of Land State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008 State Environmental Planning Policy No 62 – Sustainable Aquaculture State Environmental Planning Policy No. 64 - Advertising and Signage State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development State Environmental Planning Policy – (Building Sustainability Index: BASIX) 2004 State Environmental Planning Policy - (Major Development) 2005 State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009 State Environmental Planning Policy - (Infrastructure) 2007 State Environmental Planning Policy - (Mine, Petrol Prod and Extractive Ind) 2007 State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007 State Environmental Planning Policy - (Affordable Rental Housing) 2009

3(b) Draft State Environmental Planning Policy(s) The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below: -

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

ZONING AND LAND USE UNDER RELEVANT LOCAL ENIVIRONMENTAL PLANS
 (a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in: -

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -



Cert. No.: 2203 Page No.: 4

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House

The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below: -

The land's dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land

(f) Critical Habitat

The provisions applying to the land that relate to critical habitat is/are outlined below: -

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.



Cert. No.: 2203 Page No.: 5

(g) Conservation Area The provisions applying to the land that relate to a conservation areas is/are outlined below: -

Land is not located in a Conservation Area.

(h) Environmental Heritage The provisions applying to the land that relate to an item of environmental heritage is/are outlined below: -

An item of Environmental Heritage is not situated on the land.

3. COMPLYING DEVELOPMENT

Complying development under the Housing Internal Alterations Code may be carried out on the land.

Complying Development under the General Commercial and Industrial Code may be carried out on this land.

Complying development under the General Housing Code may not be carried out on the land.

This land is excluded being land that is identified in as being bush fire prone land.

4. Coastal Protection Act 1979

There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. Mine Subsidence

The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. Road Widening and Road Realignment The provisions applying to the land that relate to road widening or road realignment is/are outlined below: -

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

- 7. Council and Other Public Authority Policies on Hazard Risk Restrictions The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below: -
 - (a) Council Policy Other Risks

The land is not affected by a policy adopted by Council that restricts the development

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471

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Cert. No.: 2203 Page No.: 6

of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence 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 sulphate soils. 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, subsidence, acid sulphate soils 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.

(b) Public Authority Policies

The land is not affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

- 1. Development on the subject land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).
- 2. Development on the subject land for any purpose is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).
- 3. The expressions "dwelling houses, "dual occupancies," "multi dwelling housing" and "residential flat buildings" as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of "group homes" or "seniors housing".
- 8. Land Reserved for Acquisition The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below: -

Nil

Liverpool Local Environmental Plan 2008 applies to the land and does not provide for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.



Cert. No.: 2203 Page No.: 7

0 Liverpool

I NSW 2170

9. CONTRIBUTION PLANS

The name of each contribution plan applying to the land is/are outlined below: - Liverpool Contributions Plan 2001

10. Matters arising to the Contaminated Land Management Amendment Act 2009 NSW)

The land to which this certificate relates is the subject of a site audit statement within the meaning of that Act – if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

11. Bushfire Prone Land

Part of the land subject to this certificate is bushfire prone land as defined in the Environmental Planning and Assessment Act 1979.

12. Property Vegetation Plans

The provisions applying to the land that relate to property vegetation plans is/are listed below:-

The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. Orders under Trees (Disputes Between Neighbours Act 2006)

There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. Directions under Part 3A

There has been no notification of a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or stage of a project on the land under Part 4 of the Act does not have effect.

15. Site Compatibility Certificates and Conditions for Seniors Housing There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

- 16. Site Compatibility Certificates for Infrastructure There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.
- 17. Site Compatibility Certificates and Condition for Affordable Rental Housing Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

PART B ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471



Cert. No.: 2203 Page No.: 8

1. Threatened Species Conservation Act

It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

If the land has native vegetation of any sort (ie trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

Enquiries should be directed to Council's Department of Environment and Community.

2. Tree Preservation Provision

The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. Controlled Access Road

The land has a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. Notices

No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. Other Information in Relation to Water

The property is identified as flood prone and is with the low risk flood category. Low Flood Risk Category means all other within the floodplain (within the extent of probable maximum flood) bit not identified within either the High Flood Risk or the Medium Flood Risk Category. (See Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.

- 6. Sydney Water Corporation Nil
- 7. Foreshore Building Line Nil
- 8. Contaminated Land

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471

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Cert. No.: 2203 Page No.: 9

Nil

9. Airport Noise Affectation Badgery's Creek Airport Nil

> Hoxton Park Airport Nil

- 10. Airport Acquisition Nil
- 11. Environmentally Significant Land Nil
- 12. Archaeological Management Plan Nil
- 13. Unhealthy Building Land Proclamation Nil

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For further information, please contact CALL CENTRE – 9821 9222

Mr Milan Marecic **Director – City Strategy** Liverpool City Council



Ref.: EMAIL Ppty: 164540

Applicant: PARSONS BRINCKERHOFF LEVEL 27, 680 GEORGE STREET SYDNEY NSW 2001
 Cert. No.:
 2204

 Page No.:
 1

 Receipt No.:
 1821329

 Receipt Amt.:
 100.00

 Date:
 11-Nov-2010

Owner: (as recorded by Council): LIVERPOOL CITY COUNCIL LOCKED BAG 7064 LIVERPOOL BC NSW 1871

Property Desc: LOT 101 MOOREBANK (ARMY) AVENUE, MOOREBANK NSW 2170 LOT 101 DP 1049508

PART A PRESCRIBED INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation, 1998.



Cert. No.: 2204 Page No.: 2

1. Names of Relevant LEP's, DCP's, REPs, and SEPPs

(1) (a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below: -

Name of Instrument: Liverpool Local Environmental Plan 2008 Name of Zone: IN1 General Industrial

(1)(b) Draft Local Environmental Plan(s)

The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below: -

 Name of Draft Instrument:
 Draft Liverpool Local Environmental Plan 2008

 Amendment No:
 5 – Anomalies

 Name of Zone:
 Subject to all zones

(1) (c) Development Control Plan(s) under Section 72
 The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below: -

Liverpool Development Control Plan 2008 (as amended).

Development Control Plan(s) under Section 51A The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows: -

Nil

(2)(a) Regional Environmental Plan(s)

The names of each Regional Environmental Plan applying to the land is/are listed below:

Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

(2)(b) Draft Regional Environmental Plan(s)

The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

Nil



PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Cert. No.: 2204 Page No.: 3

(3)(a) State Environmental Planning Policy(s) The names of each State Environmental Planning Policy applying to the land are listed below: -State Environmental Planning Policy No. 6 – Number of Storeys in a Building State Environmental Planning Policy No. 19 - Bushland in Urban Areas State Environmental Planning Policy No. 21 - Caravan Parks State Environmental Planning Policy No. 30 – Intensive Agriculture State Environmental Planning Policy No. 32 - Urban Consolidation (Redevelopment of Urban Land) State Environmental Planning Policy No. 33 – Hazardous and Offensive Development State Environmental Planning Policy No. 44 - Koala Habitat State Environmental Planning Policy No. 50 – Canal Estate Development State Environmental Planning Policy No. 55 - Remediation of Land State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008 State Environmental Planning Policy No 62 – Sustainable Aquaculture State Environmental Planning Policy No. 64 - Advertising and Signage State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development State Environmental Planning Policy – (Building Sustainability Index: BASIX) 2004 State Environmental Planning Policy - (Major Development) 2005 State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009 State Environmental Planning Policy - (Infrastructure) 2007 State Environmental Planning Policy - (Mine, Petrol Prod and Extractive Ind) 2007 State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007 State Environmental Planning Policy - (Affordable Rental Housing) 2009

3(b) Draft State Environmental Planning Policy(s) The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below: -

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

ZONING AND LAND USE UNDER RELEVANT LOCAL ENIVIRONMENTAL PLANS
 (a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in: -

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -



Cert. No.: 2204 Page No.: 4

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House

The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below: -

The land's dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land

(f) Critical Habitat

The provisions applying to the land that relate to critical habitat is/are outlined below: -

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.



Cert. No.: 2204 Page No.: 5

(g) Conservation Area The provisions applying to the land that relate to a conservation areas is/are outlined below: -

Land is not located in a Conservation Area.

(h) Environmental Heritage The provisions applying to the land that relate to an item of environmental heritage is/are outlined below: -

An item of Environmental Heritage is not situated on the land.

3. COMPLYING DEVELOPMENT

Complying development under the Housing Internal Alterations Code may be carried out on the land.

Complying Development under the General Commercial and Industrial Code may be carried out on this land.

Complying development under the General Housing Code may not be carried out on the land.

This land is excluded being land that is identified in as being bush fire prone land.

4. Coastal Protection Act 1979

There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. Mine Subsidence

The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. Road Widening and Road Realignment The provisions applying to the land that relate to road widening or road realignment is/are outlined below: -

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

- 7. Council and Other Public Authority Policies on Hazard Risk Restrictions The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below: -
 - (a) Council Policy Other Risks

The land is not affected by a policy adopted by Council that restricts the development

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471

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Cert. No.: 2204 Page No.: 6

of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence 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 sulphate soils. 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, subsidence, acid sulphate soils 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.

(b) Public Authority Policies

The land is not affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

- 1. Development on the subject land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).
- 2. Development on the subject land for any purpose is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).
- 3. The expressions "dwelling houses, "dual occupancies," "multi dwelling housing" and "residential flat buildings" as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of "group homes" or "seniors housing".
- 8. Land Reserved for Acquisition The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below: -

Nil

Liverpool Local Environmental Plan 2008 applies to the land and does not provide for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.



Cert. No.: 2204 Page No.: 7

9. CONTRIBUTION PLANS

The name of each contribution plan applying to the land is/are outlined below: - Liverpool Contributions Plan 2001

10. Matters arising to the Contaminated Land Management Amendment Act 2009 NSW)

The land to which this certificate relates is the subject of a site audit statement within the meaning of that Act – if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

11. Bushfire Prone Land

12. Property Vegetation Plans

The provisions applying to the land that relate to property vegetation plans is/are listed below:-

The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. Orders under Trees (Disputes Between Neighbours Act 2006)

There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. Directions under Part 3A

There has been no notification of a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or stage of a project on the land under Part 4 of the Act does not have effect.

15. Site Compatibility Certificates and Conditions for Seniors Housing There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

16. Site Compatibility Certificates for Infrastructure There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.

17. Site Compatibility Certificates and Condition for Affordable Rental Housing Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

PART B ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471



land

PLANNING CERTIFICATE UNDER SECTION 149 ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Cert. No.: 2204 Page No.: 8

1. Threatened Species Conservation Act It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their

If the land has native vegetation of any sort (ie trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

Enquiries should be directed to Council's Department of Environment and Community.

2. Tree Preservation Provision The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. Controlled Access Road The land has a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. Notices

No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. Other Information in Relation to Water

The property is identified as flood prone and is with the low risk flood category. Low Flood Risk Category means all other within the floodplain (within the extent of probable maximum flood) bit not identified within either the High Flood Risk or the Medium Flood Risk Category. (See Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.

- 6. Sydney Water Corporation Nil
- 7. Foreshore Building Line Nil
- 8. Contaminated Land Nil



Cert. No.: 2204 Page No.: 9

9. Airport Noise Affectation Badgery's Creek Airport Nil

> Hoxton Park Airport Nil

- 10. Airport Acquisition Nil
- 11. Environmentally Significant Land Nil
- 12. Archaeological Management Plan Nil
- 13. Unhealthy Building Land Proclamation Nil

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For further information, please contact CALL CENTRE – 9821 9222

Mr Milan Marecic Director – City Strategy **Liverpool City Council**



Ref.: EMAIL Ppty: 12889

Applicant: PARSONS BRINCKERHOFF LEVEL 27, 680 GEORGE STREET SYDNEY NSW 2001
 Cert. No.:
 2201

 Page No.:
 1

 Receipt No.:
 1821329

 Receipt Amt.:
 100.00

 Date:
 11-Nov-2010

Owner: (as recorded by Council): LIVERPOOL CITY COUNCIL LOCKED BAG 7064 LIVERPOOL BC NSW 1871

Property Desc: MILL PARK, 474 HUME HIGHWAY, CASULA NSW 2170 LOT 10 DP 881265

PART A PRESCRIBED INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation, 1998.



Cert. No.: 2201 Page No.: 2

1. Names of Relevant LEP's, DCP's, REPs, and SEPPs

(1) (a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below: -

Name of Instrument: Liverpool Local Environmental Plan 2008 Name of Zone: RE1 Public RecreationSP2 Infrastructure - Classified Road

(1)(b) Draft Local Environmental Plan(s)

The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below: -

 Name of Draft Instrument:
 Draft Liverpool Local Environmental Plan 2008

 Amendment No:
 5 – Anomalies

 Name of Zone:
 Subject to all zones

(1) (c) Development Control Plan(s) under Section 72
 The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below: -

Liverpool Development Control Plan 2008 (as amended).

Development Control Plan(s) under Section 51A The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows: -

Nil

(2)(a) Regional Environmental Plan(s)

The names of each Regional Environmental Plan applying to the land is/are listed below:

Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

(2)(b) Draft Regional Environmental Plan(s)

The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

Nil



PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

(3)(a) State Environmental Planning Policy(s) The names of each State Environmental Planning Policy applying to the land are listed below: -State Environmental Planning Policy No. 6 – Number of Storeys in a Building State Environmental Planning Policy No. 19 - Bushland in Urban Areas State Environmental Planning Policy No. 21 - Caravan Parks State Environmental Planning Policy No. 30 – Intensive Agriculture State Environmental Planning Policy No. 32 - Urban Consolidation (Redevelopment of Urban Land) State Environmental Planning Policy No. 33 – Hazardous and Offensive Development State Environmental Planning Policy No. 44 - Koala Habitat State Environmental Planning Policy No. 50 – Canal Estate Development State Environmental Planning Policy No. 55 - Remediation of Land State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008 State Environmental Planning Policy No 62 – Sustainable Aquaculture State Environmental Planning Policy No. 64 – Advertising and Signage State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development State Environmental Planning Policy – (Building Sustainability Index: BASIX) 2004 State Environmental Planning Policy - (Major Development) 2005 State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009 State Environmental Planning Policy - (Infrastructure) 2007 State Environmental Planning Policy - (Mine, Petrol Prod and Extractive Ind) 2007 State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007 State Environmental Planning Policy - (Affordable Rental Housing) 2009

3(b) Draft State Environmental Planning Policy(s) The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below: -

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

ZONING AND LAND USE UNDER RELEVANT LOCAL ENIVIRONMENTAL PLANS
 (a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in: -

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -



Cert. No.: 2201 Page No.: 4

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House

The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below: -

The land's dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land

(f) Critical Habitat

The provisions applying to the land that relate to critical habitat is/are outlined below: -

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.



Cert. No.: 2201 Page No.: 5

(g) Conservation Area The provisions applying to the land that relate to a conservation areas is/are outlined below: -

Land is not located in a Conservation Area.

(h) Environmental Heritage The provisions applying to the land that relate to an item of environmental heritage is/are outlined below: -

An item of the Environmental Heritage is situated on the land. Refer to Schedule 5 – Environmental Heritage under Liverpool Local Environmental Plan 2008.

3. COMPLYING DEVELOPMENT

Complying development under the General Housing Code may not be carried out on the land.

Complying development under the Housing Internal Alterations Code may not be carried out on the land.

Complying Development under the General Commercial and Industrial Code may not be carried out on this land.

This land is excluded being land that is identified in an environmental planning instrument as being within an area that is environmentally sensitive.

This land is excluded being land that comprises, or on which there is a local heritage item or draft local heritage item identified in an Environmental Planning Instrument.

This land is excluded being land that is identified in as being bush fire prone land.

This land is excluded being land identified in an environmental planning instrument as being a flood control lot.

4. Coastal Protection Act 1979

There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. Mine Subsidence

The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. Road Widening and Road Realignment The provisions applying to the land that relate to road widening or road realignment is/are outlined below: -

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471



Cert. No.: 2201 Page No.: 6

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

- 7. Council and Other Public Authority Policies on Hazard Risk Restrictions The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below: -
 - (a) Council Policy Other Risks

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, bushfire, tidal inundation, subsidence 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 sulphate soils. 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, subsidence, acid sulphate soils 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.

(b) Public Authority Policies

The land is not affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

- 1. The property is affected by flood inundation and therefore the controls applying to residential forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.
- 2. The property is affected by flood inundation and therefore the controls applying to all forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.
- 3. The expressions "dwelling houses, "dual occupancies," "multi dwelling housing" and "residential flat buildings" as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of "group homes" or "seniors housing".

8. Land Reserved for Acquisition



Cert. No.: 2201 Page No.: 7

The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below: -

Nil

Liverpool Local Environmental Plan 2008 applies to the land and provides for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.

9. CONTRIBUTION PLANS

The name of each contribution plan applying to the land is/are outlined below: - Liverpool Contributions Plan 2001

- 10. Matters arising to the Contaminated Land Management Amendment Act 2009 NSW) Nil
- 11. Bushfire Prone Land

Part of the land subject to this certificate is bushfire prone land as defined in the Environmental Planning and Assessment Act 1979.

12. Property Vegetation Plans

The provisions applying to the land that relate to property vegetation plans is/are listed below:-

The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. Orders under Trees (Disputes Between Neighbours Act 2006) There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. Directions under Part 3A

There has been no notification of a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or stage of a project on the land under Part 4 of the Act does not have effect.

- 15. Site Compatibility Certificates and Conditions for Seniors Housing There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.
- 16. Site Compatibility Certificates for Infrastructure



Cert. No.: 2201 Page No.: 8

There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.

17. Site Compatibility Certificates and Condition for Affordable Rental Housing Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

PART B

ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

1. Threatened Species Conservation Act

It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

If the land has native vegetation of any sort (ie trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

Enquiries should be directed to Council's Department of Environment and Community.

2. Tree Preservation Provision

The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. Controlled Access Road

The land does not have a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. Notices

No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. Other Information in Relation to Water

The property is identified as flood prone and is with the high risk flood category. High Flood Risk Category means land below the 1% Annual Exceedence Probability flood that is either subject to high hydraulic hazard or where there are significant evacuation difficulties (see Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.



Cert. No.: 2201 Page No.: 9

- 6. Sydney Water Corporation Nil
- 7. Foreshore Building Line Nil
- 8. Contaminated Land Nil
- 9. Airport Noise Affectation Badgery's Creek Airport Nil

Hoxton Park Airport Nil

10. Airport Acquisition Nil

11. Environmentally Significant Land Environmentally Significant Land The subject property is identified as containing environm

The subject property is identified as containing environmentally significant land under Division 2 General provisions of the Liverpool Local Environmental Plan 2008.

- (1) The objectives of this clause are as follows:
 - (a) to maintain bushland, wetlands and wildlife corridors of high conservation value,
 - (b) to identify areas of significance for revegetation to connect to or buffer
 - 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.

Further information in this regard is available from Council's City Strategy Department or the Liverpool Local Environmental Plan 2008.

12. Archaeological Management Plan Nil

13. Unhealthy Building Land Proclamation



For further information, please contact

CALL CENTRE - 9821 9222

Cert. No.: 2201 Page No.: 10

Nil

Ilil

Mr Milan Marecic Director – City Strategy Liverpool City Council



Ref.: EMAIL Ppty: 170793

Applicant: PARSONS BRINCKERHOFF LEVEL 27, 680 GEORGE STREET SYDNEY NSW 2001
 Cert. No.:
 2202

 Page No.:
 1

 Receipt No.:
 1821329

 Receipt Amt.:
 100.00

 Date:
 11-Nov-2010

Owner: (as recorded by Council): COMMONWEALTH OF AUSTRALIA LOCKED BAG 5033 PARRAMATTA NSW 2150

Property Desc: LOT 3001 MOOREBANK (ARMY) AVENUE, MOOREBANK NSW 2170 LOT 3001 DP 1125930

PART A PRESCRIBED INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation, 1998.



Cert. No.: 2202 Page No.: 2

1. Names of Relevant LEP's, DCP's, REPs, and SEPPs

(1) (a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below: -

Name of Instrument: Liverpool Local Environmental Plan 2008 Name of Zone: IN1 General IndustrialSP2 Infrastructure - Defence

(1)(b) Draft Local Environmental Plan(s)

The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below: -

 Name of Draft Instrument:
 Draft Liverpool Local Environmental Plan 2008

 Amendment No:
 5 – Anomalies

 Name of Zone:
 Subject to all zones

(1) (c) Development Control Plan(s) under Section 72
 The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below: -

Liverpool Development Control Plan 2008 (as amended).

Development Control Plan(s) under Section 51A The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows: -

Nil

(2)(a) Regional Environmental Plan(s)

The names of each Regional Environmental Plan applying to the land is/are listed below:

Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

(2)(b) Draft Regional Environmental Plan(s)

The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

Nil



PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Cert. No.: 2202 Page No.: 3

(3)(a) State Environmental Planning Policy(s) The names of each State Environmental Planning Policy applying to the land are listed below: -State Environmental Planning Policy No. 6 – Number of Storeys in a Building State Environmental Planning Policy No. 19 - Bushland in Urban Areas State Environmental Planning Policy No. 21 - Caravan Parks State Environmental Planning Policy No. 30 – Intensive Agriculture State Environmental Planning Policy No. 32 - Urban Consolidation (Redevelopment of Urban Land) State Environmental Planning Policy No. 33 – Hazardous and Offensive Development State Environmental Planning Policy No. 44 - Koala Habitat State Environmental Planning Policy No. 50 – Canal Estate Development State Environmental Planning Policy No. 55 - Remediation of Land State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008 State Environmental Planning Policy No 62 – Sustainable Aquaculture State Environmental Planning Policy No. 64 – Advertising and Signage State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development State Environmental Planning Policy – (Building Sustainability Index: BASIX) 2004 State Environmental Planning Policy - (Major Development) 2005 State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009 State Environmental Planning Policy - (Infrastructure) 2007 State Environmental Planning Policy - (Mine, Petrol Prod and Extractive Ind) 2007 State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007 State Environmental Planning Policy - (Affordable Rental Housing) 2009

3(b) Draft State Environmental Planning Policy(s) The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below: -

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

ZONING AND LAND USE UNDER RELEVANT LOCAL ENIVIRONMENTAL PLANS
 (a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in: -

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -



Cert. No.: 2202 Page No.: 4

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House

The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below: -

The land's dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land

(f) Critical Habitat

The provisions applying to the land that relate to critical habitat is/are outlined below: -

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.



Cert. No.: 2202 Page No.: 5

(g) Conservation Area The provisions applying to the land that relate to a conservation areas is/are outlined below: -

Land is not located in a Conservation Area.

(h) Environmental Heritage The provisions applying to the land that relate to an item of environmental heritage is/are outlined below: -

An item of the Environmental Heritage is situated on the land. Refer to Schedule 5 – Environmental Heritage under Liverpool Local Environmental Plan 2008.

3. COMPLYING DEVELOPMENT

Complying development under the General Housing Code may not be carried out on the land.

Complying development under the Housing Internal Alterations Code may not be carried out on the land.

Complying Development under the General Commercial and Industrial Code may not be carried out on this land.

This land is excluded being land that is identified in an environmental planning instrument as being within an area that is environmentally sensitive.

This land is excluded being land that comprises, or on which there is a local heritage item or draft local heritage item identified in an Environmental Planning Instrument.

This land is excluded being land that is identified in as being bush fire prone land.

This land is excluded being land identified in an environmental planning instrument as being a flood control lot.

This land is excluded being land that is identified in a foreshore area.

4. Coastal Protection Act 1979

There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. Mine Subsidence

The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. Road Widening and Road Realignment

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471



Cert. No.: 2202 Page No.: 6

The provisions applying to the land that relate to road widening or road realignment is/are outlined below: -

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

7. Council and Other Public Authority Policies on Hazard Risk Restrictions The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below: -

(a) Council Policy – Other Risks

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, bushfire, tidal inundation, subsidence 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 sulphate soils. 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, subsidence, acid sulphate soils 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.

(b) Public Authority Policies

The land is not affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

- 1. The property is affected by flood inundation and therefore the controls applying to residential forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.
- 2. The property is affected by flood inundation and therefore the controls applying to all forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.
- 3. The expressions "dwelling houses, "dual occupancies," "multi dwelling housing" and "residential flat buildings" as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of "group homes" or "seniors housing".

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471



Cert. No.: 2202 Page No.: 7

8. Land Reserved for Acquisition The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below: -

Nil

Liverpool Local Environmental Plan 2008 applies to the land and does not provide for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.

9. CONTRIBUTION PLANS

The name of each contribution plan applying to the land is/are outlined below: -Liverpool Contributions Plan 2001

10. Matters arising to the Contaminated Land Management Amendment Act 2009 NSW) Nil

11. Bushfire Prone Land

Part of the land subject to this certificate is bushfire prone land as defined in the Environmental Planning and Assessment Act 1979.

12. Property Vegetation Plans

The provisions applying to the land that relate to property vegetation plans is/are listed below:-

The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. Orders under Trees (Disputes Between Neighbours Act 2006) There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. Directions under Part 3A

There has been no notification of a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or stage of a project on the land under Part 4 of the Act does not have effect.

15. Site Compatibility Certificates and Conditions for Seniors Housing There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

16. Site Compatibility Certificates for Infrastructure

Administration Centre 1 Hoxton Park Road, Liverpool NSW 2170, DX 5030 Liverpool Customer Service Centre Liverpool City Library, 170 George Street, Liverpool NSW 2170 All correspondence to The General Manager, Locked Bag 7064 Liverpool BC NSW 1871 Call Centre 1300 36 2170 Fax 9821 9333 Email Icc@liverpool.nsw.gov.au Web www.liverpool.nsw.gov.au TTY 9821 8800 ABN 84 181 182 471



Cert. No.: 2202 Page No.: 8

There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.

17. Site Compatibility Certificates and Condition for Affordable Rental Housing Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

PART B

ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

1. Threatened Species Conservation Act

It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

If the land has native vegetation of any sort (ie trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

Enquiries should be directed to Council's Department of Environment and Community.

2. Tree Preservation Provision

The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. Controlled Access Road

The land does not have a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. Notices

No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. Other Information in Relation to Water

The property is identified as flood prone and is with the high risk flood category. High Flood Risk Category means land below the 1% Annual Exceedence Probability flood that is either subject to high hydraulic hazard or where there are significant evacuation difficulties (see Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.



Cert. No.: 2202 Page No.: 9

- 6. Sydney Water Corporation Nil
- 7. Foreshore Building Line Nil
- 8. Contaminated Land 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 relevant information is available for inspection at the office of the Council.
- 9. Airport Noise Affectation Badgery's Creek Airport Nil

Hoxton Park Airport Nil

10. Airport Acquisition Nil

11. Environmentally Significant Land Environmentally Significant Land The subject property is identified as containing environmentally significant land under Division 2 General provisions of the Liverpool Local Environmental Plan 2008.

- (1) The objectives of this clause are as follows:
 - (a) to maintain bushland, wetlands and wildlife corridors of high conservation value,
 - (b) to identify areas of significance for revegetation to connect to or buffer 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.

Further information in this regard is available from Council's City Strategy Department or the Liverpool Local Environmental Plan 2008.

12. Archaeological Management Plan Nil



Cert. No.: 2202 Page No.: 10

13. Unhealthy Building Land Proclamation Nil

For further information, please contact CALL CENTRE – 9821 9222

llit

Mr Milan Marecic Director – City Strategy Liverpool City Council

ANNEXURE TO SECTION 149(5) CERTIFICATE



Issue Date: 11/11/2010

Issue No: 2025771 File No: 2010/0038

Premises at Lot 3001 DP 1125930 Moorebank Avenue Moorebank

Further to the advice contained in the Section 149(2) Certificate and on the basis of the latest information available to the Council:

- 1. the maximum calculated level of the probable maximum flood (PMF) in the vicinity of your property in metres AHD is 16.1.
- 2. the maximum calculated level of the 1% annual exceedance probability flood (previously referred to as the 1 in 100 year) in the vicinity of your property in metres AHD is 15.6.
- 3. the maximum calculated level of the 2% annual exceedance probability flood (previously referred to as the 1 in 50 year) in the vicinity of your property in metres AHD is 15.5.
- 4. the maximum calculated level of the 5% annual exceedance probability flood (previously referred to as the 1 in 20 year) in the vicinity of your property in metres AHD is 15.5.

The Council does not possess accurate information on the natural surface levels of individual allotments or on constructed building levels, and these should be established by private survey to ascertain their relationship to the above flood levels.

Flood levels are obtained from Anzac Creek Flood Study - Adopted by Council 12 June 2007.

Name of Assessor: W. Siripala Signature:

Note:

The subject property is significantly large. According to Council's flood data the property is affected by flooding from several creeks traversing through the property and flood levels vary across the property. The applicant needs to view available flood data with Council to determine flood affectation (extent, location and levels) on the property.

ANNEXURE TO SECTION 149(5) CERTIFICATE



Issue Date: 11/11/2010

 Issue No:
 2025769

 File No:
 2010/0038

 Premises at
 Lot 10
 DP
 881265

Hume Highway Casula

Further to the advice contained in the Section 149(2) Certificate and on the basis of the latest information available to the Council:

- 1. the maximum calculated level of the probable maximum flood (PMF) in the vicinity of your property in metres AHD is **12.9**.
- 2. the maximum calculated level of the 1% annual exceedance probability flood (previously referred to as the 1 in 100 year) in the vicinity of your property in metres AHD is **10.8**.
- 3. the maximum calculated level of the 2% annual exceedance probability flood (previously referred to as the 1 in 50 year) in the vicinity of your property in metres AHD is 10.3.
- 4. the maximum calculated level of the 5% annual exceedance probability flood (previously referred to as the 1 in 20 year) in the vicinity of your property in metres AHD is 9.6.

The Council does not possess accurate information on the natural surface levels of individual allotments or on constructed building levels, and these should be established by private survey to ascertain their relationship to the above flood levels.

Flood levels are obtained from Georges River Floodplain Risk Mangement Study & Plan - July 2004

Name of Assessor: W. Siripala

Signature:

Appendix F NSW EPA Notice records





You are here: <u>Home</u> > <u>Contaminated land</u> > <u>Record of EPA notices</u>

A A

Site and notice details

Your search for:	Suburb: Moorebank		8 notices on 1 site w	vere matched.	
Return to list of search re	<u>sults</u>			Search Again Refine Search	
Area No: 3054					
The information below wa	as correct at the time the no	tices were iss	ued.		
Site: ABB Power Transmi Address: Bapaume Road LGA: Liverpool City Coun	, Moorebank, 2170				
Occupier: ABB Power Tra	ansmissions Pty Ltd				
Lot 2 DP 32998	Lot 3 DP 32998				
	(1	Map) where a	vailable, maps show t	the part of the site affected by the notice *notice matched search criteria	
Notice recipient	Notice type & number		Status	Date	
ABB Power Transmissions Pty Ltd	Section 35 EHC Act Order *	<u>397</u>	Current	Issued 16 Mar 1995	
ABB Power Transmissions Pty Ltd	Section 35 EHC Act Order *	<u>393</u>	Current	Issued 21 Dec 1994	
ABB Power Transmissions Pty Ltd	Section 35 EHC Act Order *	<u>391</u>	Current	Issued 02 Nov 1994	
ABB Power Transmissions Pty Ltd	Section 35 EHC Act Order *	<u>221</u>	Current	Issued 21 Jan 1991	
Tyree Electrical Co	Section 35 EHC Act Order *	<u>173</u>	Current	Issued 12 Jun 1990	
ABB Power Transmissions Pty Ltd	Section 35 EHC Act Order *	<u>345</u>	Former	Issued 03 May 1993 Revoked 02 Nov 1994	
ABB Power Transmissions Pty Ltd	Section 35 EHC Act Order *	<u>299</u>	Former	Issued 07 Apr 1992 Revoked 03 May 1993	
APP Dowor Transmissions	Section 35 EHC Act Order *	239	Former	Issued 28 Sep 1990	

12 October 2010

NSW Government | jobs.nsw

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ABB Power Transmission Pty Limited P.O.Box 315 LIVERPOOL NSW 2170

Our Reference: CH787/5 Notice # 393 / 3054

Your Reference:

Contact: T.Recsei

CERTIFIED MAIL

FOR THE ATTENTION OF THE SECRETARY

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985 NOTICE UNDER SECTION 35

WHEREAS:-

A. ABB Power Transmissions Pty Limited, "the Occupier" occupies premises located at

Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.

- B. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds ("PCBs").
- C. The Occupier has submitted plans for remedial action for the premises on 24 August

1994.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985 (the "Act"), the EPA until further notice directs that:

1. This Notice amends and supersedes the Notice number 391 dated 2 November 1994 in the following respect:

The final two reports relating to the bioremediation trial described in the Occupier's "Bioremediation Trial Status Report" of 23 August 1994 must be delivered to this office by the revised date of 31 March 1995.

2. Notice number 391 remains in full force and effect in all other respects.

NEIL SHEPHERD Director-General

(signed - 20/12/1994)

Per ERROL SAMUEL DIRECTOR HAZARDOUS SUBSTANCES by Authorisation

cc Regional Manager Southern Sydney cc Town Clerk Liverpool cc Register of Section 35 Notices abb54 ABB Power Transmission Pty Ltd PO Box 315 LIVERPOOL NSW 2170

Our Reference: CH787/4

Your Reference:

CERTIFIED MAIL

FOR THE ATTENTION OF THE SECRETARY

ENVIRONMENTALLY HARDOUS CHEMICALS ACT, 1985 NOTICE UNDER SECTION 35

WHEREAS:-

- A. ABB Power Transmissions Pty Limited, "the Occupier" occupies premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.
- B. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds ("PCBs").
- C. The Occupier has submitted plans for remedial action for the premises on 24 August 1994.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act; 1985 (the "Act"), the EPA until further notice directs that:

- 1. This Notice revokes the directions given in the Notice no. 345.
- 2. (1) Should the Occupier wish to undertake any works on the premises which could

constitute prescribed remedial action, the Occupier shall do so only in

accordance with an approval in writing given by the EPA.

- (2) The Occupier shall give the EPA prior notice before commencing any works approved pursuant to Sub-Clause (1).
- (3) For the purposes of this Clause, prescribed remedial action is as defined in Section 33(2) of the Act, namely a reference to -
 - (a) ascertaining the nature and extent of the contamination of the premises;

- (b) preparing a remedial action plan for the premises and, if required, a long-term management plan;
- (c) removing the cause of the contamination from the premises;
- (d) reducing the contamination of the premises;
- (e) eliminating or reducing any danger arising from the contamination of the premises; or
- (f) restoring the premises.
- The surface sealing program work outlined in the report "Surface Sealing Programme - Moorebank Status Report no. 2" of 23 August 1994 attached to the Occupier's letter of 24 August 1994 must be performed and completed by 28 February 1995.
- 4. The drain in the drainage easement may be modified according to subparagraphs (i) or (ii) of paragraph 6 of the Occupier's report "Surface Sealing Programme Moorebank Status Report no. 2" of 23 August 1994 within six months of agreement with the Defence Authorities being reached.
- 5. The final two reports relating to the bioremediation trial described in the Occupier's Bioremediation Trial Status Report" of 23 August 1994 must be delivered to this office by 31 December 1994.

NEIL SHEPHERD Director-General

Per (signed) 2/11/94 ERROL SAMUEL DIRECTOR HAZARDOUS SUBSTANCES by Authorisation

cc Regional Manager Southern Sydney

- cc Town Clerk Liverpool
- cc Register of Section 35 Notices

The Secretary ABB Power Transmission Pty Limited P.O. Box 315 LIVERPOOL NSW 2170

CH787/5

Notice # 345

Contact: T. Recsei

CERTIFIED MAIL

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985 NOTICE UNDER SECTION 35

WHEREAS:-

- A. You, ABB Power Transmissions Pry Limited are the occupier of premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.
- B. The premises have been or are being used for or in connection with the carrying on

of a prescribed activity, namely an act of manufacturing, processing, keeping, distributing,

conveying, using, selling or disposing of a chemical or chemical waste or any act related to

such act.

- C. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds (PCBs) as a consequence of the carrying on of the prescribed activity.
- D. The premises are deemed to be contaminated because they are environmentally degraded as a consequence of being affected by the chemicals/chemical wastes described in clause 3.
- E. Your then consultants Dames and Moore submitted a report dated March 1990 indicating substantial PCB contamination. Your current consultants, ICF Pty Ltd have submitted a bioremediation work plan dated 31 March 1993.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the EPA until further notice directs that:

- 1. This Notice revokes the directions given in the Notice served on you dated 28 September 1990 and Annexure 1 dated 7 April 1992.
- 2. (1). Should you wish to undertake any works on the premises which could

constitute prescribed remedial action, you shall do so only in accordance with an approval in writing given by the EPA.

(2). You shall give the EPA prior notice before commencing any works approved pursuant to Sub-Clause (1).

For the purposes of this Clause, prescribed remedial action is as defined in Section 33(2)

of the Act, namely a reference to -

- (a) ascertaining the nature and extent of the contamination of the premises;
- (b) preparing a remedial action plan for the premises and, if required, a long-term management plan;
- (c) removing the cause of the contamination from the premises;
- (d) reducing the contamination of the premises;
- (e) eliminating or reducing any danger arising from the contamination of the premises; or
- (f) restoring the premises.
- (4). The above definition includes (but is not limited to) works which have the

effect or intention of:

- (a) dispersing or covering the contamination;
- (b) removing or disposing of any soil, sand, rock, water or any solid or liquid material of any kind from the premises;
- (c) vacating, or ceasing to carry on any activity upon, the premises or any part thereof;
- (d) disturbance of the premises below a depth of 0.5 metres.
- 3. If you become aware that the premises to which this Notice relates are to be sold, that occupancy of the premises are to be transferred or responsibility for the premises otherwise relinquished:
 - (a) within one month of becoming aware, you shall inform the EPA in writing, and
 - (b) where you are advised of the name of the prospective owner or occupier you, within 48 hours, in writing shall:
 (i) notify the EPA, and
 (ii) notify the intending purchaser or occupier of the conditions of this Notice.
- 4. The bioremediation trial plan of 31 March 1993 submitted by ICF Pty Ltd must be conducted in accordance with the plans and procedures specified therein together

with modifications agreed with the EPA.

5. The trial must commence within 30 days from the date of this Notice.

The role of the EPA is regulatory. Any advice required by you must be obtained as a result of your own independent enquiries.

NEIL SHEPHERD Director-General

Per .(signed) 3/5/93 ERROL SAMUEL

Director Hazardous Substances by Authorisation

cc Regional Manager Southern Sydney cc Town Clerk Liverpool cc Register of Section 35 Notices Mr A.R. Flett General Manager ABB Power Transmission Pty Limited P.O.Box 315 LIVERPOOL NSW 2170

tr/tr 500149A2

CERTIFIED MAIL

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985 NOTICE UNDER SECTION 35 ANNEXURE 1 - APPROVAL TO CONDUCT WORKS

WHEREAS:-

- 1. You, ABB Power Transmissions Pty Limited are the occupier of premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.
- 2. These premises are contaminated by chemical wastes including polychlorinated biphenyls (PCBs).
- 3. The Environment Protection Authority issued a notice dated 28 September 1990 under Section 35 of the Environmentally Hazardous Act, 1985 directing you to perform sampling, submit a report and to obtain written approval before any land on the premises is disturbed.
- 4. Your consultants Dames and Moore submitted a report indicating substantial PCB contamination, a bioremediation work plan dated 16 May 1991 and further details and modifications of this plan dated 7 February 1992 and 24 March 1992.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Environment Protection Authority directs that you conduct the specified bioremediation trial in accordance with the conditions of the Environment Protection Authority's notice of 28 September 1990 and in addition to the conditions specified in reports specified in the paragraph numbered 4 of this notice. Particular attention must be paid to avoid dissemination of PCBs and fungal spores into the environment.

This notice does not derogate from the provisions of any relevant Environmental Planning

Instrument which may control the use of land on which the premises are located or from

any other administered by the Environment Protection Authority.

This notice shall be referred to as Annexure 1 to the Environment Protection Authority's notice of 28 September 1990.

NEIL SHEPHERD

Director-General

7 APR 1992 Per....(signed) ERROL SAMUEL Director Hazardous Substances by Authorisation

cc Regional Manager Southern Sydney cc Town Clerk Liverpool cc Register of Section 35 Notices abb6

CERTIFIED MAIL

ABB Transformers Pty Limited Lots 2 and 3 DP32998 Bapaume Road MOOREBANK NSW 2170

Our reference: 500149A1 Your reference: [5WSS.L-JR1]

28/9/90

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985 NOTICE UNDER SECTION 35

Whereas: -

- 1. Tyree Electric Company P/L ("the company") is the occupier of premises:
 - located at lots 2 and 3 DP32998 Bapaume Road, Moorebank, NSW, and known as Tyree Electric Company P/L;
 - contaminated by the prescribed activities of the manufacture, processing use and disposal of chemicals or chemical wastes, including polychlorinated biphenyls;
 - deemed to be contaminated by reason of their being environmentally degraded.
 - The State Pollution Control Commission issued a Section 35 notice under the Environmentally Hazardous Chemicals Act on 12 June 1990.

Take notice that:-

In accordance with the powers vested in the State Pollution Control Commission by the provision of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Commission from the date of this Notice hereby directs that:

- Samples shall be taken from the premises to determine the extent, both in area and depth, of contamination. Such samples shall be taken to a plan and in a manner approved by the Commission, and shall be analysed for the presence of polychlorinated biphenyls (PCBs) by a NATA-registered analytical laboratory. Such samples shall be taken and analysed within 60 days of the date of this Notice.
- 2. The Commission shall be notified in writing of the results of the analyses required in Clause 1 of this Notice within seven days of the test results being known.
- 3. A report shall be prepared outlining strategies for the rehabilitation of the premises. Such report shall be submitted to the Commission for consideration.
- 4. All other work carried out on these premises with the intention, or having the effect, of
 - a) reducing the contamination of the premises; or
 - b) restoring or rehabilitating the premises; or

c) removing, or disposing of, any soil, sand, rock, water or other solid or liquid material of any kind from these premises;

which would result in the disturbance of any land on the premises, shall be carried out only after prior notice to the Commission and in accordance with an approval, in writing, given by the Commission.

- 5. Where the premises to which this notice relates is to he sold, or responsibility for the premises otherwise relinquished, and the occupier is also the owner of such premises, the occupier shall inform, in writing, any intending purchaser or occupier of the conditions of this notice, during negotiations for the sale or transfer of the premises.
- 6. (a) Where the occupier of the premises intends or is advised that the premises are to be sold, or that the occupancy of the premises is to be transferred, the occupier shall notify the Commission, in writing, of the impending sale or transfer and, where it may be advised, of the name of the prospective owner or occupier, subject to clause 3(b), at least one month prior to the date of impending sale or transfer; and
- (b) Where such intention is formed or advice is given within one month of the intended

sale or transfer of the premises, the occupier shall notify the Commission, in writing,

immediately after such intention is formed or advice is given.

PROFESSOR JORN NILAND Director

(signed - 28/09/1990)

Per A R G Hewett REGIONAL MANAGER, SOUTHERN SYDNEY (By Authorisation)

CERTIFIED MAIL

ABB Power Transmission Pty Limited Lots 2 and 3 DP 32998 Bapaume Road MOOREBANK NSW 2170

> 710359 JR:LDZ [1W.SSJRE001.LTR]

Dear Sir

ENVIRONNENTALLY HAZARDOUS CHEMICALS ACT, 1985 NOTICE UNDER SECTION 35

Whereas:

- 1 Tyree Electric Company Pty Ltd ("the company") is the occupier of premises:
 - located at lots 2 and 3 DP 32998 Bapaume Road, Moorebank, NSW, and known as Tyree Electric Company Pty Ltd;
 - contaminated by the prescribed activities of the manufacture, processing use and disposal of chemicals or chemical wastes, including polychlorinated biphenyls;
 - the State Pollution Control Commission issued a Section 35 notice under the Environmentally Hazardous Chemicals Act on 12 June 1990.

Take notice that:-

In accordance with the powers vested in the State Pollution Control Commission by the provision of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Commission from the date of this Notice hereby directs that:

- 1. Samples shall be taken from the premises to determine the extent, both in area and depth, of contamination. Such samples shall be taken to a plan and in a manner approved by the Commission, and shall be analysed for the presence of polychlorinated biphenyls (PCBs) by a NATA registered analytical laboratory. Such samples shall be taken and analysed by 30 March 1991.
- 2. The Commission shall be notified in writing of the results of the analyses required in Clause 1 of this Notice within seven days of the test results being known.
- 3. A report shall be prepared outlining strategies for the rehabilitation of the premises. Such report shall be submitted to the Commission for consideration.
- 4. All other work carried out on these premises with the intention, or having the effect, of
 - (a) reducing the contamination of the premises; or
 - (b) restoring or rehabilitating the premises; or

(c) removing, or disposing of, any soil, sand, rock, water or other solid or liquid material of any kind from these premises;

which would result in the disturbance of any land on the premises, shall be carried out only after prior notice to the Commission and in accordance with an approval, in writing, given by the Commission.

- 5. Where the premises to which this notice relates is to be sold, or responsibility for the premises otherwise relinquished, and the occupier is also the owner of such premises, the occupier shall inform, in writing, any intending purchaser or occupier of the conditions of this notice, during negotiations for the sale or transfer of the premises.
- 6. (a) Where the occupier of the premises intends or is advised that the premises are to be sold, or that the occupancy of the premises is to be transferred, the occupier shall notify the Commission, in writing, of the impending sale or transfer and, where it may be advised, of the name of the prospective owner or occupier, subject to clause 3 (b), at least one month prior to the date of impending sale or transfer; or

(b) Where such intention is formed or advice is given within one month of the intended sale or transfer of the premises, the occupier shall notify the Commission, in writing, immediately after such intention is formed or advice is given.

Professor J Niland DIRECTOR

(signed - 21/01/1991)

Per REGIONAL MANAGER, SOUTHERN SYDNEY (By authorisation)

CERTIFIED MAIL

Tyree Electric Company P/L Lots 2 and 3 DP 32998 Bapaume Road MOOREBANK NSW 2170

710359 JR:SM

12 JUN 1990

Environmentally Hazardous Chemicals Act, 1985 Notice Under Section 35

Whereas:-

- 1. Tyree Electric Company P/L ("the Company") is the occupier of premises:
 - located at Lots 2 and 3, D.P. 32998 Bapaume Road, Moorebank. NSW, and known as Tyree Electric Company P/L;
 - contaminated by the prescribed activities of the manufacture, processing, use and disposal of chemicals or chemical wastes, including polychlorinated biphenyls;
 - deemed to be contaminated by reason of their being environmentally degraded.

Take notice that:-

In accordance with the powers vested in the State Pollution Control Commission by the provisiorls of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Commission from the date of this notice hereby directs that:

- 1. All work carried out on these premises with the intention, or having the effect, of
- (a) reducing the contamination of the premises; or
- (b) restoring of rehabilitating the premises; or
- (c) removing, or disposing of, any soil. sand, rock, water or other solid or liquid material of any kind from the premises;

which would result in the disturbance of any land on the premises, shall be carried out only after prior notice to the Commission and in accordance with an approval, in writing, given by the Commission.

- 2. Where the premises to which this notice relates is to be sold, or responsibility for the premises otherwise relinquished, and the occupier is also the owner of such premises, the occupier shall inform, in writing, any intending purchaser or occupier of the condition of this notice, during negotiations for the sale or transfer of the premises.
- 3.(a) Where the occupier of the premises intends or is advised that the premises are to be sold, or that the occupancy of the premises is to be transferred, the occupier shall notify the Commission, in writing, of the impending sale or transfer and, where it may be advised, of the name of the prospective owner or occupier, subject to clause 3(b),

at least one month prior to the date of impending sale or transfer; and

(b) Where such intention is formed or advice is given within one month of the intended sale or transfer of the premises, the occupier shall notify the Commission, in writing, immediately after such intention is formed or advice is given.

PETER STANDEN DIRECTOR

Per (signed)

P. B, YATES 12.6.1990 <u>Chief – Outer Sydney, Chemicals and Waste Division</u> <u>by Authorisation</u>

(3W-SM7-JR04)

ABB Power Transmission Pty Limited P.O. Box 315 LIVERPOOL NSW 2170

Our Reference: CH787/5 Notice 397

Your Reference:

Contact: David Wai

CERTIFIED MAIL

FOR THE ATTENTION OF THE SECRETARY

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985

NOTICE UNDER SECTION 35

WHEREAS:-

- A. ABB Power Transmissions Pty Limited, "the Occupier" occupies premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.
- B. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds ("PCBs").
- C. The Occupier has submitted plans for remedial action for the premises on 24 August 1994.
- D. By a notice under Section 35 EHCA dated 2 November 1994 (Notice 391) the Environment Protection Authority (EPA) directed the Occupier to take prescribed remedial action.
- E. By a further notice under Section 35 EHCA dated 20 December 1994 (Notice 393) the EPA amended Notice 391.
- F. The EPA now wishes to further amend Notice 391.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985 (the "Act"), the EPA until further notice directs that:

- 1. This Notice amends Notice 391 dated 2 November 1994 in the following respect:
 - The surface sealing program work outlined in the report "Surface Sealing Programme Moorebank Status Report no. 2" of 23 August 1994 attached to the Occupier's letter of 24 August 1994 must be performed and completed by the revised date of 31 July 1995.

2. Notice number 391 and Notice number 393 remain in full force and effect in all other respects.

NEIL SHEPHERD Director-General

(signed - 16/03/1995)

Per ERROL SAMUEL DIRECTOR HAZARDOUS SUBSTANCES by Authorisation

cc Regional Manager Southern Sydney cc Town Clerk Liverpool cc Register of Section 35 Notices



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Your search for: Suburb - Moorebank

matched

1 application for a new licence

plus 17 licences (with applications or notices matching your search) *plus* 16 notices (where no licence is available online. See faq.)

Document	Name	Address	Status/Notice type
number			Status/Notice type
13333	TRANSPACIFIC INDUSTRIES PTY. LTD. application summary	22 Centenary Avenue MOOREBANK 2170	Pending
753	ABB AUSTRALIA PTY LIMITED licence summary	3 BAPAUME ROAD MOOREBANK 2170	No longer in force
2639	ABEL METAL SERVICES PTY LTD licence summary	16-18 KELSO CRESCENT MOOREBANK 2170	Issued
10490	BENEDICT INDUSTRIES PTY LIMITED licence summary	146 Newbridge Road MOOREBANK 2170	Issued
4612	BENEDICT INDUSTRIES PTY LIMITED licence summary	146 NEWBRIDGE ROAD MOOREBANK 2170	Issued
1207	BERESFORD CONCRETE PRODUCTS PTY LTD licence summary	2 FIELD CLOSE MOOREBANK 2170	Issued
2091	BORAL RECYCLING PTY LIMITED licence summary	NUWARRA ROAD MOOREBANK 2170	Surrendered
1179	BORAL RESOURCES (NSW) PTY LTD licence summary	5 GREENHILLS AVE MOOREBANK 2170	No longer in force
1199	C&M MASONRY PRODUCTS PTY LTD licence summary	20 KELSO CRES MOOREBANK 2170	Issued
2712	CONCRITE PTY LTD licence summary	26 SETON ROAD MOOREBANK 2170	No longer in force
2356	HOLCIM (AUSTRALIA) PTY LTD licence summary	28 REGENT CRESCENT MOOREBANK 2170	No longer in force
12344	INTERLINK ROADS PTY LTD licence summary	M5 (between Georges River and Camden Valley Way) MOOREBANK 2170	Surrendered
3099	JOYCE FOAM PTY LTD licence summary	5-9 BRIDGES ROAD MOOREBANK 2170	Issued
11653	KODAK (AUSTRALASIA) PROPRIETARY LIMITED <u>licence summary</u>	30 HEATHCOTE ROAD MOOREBANK 2170	Surrendered
6382	MOOREBANK AEROSOL FILLERS PTY LIMITED licence summary	11 CUNNINGHAM STREET MOOREBANK 2170	Issued
11637	PLATING R US PTY LTD licence summary	1 Mitchell Road MOOREBANK 2170	No longer in force
6453	SPHERE HEALTHCARE PTY. LIMITED licence summary	10-12 CHURCH ROAD MOOREBANK 2170	Issued
7281	SUPERIOR RADIATOR SERVICE PTY LTD licence summary	12 SETON ROAD MOOREBANK 2170	No longer in force
010534	AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED <u>notice summary</u>	2A/1 HELLES AVENUE MOOREBANK 2170	S 91 Clean-Up Notice
010729	AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED <u>notice summary</u>	2A/1 HELLES AVENUE MOOREBANK 2170	S 91 Clean-Up Notice

Page 1 of 2

12 October 2010

1 2

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Search Results

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matched

1 application for a new licence

plus 17 licences (with applications or notices matching your search) *plus* 16 notices (where no licence is available online. See faq.)

		Search again	Return to previous page
Document number	Name	Address	Notice type
010767	AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED <u>notice summary</u>	2A/1 HELLES AVENUE MOOREBANK 2170	S 91 Clean-Up Notice
1002632	AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED <u>notice summary</u>	2A/1 HELLES AVENUE MOOREBANK 2170	S 91 Clean-Up Notice
1002891	AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED <u>notice summary</u>	2A/1 HELLES AVENUE MOOREBANK 2170	S 91 Clean-Up Notice
1004051	AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED <u>notice summary</u>	2A/1 HELLES AVENUE MOOREBANK 2170	S 91 Clean-Up Notice
009593	BOURNE TRANSPORT PTY. LTD. notice summary	27 PAINE AVENUE MOOREBANK 2170	S 80 Surrender Licence
1013114	INTERLINK ROADS PTY LTD notice summary	PO BOX 700 MOOREBANK 2170	S 80 Surrender Licence
009297	NEW BRIGHTON GOLF CLUB LTD notice summary	180-184 NUWARRA ROAD MOOREBANK 2170	S 80 Surrender Licence
009299	PAC-RIM PRINTING PTY LTD notice summary	31-37 HEATHCOTE ROAD MOOREBANK 2170	S 80 Surrender Licence
010774	PHARMAGLASS PTY LTD notice summary	144 MOOREBANK AVENUE MOOREBANK 2170	S 80 Surrender Licence
010464	PHILIPS ELECTRONICS AUSTRLIA LIMITED notice summary	2 GREENHILLS AVENUE MOOREBANK 2170	S 80 Surrender Licence
010504	PHILIPS PROJECTS AND TRAFFIC SYSTEMS notice summary	2 GREENHILLS AVENUE MOOREBANK 2170	S 80 Surrender Licence
009301	QUALITY BAKERS notice summary	CNR CHURCH RD & MOOREBANK AVE MOOREBANK 2170	S 80 Surrender Licence
010772	THOMAS GOODEN FOUNDRY SERVICES PTY LTD notice summary	82-84 HEATHCOTE ROAD MOOREBANK 2170	S 80 Surrender Licence
009629	WILSON AND GILKES PTY LTD notice summary	337-349 NEWBRIDGE ROAD MOOREBANK 2170	S 80 Surrender Licence

Page 2 of 2

12 October 2010

<u>1</u>2

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Licence summary

Your search for: Suburb - Moorebank

Summary of Licence No: 753

View this lisense (DDF	decument O Lth								
View this licence (PDF									
Licence holder:	ABB AUSTRALI	ΑΡΤΥΙ	IMITED						
Premises:	ABB AUSTRALIA	PTY LIN	IITED						
	BAPAUME ROA	d Moof	REBANK 2170						
	GA: Liverpool	GA: Liverpool Catchment: Sydney Coast-Georges River							
Administrative fee:	\$1,520.00								
Status of licence:	Status of licence: No longer in force								
Licence type:	ype: Premises								
Activity type:	Hazardous, Ind	ustrial o	r Group A Waste C	Gener	ation or Storage				
Licence review:	Completed 02 Ju	n 05							
Applications		1		1					
Number		Applica	ation type	Current status					
141918 View application	<u>n</u>	Licence Transfer		Approved					
141846 View applicatio	<u>n</u>	Licence Variation		Approved					
Notices									
Number		Issue date		Notice type					
1048430 View notice		03 Jun 05			Licence Variation				
1026074 View notice		26 Mar	03	S 58 Licence Variation					
1023003 View notice		05 Dec	02	S 58 Licence Variation					
Annual Return Infor	mation <u>inform</u>	ation at	out non_complian	ce					
Start date	End date		Date received		Non-complianc				
01 Jan 07	31 Dec 07		29 Jan 08		No				
01 Jan 06	31 Dec 06		09 Feb 07		No				
01 Jan 05	31 Dec 05		20 Feb 06						

01 Jan 04	31 Dec 04	25 Feb 05	No
01 Jan 03	31 Dec 03	17 Feb 04	No
01 Jan 02	31 Dec 02	09 May 03	No
01 Jan 01	31 Dec 01	18 Feb 02	Yes <u>Details</u>
01 Jan 00	31 Dec 00	26 Feb 01	No

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Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED, ACN/ARBN 002 348 610, 2A/1 Helles Avenue, MOOREBANK NSW 2170 REGISTERED POST

Attention: Craig Williams Notice Number: 1002891 File Number: 401359A1

Date: 22 November 2000

NOTICE OF CLEAN UP ACTION

Section 91 Protection of the Environment Operations Act 1997

BACKGROUND

- 1. This Notice relates to the premises located at 2A/1 Helles Avenue Moorebank NSW 2170 ("the premises"). The premises include the warehouse and the immediate surrounds outside the warehouse (within 20 square metres of the warehouse entry Eastern side)
- 2. The premises are occupied by Australian Pacific Oil Company Pty Limited (ACN 002 348 610) (APO).
- 3. The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO's share capital.
- 4. On 2 November 2000, Officers of the Environment Protection Authority (EPA) inspected the premises. Jamie Williams of APO was present during the inspection ("the inspection"). EPA officers observed approximately eighty (80) 205 litre drums, two (2) intermediate bulk storage containers (IBC) and ten (10) 20 litre containers stored within the warehouse at the premises. The drums were stored on pallets and were stacked 2 to 3 pallets high. The containers were stored on the floor of the warehouse. The EPA officers observed that the drums, containers and IBC's stored within the warehouse were not stored in a bunded area. Approximately 5 drums were leaking and approximately 10 drums were damaged or unsealed.
- 5. EPA Officers observed approximately seven (7) 205L drums and one (1) IBC located outside the warehouse. The drums were ³/₄ full and the IBC was full. The drums were damaged and not sealed with their contents exposed to the weather. The drums and IBC were not stored in a bunded area.
- 6. During the inspection the EPA officers were informed by Mr Williams that the drums, IBC's and containers stored waste.
- 7. EPA Officers observed that many of the drums were labelled with dangerous goods coding (specifically "corrosive" and "toxic") and some drums were marked "environmentally hazardous" and "poison".
- 8. The EPA reasonably suspects that an environmental offence has been committed, in that waste has been placed on the premises unlawfully.
- 9. The condition of the drums, IBCs and containers pose a risk of leakage as a result of which pollution is likely to occur.

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

10. The drums, IBCs and containers located within the warehouse were labelled with EPA tape by EPA Officers; and, the drums and IBCs located outside the warehouse, is for the purposes of this Notice known as the secured areas ("the secured areas").

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

1. By 24 November 2000:

- (a) Engage the services of a suitably qualified consultant to conduct sampling of all drums, IBC's and containers that were marked by an EPA Officer with an ("EPA label"). (The "EPA label" is A4 paper containing the EPA logo in the top right-hand corner. A number approximately 14cm high is printed in the centre of the label). The "EPA label" is secured to the drum/container with EPA tape and is signed by an authorised Officer of the EPA. The EPA label is also marked with black spray paint in the form of an "x".
- (b) The collected samples must be representative of the contents profile of the drum/container. The sampling program must be conducted in accordance with AS/NZS 5667.1:1998 Water quality sampling Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.
- (c) The consultant is to obtain duplicate samples from drums/containers as directed by the authorised EPA officer present during sampling. All samples are to be sealed by the consultant and labelled with the details of date and time sampled, drum/IBC/container identification ("EPA label") number and signed by the sampler. All duplicate samples are to be provided to the EPA officer.
- (d) All sampling is to be conducted in the presence of an authorised EPA Officer
- (e) All samples are to be analysed for pH, heavy metals, organics (GC/MS Scan) flammability (flashpoint) and sustained combustion. The laboratory or laboratories conducting sample analysis must only use approved test methods, and must be accredited by NATA or other appropriate accrediting authority to conduct analysis of required analytes.
- (f) Notice of the proposed date of sampling must be provided to the EPA's Acting Manger Sydney Waste (ph. 9995 5337) three (3) working days prior to the intended date.

2 By the 8 December 2000:

- (a) Cause all samples analysed by the consultant to be classified in accordance with the EPA document "Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes May 1999".
- (b) Provide classification results to the Acting Manager Sydney Waste (Postal Address: P O Box A290 Sydney South NSW 1232)

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of \$320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

.....

Mr Greg Sheehy Acting Principal Officer Sydney Waste (By Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice

• The maximum penalty for a corporation is \$250,000 and a further \$120,000 for each day the offence continues. The maximum penalty for an individual is \$120,000 and a further \$60,000 for each day the offence continues.

What you can do if you are not the polluter

If you comply with this clean-up notice but you are not the person who caused the pollution incident to
which the notice relates, you have a right to go to court to recover your costs of complying with the notice
from the person who caused the incident.

Deadline for paying fee

• The fee must be paid by no later than 30 days after the date of this notice.

How to pay fee

- by cheque made payable to the NSW Environment Protection Authority (Postal Address: P O Box A290 Sydney South NSW 1232)
- Please include the payment slip from the attached invoice/statement with your payment.

Notice of Clean Up Action



How to apply for extension of time to pay/waiver of fee

- (c) Any application should be made in writing to the Environment Protection Authority and sent to Acting Manager Sydney Waste (Postal Address: P O Box A290 Sydney South NSW 1232)
- The application should set out clearly why you think your application should be granted.

Other costs

The Protection of the Environment Operations Act allows the Environment Protection Authority to
recover from you reasonable costs and expenses it incurs in monitoring action taken under this notice,
ensuring the notice is complied with and associated matters. If you are going to be required to pay these
costs and expenses you will later be sent a separate notice called a "Notice Requiring Payment of
Reasonable Costs and Expenses"



Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED, ACN/ARBN 002 348 610, 2A/1 Helles Avenue, MOOREBANK NSW 2170 STANDARD POST

Attention: Mr Craig Williams

Notice Number: 1002632

File Number:

Date: 03-Nov-2000

NOTICE OF CLEAN UP ACTION

Section 91 Protection of the Environment Operations Act 1997

BACKGROUND

- 1. This Notice relates to the premises at 2A/1 Helles Avenue Moorebank NSW 2170 "the premises". The premises include the warehouse and the immediate surrounds outside the warehouse (within 20 sqm of the warehouse).
- 2. The premises is occupied by Australian Pacific Oil Company Pty Limited (ACN 002 348 610) "APO".
- 3. The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO's share capital.
- 4. On the 2 November 2000 Officers of the EPA inspected the premises. Jamie Williams of APO was present during the inspection. EPA officers observed approximately 10x20L containers, 80 x205L drums and 2 intermediate bulk storage container "IBC" stored within the warehouse at the premises. The drums were stored on pallets and were stacked 2 to 3 high. The containers were stored on the floor of the warehouse. EPA observed that the drums, containers and IBC's stored within the warehouse were not stored in a bunded area. Approximately 5 drums were leaking and approximately 10 drums were damaged or unsealed.
- 5. EPA Officers observed approximately 7x205L drums and 1 IBC located outside the warehouse. The drums were ³/₄ full, the IBC was full. The drums were not sealed, the material was exposed to the weather, materials were not stored in a bunded area and materials were stored in drums which were damaged.
- 6. During the inspection the EPA officers were informed by Mr Williams that the drums, IBC's and containers stored material which was waste.
- 7. EPA Officers observed many of the drums were labelled with dangerous goods coding (specifically "corrosive" and "toxic") and some drums were marked "environmentally hazardous" and "poison".
- 8. The EPA reasonably suspects that a pollution incident has occurred in that waste has been placed on the premises unlawfully.
- 9. The condition of the containers, drums and IBC's pose a risk of leakage as a result of which pollution is likely to occur.

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

10. The labelled drums, IBC's and containers with EPA tape (labelled by EPA Officers) within the warehouse and the drums and IBC's located outside the warehouse is for the purposes of this Notice know as the ("secured areas").

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

- 1) On and from 3 November 2000 no further industrial waste, hazardous waste or group A waste is to be bought onto the premises.
- 2) On and from 3 November 2000 no containers, drums or IBC's within the secured areas of the premises are to be moved within the premises or from the premises without the prior written permission from the Environment Protection Authority.

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of \$320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

.....

Mr Greg Sheehy Acting Principal Officer Sydney Planning (By Delegation)

INFORMATION ABOUT THIS NOTICE

Notice of Clean Up Action

Section 91 Protection of the Environment Operations Act 1997

Penalty for not complying with this notice

• The maximum penalty for a corporation is \$250,000 and a further \$120,000 for each day the offence continues. The maximum penalty for an individual is \$120,000 and a further \$60,000 for each day the offence continues.

What you can do if you are not the polluter

• If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Insert possible methods of payment

Deadline for paying fee

• The fee must be paid by no later than 30 days after the date of this notice.

How to pay fee

- By cheque payable to the Environment Protection Authority
- Please include the payment slip from the attached invoice/statement with your payment.

How to apply for extension of time to pay/waiver of fee

• Any application should be made in writing to the Environment Protection Authority and sent to *Manager Sydney Waste, Environment Protection Authority, PO Box A290, Sydney South, NSW* 1232. The application should set out clearly why you think your application should be granted.

Other costs

The Protection of the Environment Operations Act allows the Environment Protection Authority
to recover from you reasonable costs and expenses it incurs in monitoring action taken under
this notice, ensuring the notice is complied with and associated matters. (If you are going to be
required to pay these costs and expenses you will later be sent a separate notice called a
"Notice Requiring Payment of Reasonable Costs and Expenses"



Notice No: 010729 Issued: 26-Jul-2000 Notice Type: POEO S. 91 CLEAN-UP DIRECTION Premise: AUSTRALIAN PACIFIC OIL COMPANY PTY LTIMITED MOOREBANK 2170 Industry: WASTE MANAGEMENT FACILITIES OR ACTIVITIE Local Gov: CULCAIRN Catchment: MURRAY RIVERINA

Direction to take clean-up action

Section 91 Protection of the Environment Operations Act 1997

Registered Post

AUSTRALIAN PACIFIC OIL COMPANY PTY LTIMITED 2A/1 HELLES AVENUE MOOREBANK NSW 2170

- Our ref: N 010729 P 011558 241009
- Date: 26 Jul y 2000

NOTICE OF CLEAN UP ACTION

BACKGROUND

- (A) This Notice relates to premises at Lots 3 & 4 Walbundrie Road DP109394, Culcairn NSW 2660 ("the Premises").
- (B) The Premises are owned by Amery trading Company Pty Limited (ACN 079 130 251; ABN 92 079 130 251) ("AMERY"). Craig Leonard Williams is the sole director and secretary of Amery and owns its share capital.
- (C) Officers of the EPA first inspected the Premises on 1 June 2000 and observed that in excess of 2500, 205 litre drums and other containers were stored at the Premises in two areas.
- (D) The EPA reasonably suspects that the drums were caused to be transported to the Premises by or on behalf of either or both of Australian Pacific Oil Company Pty Limited (ACN 002 348 610) ("APO") and Craig Leonard Williams.
- (E) The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO's share capital.
- (F) On 1 June 2000, approximately 1260 drums at the Premises were observed to be stored on the bank of Billabong Creek (the "First Area"). The drums were stored on pallets stacked up to three pallets high. The base of the First Area was soil.
- (G) On 1 June 2000 approximately 1000 drums at the Premises were observed to be stored in an open sided shed ("the Second Area"). The floor of the Second Area was concreted however the EPA does not believe that the surface covering is of sufficient quality to contain the materials contained within the drums in the event of a spill or leak.

- (H) The condition of the drums in the First Area were observed to pose a risk of leakage from the drums both to soil at the Premises and, to Billabong Creek.
- (I) In relation to the drums in the First Area, the EPA:
 - (a) moved them to another location at the Premises (the "Third Area") pending further investigation; and
 - (b) placed a unique waterproof label on each of them.
- (J) The EPA's investigation has revealed that drums originally stored in the First and Second Areas contain materials which, the EPA reasonably suspects to be waste.
- (K) Officers of the EPA observed that many of the drums originally stored in both the First and Second Areas were severely corroded, had holes in them, had previously expanded from suspected internal pressure or had been otherwise damaged by impact or other cause.
- (L) The EPA reasonably suspects that some of the drums originally located in the First and Second Area pose a risk to the environment should their contents leak onto the ground or if the drums are exposed to fire or other calamity.
- (M) The EPA has taken samples for analysis of the contents of some of the drums. The EPA believes that at least a significant portion of the drums contain wastes classified as Hazardous or Group A pursuant to the Protection of the Environment Operations Act 1997 in that as indicated by the results of that analysis there are materials at the Premises which have displayed flash points when tested in accordance with the requirements of the Australian Code for the Transport of Dangerous Goods by Road and Rail which would make them Dangerous Goods or classify them as Hazardous wastes pursuant to the Protection of the Environment Operations Act 1997.
- (N) Unless exempted, the storage of Hazardous or Group A waste at premises is a scheduled activity which requires an environment protection licence. The EPA does not believe that the storage of the drums is exempted from the schedule.
- (0) An occupier of premises commits an offence against the Protection of the Environment Operations Act 1997 if a scheduled activity is carried on at the premises unless the person is, at the time the activity is carried on, the holder of an environment protection licence that authorises the activity to be carried on at the premises.
- (P) The EPA has not issued a licence to any person to conduct this class of activity at the Premises.
- (Q) The EPA reasonably believes that the storage of some or all of the drums at the Premises constitutes "development" requiring development consent under the Environmental Planning and Assessment Act 1979 and that no such consent has been granted to any person.
- (R) The EPA reasonably suspects that the material contained in the drums has been placed on the Premises unlawfully.
- (S) The EPA reasonably suspects that a pollution incident has occurred in that continued storage of the drums at the Premises, is likely to lead to spill or escape of the material contained within some of the drums, and land pollution or water pollution is a likely result of any such spill or escape.

- (T) The EPA reasonably suspects that a pollution incident has occurred in that waste has been placed on the premises unlawfully.
- (W) The EPA reasonably suspects that APO has caused a pollution incident.
- (X) The EPA intends to require APO to provide the EPA with information as to the precise contents of each of the drums and containers at the Premises through results of analytical examination.
- (Y) In a record of interview with Craig Leonard Williams on 25 July 2000, Mr Williams indicated that he did not know the contents of many of the drums at the Premises. On 25 July 2000, Mr Williams agreed on behalf of APO to accept the responsibilitiy for maintaining security over the Premises pending identification of the drums.
- (Z) The EPA intends to order APO to remove all materials from the Premises which can not be legally stored therein, to a location which can and is licensed by the EPA to accept them. However this can not be done until such time as the contents of all the drums and containers is known.
- (i) Pending proper identification of the contents of the drums at the Premises, and consideration of the proper options for lawful transport of them from the Premises, the EPA proposes to require APO to provide 24 hour security monitoring of the drums to prevent or minimise the likelihood of pollution occurring as a result of storage of the drums at the Premises.

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority ("EPA") directs AUSTRALIAN PACIFIC OIL COMPANY PTY LTIMITED to take the following clean-up action :

- 1 On and from 17:00 hours on the date of this Notice, cause to be provided at the Premises (24 hours per day 7 days per week), the services of a Company which holds a Master Licence issued under the Security Industries Act 1997 to perform the following duties:
 - (a) Maintain a written record of the name and address of all persons entering and leaving the Premises, the time each person entered and left the Premises and the activity that the person carried out at the Premises;
 - (b) Ensure the security of all drums and containers within the second and third areas;
 - (c) Immediately report to APO any circumstance at the Premises that may be likely to result in harm being caused to the environment; and
 - (d) Upon the request of an authorised officer of the EPA, provide the written record referred to in condition 1 (a) of this Notice to the authorised officer.
- 2. On and from 17:00 hours on the date of this Notice, cause the services of the licensed security company to be maintained, until such time as the EPA notifies APO in writing that the services of the licensed security Company are no longer required at the Premises.

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of \$320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

> Rob Monteith Regional Manager MURRAY (by Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice The maximum penalty for a corporation is \$250,000 and a further \$120,000 for each day the offence continues. The maximum penalty for an individual is \$120,000 and a further \$60,000 for each day the offence continues.

What you can do if you are not the polluter If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Deadline for paying fee

The fee must be paid by no later than 25-Aug-2000 which is 30 days after the date of this notice.

How to pay fee Please send your cheque for the fee to : Environment Protection Authority Finance Branch PO Box A290 SYDNEY SOUTH NSW

To ensure your payment is processed correctly please attach to the cheque the remittance slip from the invoice.

How to apply for extension of time to pay/waiver of fee

Any application should be made in writing to the EPA and sent to : The Regional Manager EPA MURRAY Regional Office P 0 BOX 544

1232

- ALBURY 2640
- The application should set out clearly why you think your application should be granted.

Other costs

The Protection of the Environment Operations Act allows the EPA to recover from you reasonable costs and expenses it incurs in monitoring N010729 action taken under this notice, ensuring the notice is complied with and associated matters. (If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a 'Compliance Cost Notice'.)

Notice No: 010534 Issued: 07-Jun-2000 Notice Type: POEO S. 91 CLEAN-UP DIRECTION Premise: AMERY TRADING COMPANY PTY LIMITED FAIRFIELD 2165 Industry: WASTE MANAGEMENT FACILITIES OR ACTIVITIE Local Gov: CULCAIRN Catchment: MURRAY RIVERINA Direction to take clean-up action

Section 91 Protection of the Environment Operations Act 1997

Registered Post

AMERY TRADING COMPANY PTY LIMITED 89-93 LISBON STREET FAIRFIELD NSW 2165

Our ref: N 010534 P 011558 241009

Date: 7 June 2000

NOTICE OF CLEAN UP ACTION

BACKGROUND

- (a) This Notice relates to premises at LOTS 3 & 4 WALBUNDRIE ROAD DP190394, CULCAIRN NSW 2660 ("the premises").
- (b) Following an inspection of the premises on 1 June 2000 it was observed that in excess of 2500 2051 itre drums containing various wastes including flammable liquids were stored on the premises.
- (c) The EPA reasonably suspects these wastes were placed on the premises and disposed of unlawfully.
- (d) The EPA is aware that Craig Leonard Williams is a director Of Both Amery Trading Company Pty Limited and Australian Pacific Oil Company Pty Limited. The EPA reasonably suspects that both of these comapany's have been involved in the transport and storage of the drums which are located at the premises.

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority ("EPA") directs AMERY TRADING COMPANY PTY LIMITED to take the following clean-up action :

- 1 On and 7 June 2000 no further industrial waste, hazardous waste, group A waste or group B waste is to be received, lodged or stored on the premises.
- 2 On and 7 June 2000 no materials currently located within the bunded area on the premises are to be removed from the premises without the prior written permission of the Regional Manager of the Murray Region, Environment Protection Authority.

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of \$320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

> David Cook Head Regional Operations Unit MURRAY (by Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice The maximum penalty for a corporation is \$250,000 and a further \$120,000 for each day the offence continues. The maximum penalty for an individual is \$120,000 and a further \$60,000 for each day the offence continues.

What you can do if you are not the polluter If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Deadline for paying fee

The fee must be paid by no later than 07-Jul-2000 which is 30 days after the date of this notice.

1232

How to pay fee Please send your cheque for the fee to : Environment Protection Authority Finance Branch PO Box A290 SYDNEY SOUTH NSW

To ensure your payment is processed correctly please attach to the cheque the remittance slip from the invoice.

How to apply for extension of time to pay/waiver of fee

Any application should be made in writing to the EPA and sent to : The Regional Manager EPA MURRAY Regional Office P 0 BOX 544

- ALBURY 2640
- The application should set out clearly why you think your application should be granted.

Other costs

The Protection of the Environment Operations Act allows the EPA to recover from you reasonable costs and expenses it incurs in monitoring N010534 action taken under this notice, ensuring the notice is complied with and associated matters. (If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a 'Compliance Cost Notice'.)

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED, ACN/ARBN 002 348 610, 2A/1 Helles Avenue, MOOREBANK NSW 2170 REGISTERED POST

Attention: Mr Jamie Williams

Notice Number: 1004051 File Number: 401359A1/03

Date:07-Feb-2001

NOTICE OF CLEAN UP ACTION

Section 91 Protection of the Environment Operations Act 1997

BACKGROUND

- 1. This Notice relates to the premises at 2A/1 Helles Avenue Moorebank NSW 2170, being Lot 210 DP 829555 ("the premises").
- 2. The premises are occupied by Australian Pacific Oil Company Pty Limited (ACN/ARBN: 002 348 610) ("APO")
- 3. The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO's share capital.
- 4. On 2 November 2000, officers of the EPA inspected the premises. Jamie Williams was present during the inspection.
- 5. EPA officers observed approximately 1000x205 litre drums, approximately 50x 20 Litre, 65 x 60 litre and 4 x 1000 litre containers stored within the warehouse section of the premises. The drums were stored on pallets and were stacked 2 to 3 drums high. The EPA officers observed that the drums, containers stored within the warehouse were not stored within a bunded area.
- 6. The premises was also observed to contain approximately 5X20,000 litre tanks and other packaged containers of oil products. Jamie Williams stated words to the effect that the 20,000 litre tanks held various grades of oil used for oil blending purposes at the premises.
- 7. The EPA reasonably suspects that the drums, containers and IBC's stored at the premises were caused to be transported to the premises by APO by it's servants, agents or contractors.
- 8. During the inspection, EPA officers were informed by Jamie Williams words to the effect that the drums, IBC's and containers contained material which was waste. Jamie Williams stated words to the effect that he was unsure what material was stored in each of the drums.
- 9. EPA officers observed that many of the drums were labelled with dangerous goods codings (specifically "corrosive" and "toxic") and that some drums were marked "environmentally hazardous" and "poison".

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

- 10. On 3 November 2000, a Clean Up Notice No 1002632 was issued to APO under Section 91 Protection of the Environment Operations Act 1997. This Notice directed APO not to accept any group A, hazardous or industrial waste at the premises and not to move the drums, containers and IBC's stored at the premises.
- 11. On 22 November 2000, a Clean up Notice No 1002891 was issued to APO under Section 91 Protection of the Environment Operations Act 1997. This Notice directed APO to sample and test the material within the drums located at the premises.
- 12. On 6 and 7 December 2000, sampling of material from 65 randomly selected drums was conducted by officers of the EPA. Results of the sampling indicated that some of the material in the drums that were sampled had flashpoints below 60 degrees celsius and high levels of heavy metals.
- 13. The EPA reasonably suspects that a significant proportion at the premises contain wastes classified as Hazardous or Group A pursuant to the Protection of the Environment Operations Act 1997.
- 14. The EPA reasonably suspects that a large proportion of the drums contain waste.
- 15. Unless exempted, the storage of Hazardous or Group A waste at premises is a scheduled activity, which requires an environment protection licence. The EPA does not believe that the storage is exempt.
- 16. An occupier of a premises commits an offence against the Protection of the Environment Operations Act 1997 if a scheduled activity is carried out at the premises, unless the person is, at the time the activity is carried out, the holder of an environment protection licence that authorises the activity to be carried out at those premises.
- 17. The EPA has not issued a licence to APO or any other person to accept or store hazardous, industrial and /or Group A waste at the premises and that the storage is thereby unlawful.
- 18. The EPA reasonably believes that:
 - (a) the storage of some or all of the drums at the premises constitutes "development" requiring development consent under the Environment Planning and Assessment Act 1979;
 - (b) that no such consent has been granted to APO or any person for storage of these materials at the premises; and
 - (c) that the storage is thereby unlawful.
- 19. The EPA reasonably suspects that a pollution incident has occurred in that waste has been placed on the premises unlawfully.

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

- 1. By 6 March 2000:
 - (a) Cause a unique water proof identifying label to be placed on each of the drums, containers and IBC's stored at the premises (the "drums")
 - (b) Cause an inventory to be prepared containing the unique identifying labels that have been placed on the drums;

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

- (c) Classify the contents of each of the drums in accordance with the EPA document "Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes; (copy attached)
- (d) Record the results of classification of each drum in the inventory against the unique identifying label for that drum;
- (e) Subject to clause 5 of this notice, cause each of the drums at the premises containing waste to be lawfully transported from the premises to a place which:
 - I. Can lawfully receive the waste fro treatment or disposal; and
 - II. Prior to the transportation taking place is occupied by a person who has agreed in writing to accept the waste at that place; and
 - (f) Subject to clause 5 of this notice, cause any remaining drums to be lawfully transported from the premises to a place that may lawfully receive the drums for storage.
- Not less than 24 hours prior to dispatch of each and every load of waste from the premises, (and not withstanding the time specified for the preparation of the inventory and classification of materials set in requirement 1(b) and 1(c), provide to the Manager Sydney Waste Section, Environment Protection Authority, a report containing;
 - (a) an inventory of the drums that relate to that load of waste including:
 - (i) an annotation specifying the results of classification of each drum relating to that load; and
 - (ii) where the contents of any number of drums in that load have been decanted into a tanker or other container prior to removal, the identifying number of each of the drums decanted into that tanker or container;
 - (b) the destination of that load;
 - (c) the intended date and time of departure of that load from the premises;
 - (d) the State of registration and the registration number of all vehicles to be used to transport that load from the premises;
 - (e) the waste transport licence number of all vehicles to be used to transport that load from the premises;
 - (f) the route to be used to transport the material in that load from the premises; and
 - (g) a copy of all documentation generated in relation to transport of that load from the premises.
- 3. Within 24 hours of the transport and delivery of waste to its place of destination in accordance with clause 1(e) of this Notice, provide to the Manager, Sydney Waste Section, Environment Protection Authority, an annotated inventory of the waste received at the destination. The inventory must, in relation to each drum or tanker and/or container, include a written acknowledgment by the occupier of the place that the drum, tanker and/or container was received at the destination.
- 4. The transport of material as required by this Notice must only be undertaken in accordance with the route specified in the information provided in accordance with clause 2(f) unless a written request to an alternate route has been provided to, and agreement received from, the Manager, Sydney Waste Section, Environment Protection Authority.

Notice of Clean Up Action



Section 91 Protection of the Environment Operations Act 1997

5. To the extent that requirements of this Notice have been conducted in relation to drums in accordance with this Notice, being such requirements in this Notice as are specified to be conducted prior to the transport of the drums from the premises, the requirement that the drums must not be moved from the premises as directed in Notice No 1002632 dated 3 November 2000 ceases to have effect in relation to those drums.

PLEASE NOTE:

The requirements of this notice do not and are not intended to limit any applicable requirement imposed by the Protection of the Environment Operations (Waste) Regulation 1996, the Protection of the Environment Operations Act 1997 or any other law.

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

.....

Mr Greg Sheehy Acting Principal Officer Sydney Planning (By Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice

• The maximum penalty for a corporation is \$250,000 and a further \$120,000 for each day the offence continues. The maximum penalty for an individual is \$120,000 and a further \$60,000 for each day the offence continues.

What you can do if you are not the polluter

• If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Other costs

The Protection of the Environment Operations Act allows the Environment Protection Authority
to recover from you reasonable costs and expenses it incurs in monitoring action taken under
this notice, ensuring the notice is complied with and associated matters. (If you are going to be
required to pay these costs and expenses you will later be sent a separate notice called a
"Notice Requiring Payment of Reasonable Costs and Expenses"

Notice of Clean Up Action

Section 91 Protection of the Environment Operations Act 1997



Appendix G

Hazardous chemical records provided by Defence



Hazardous Substance Register



Printed from Chem Alert

(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites

Stock Number	Product Name	Colour Rating	Risk And Safety Phrases
Site: 0367 SME/ S	001 SME HQ/ G01 OFFICES		
66-023-8581	LIQUID PAPER CORRECTION FLUID (20ML BOTTLE)	Green	R11,R48/20,R52/53,R62,R63,R65,S13,S16,S23,S26,S29,S40,S46,S51 S53,S60,S7,S9
24698	MORTEIN FAST KNOCKDOWN FLY AND INSECT KILLER AEROSOL	Amber	R12,R38,R51/53,S16,S2,S23,S24/25,S26,S46
Site: 0367 SME/ S	001 SME HQ/ G18 REGISTRY		
26793	LIQUID PAPER CORRECTION PEN, LIQUID PAPER SQUEEZE PACK	Green	R11,R38,R51/53,R65,R67,S13,S16,S23,S36,S40,S46,S51,S57,S60,S6 ,S7/9
Site: 0367 SME/ S	001 SME HQ/ G19 SHOP FRONT		
66-023-8581	LIQUID PAPER CORRECTION FLUID (20ML BOTTLE)	Green	R11,R48/20,R52/53,R62,R63,R65,S13,S16,S23,S26,S29,S40,S46,S51 S53,S60,S7,S9
Site: 0367 SME/ S	006 SEW/ WAB/ POL SHED		
66-093-8337	BP AUTOMOTIVE DIESEL FUEL	Amber	R40,R65,S2,S24,S36/37,S61,S62
66-108-0884	BP REGULAR UNLEADED PETROL	Amber	R12,R38,R45,R46,R51/53,R63,R65,R67,S16,S2,S23,S24,S36/37,S45,S61,S62
Site: 0367 SME/ S	011 CW (TRADE TRAINING)/ GAS CAGE		
226670	ACETYLENE	Amber	R12,R5,R6,S16,S33,S9
226670	ACETYLENE	Amber	R12,R5,R6,S16,S33,S9
Site: 0367 SME/ S	011 CW (TRADE TRAINING)/ PAINT BOOTH		
4636	MIROCAT PC 3240	Amber	R11,R20/21,R38,S2,S25
Site: 0367 SME/ S	011 CW (TRADE TRAINING)/ Q STORE		
15006	FULLER MULTI-PURPOSE SILICONE SEALANT - TRANSLUCENT	Amber	R43,S24/25,S37,S51
1979 Site: 0367 SME/ S	SUNLIGHT DISHWASHING LIQUID	Amber	R36,S26
66-132-9251 (A)	AEROSHELL GREASE 7	Amber	R43,R52/53,S24,S37,S61
CONTRACTOR AND A DOWN	012 TPT SME/ BATTERY CAGE	Annoar	N40,N02/00,024,001,001
225588	SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID	Red	R35,R41,S2,S26,S30,S37/39

Hazardous Substance Register



Printed from Chem Alert

(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites

Stock Number	Product Name	Colour Rating	Risk And Safety Phrases
Site: 0367 SME/ S	012 TPT SME/ CLEANING LOCKER 1		
230967 66-152-2728 3728 4192	GREASE-A-WAY MORTEIN ENERGY BALL FLY KILLER AEROSOL ODOURLESS FLY SPRAY POLYGLAZE BUG, TAR AND GRIME REMOVER	Amber Amber Amber Amber	R36/38,S1/2,S26,S37/39,S45 R38,R51/53,S16,S2,S23,S24/25,S26,S46 R51/53,R52,R65,S13,S2,S25,S26,S37,S38,S62 R65,S62
Site: 0367 SME/ S	012 TPT SME/ CLEANING LOCKER 2		
230967 3491 66-100-4753 98-203-8527 3728 3469 4192	GREASE-A-WAY KLEENSOFF F&M METHYLATED SPIRITS MINERAL TURPENTINE ODOURLESS FLY SPRAY PLUMBWELD PVC CEMENT N BLUE POLYGLAZE BUG, TAR AND GRIME REMOVER	Amber Green Amber Amber Amber Amber Amber	R36/38,S1/2,S26,S37/39,S45 R20/21/22,S2,S24/25,S26,S36/37/39 R11,S16,S2,S7 R10,R51/53,R65,R66,R67,S16,S2,S23,S24/25,S61,S62 R51/53,R52,R65,S13,S2,S25,S26,S37,S38,S62 R11,R20,R36/37,R66,R67,S23,S24/25,S36/37/39,S38 R65,S62
Site: 0367 SME/ S	012 TPT SME/ FLC 1		
66-093-5595 Site: 0367 SME/ S	2.26 AEROSOL 012 TPT SME/ FLC 2	Amber	R65,S23,S24,S62
01-194-3457 220256 26837 6030	3M HI-STRENGTH SPRAY ADHESIVE 90 (AEROSOL) 3M PERFECT-IT II FOAM POLISHING PAD GLAZE - DARK CRC 5073 HOT SHOT (AEROSOL) DURA-GARD	Amber Amber Amber Amber	R12,R36,R51/53,R66,R67,S16,S2,S23,S51,S61 R52/53,R66,S2,S23,S24/25,S26,S28,S51,S61 R65,S45,S53 R10,R37/38,R65,S16,S2,S23,S24,S45,S62
Site: 0367 SME/ S	012 TPT SME/ FLC 3		
66-148-1737 Site: 0367 SME/ S	ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS 012 TPT SME/ FLC 4	Amber	R10,R20/21,R38,S36/37
66-033-5534 66-151-5756 66-017-9404 66-152-2728	AEROSTART CO CONTACT CLEANER (AEROSOL) (PRE JUNE 2010) DRY FILM LUBRICANT (122L) SPRAY MORTEIN ENERGY BALL FLY KILLER AEROSOL	Amber Amber Amber Amber	R12,R65,S45,S53 R12,R36,R44,R67,S16,S23,S26,S27,S39,S40,S46,S51,S60,S7/9 R38,R51/53,S16,S2,S23,S24/25,S26,S46

Hazardous Substance Register



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(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites

Stock Number	Product Name	Colour Rating	Risk And Safety Phrases
Site: 0367 SME/ S	012 TPT SME/ FLC 5		
66-148-1737	ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS	Amber	R10,R20/21,R38,S36/37
Site: 0367 SME/ S	012 TPT SME/ GAS CAGE		
17880 17880	LIQUID PETROLEUM GAS (LPG) LIQUID PETROLEUM GAS (LPG)	Amber Amber	R12,S16,S33,S9 R12,S16,S33,S9
Site: 0367 SME/ S	012 TPT SME/ POL SHED		
4399 23124 98-203-8527 2352 27001	APPLIED 1011 (PRODUCT OBSOLETE) METHYLATED SPIRITS 100% MINERAL TURPENTINE MOLYBOND 122L DRY FILM LUBRICANT WD-40 BULK LIQUID	Amber Amber Amber Amber Amber	R65,S23,S24,S45,S53 R11,S16,S2,S7 R10,R51/53,R65,R66,R67,S16,S2,S23,S24/25,S61,S62 R11,R36/38,R52/53,R67,S16,S23,S26,S27,S29,S39,S46,S60,S7,S9 R10,R65,R66,R67,S23,S36,S40,S51
Site: 0367 SME/ S	012 TPT SME/ STORAGE CAGE		
66-141-6293	BRAKLEEN (BULK)	Amber	R11,R40,R51,R53,S2,S23,S36/37,S61
Site: 0367 SIME/ S	012 TPT SME/ WASH POINT		
230956	SUPERCLENE	Amber	R36/38,S1/2,S13,S24/25,S36/37/39,S45
Site: 0367 SME/ S	6019 CW (CIVIL SQN)/ S017 BATTERY & CORROSIVE STOR	E	
26729 225588	BATTERIES - WET FILLED WITH ACID SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID	Amber Red	R33,R35,R50/53,R61,R62,S26,S30,S45,S53,S60,S61 R35,R41,S2,S26,S30,S37/39
Site: 0367 SME/ S	6019 CW (CIVIL SQN)/ S017 POL SHED		
66-093-5595	2.26 AEROSOL	Amber	R65,S23,S24,S62
66-141-6289	AEROSTART	Amber	R12,R65,S45,S53
66-128-9638 66-093-8337	ANTIBOIL ANTIFREEZE BP AUTOMOTIVE DIESEL FUEL	Amber	R22,S2,S26,S46
66-108-0884	BP REGULAR UNLEADED PETROL	Amber Amber	R40,R65,S2,S24,S36/37,S61,S62 R12,R38,R45,R46,R51/53,R63,R65,R67,S16,S2,S23,S24,S36/37,S45, 61,S62
66-017-9404	DRY FILM LUBRICANT (122L) SPRAY	Amber	R12,R36,R44,R67,S16,S23,S26,S27,S39,S40,S46,S51,S60,S7/9
4147	DY-MARK SPRAY & MARK AEROSOL FL COLOURS	Amber	R11,R22,R36/38,R44,R48/20,S16,S25,S29,S33
4441	FIRE PREP 1000	Amber	R40,S24/25,S26,S28,S37/39,S45
3828	GALMET RUSTPAINT AEROSOL (ALL COLOURS EXCEPT SILVER)	Amber	R12,R20,S16,S2,S23,S24/25,S29,S33

Hazardous Substance Register



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(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites Included)

Product Name Stock Number Colour Rating **Risk And Safety Phrases** 15443 HOUGHTO SAFE 273 (PRODUCT OBSOLETE) R22.S2 Amber HOUGHTO SAFE 273 (PRODUCT OBSOLETE) 15443 Amber R22,S2 WATER FINDING PASTE (PRODUCT OBSOLETE) 12-140-2212 Amber Site: 0367 SME/ S019 CW (CIVIL SQN)/ S020 SOILS LAB 17065 CALCIUM CARBONATE, POWDER, 99+%, A.C.S. REAGENT R37/38.R41.S26.S36/37/39 Green SODIUM CARBONATE ANHYDROUS (APS CHEMICALS) 2917 R36.S22.S24/25.S26.S37/39 Amber Site: 0367 SME/ S019 CW (CIVIL SQN)/ UNDERGROUND DIESEL TANK **BP AUTOMOTIVE DIESEL FUEL** 66-093-8337 Amber R40.R65.S2.S24.S36/37.S61.S62 Site: 0367 SME/ S119 IET SQN/ CE YARD/ BATTERY STORAGE **BATTERIES - WET FILLED WITH ACID** 66-065-0685 R33.R35.R50/53.R61.R62.S26.S30.S45.S53.S60.S61 Amber SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID 225588 Red R35, R41, S2, S26, S30, S37/39 Site: 0367 SME/ S119 IET SQN/ CE YARD/ CHEM SHED CALCIUM HYPOCHLORITE - HYDRATED (POOL RESOURCES) 66-027-6810 Red R31,R34,R41,R8,S2,S26,S43,S45 CITRIC ACID ANHYDROUS (CHEM-SUPPLY) 428 Amber R41,S26,S39 Site: 0367 SME/ S119 IET SQN/ CE YARD/ OPEN SHED 3047 CALCIUM CHLORIDE (APS CHEMICALS) Amber R22.R36.S22.S24/25,S26,S36/37/39,S45,S7 2419 SODIUM BISULPHATE (APS CHEMICALS) Amber R41,S26,S39 SODIUM HYPOCHLORITE (12.5% SOLUTION) 19282 Red R31.R34.S1/2.S26.S28.S37/39.S45.S50 Site: 0367 SME/ S180 GEW/ FLC DY-MARK SPRAY INK ALL COLOURS LEAD-FREE AEROSOL 66-064-4070 Amber R12.R22.R36/37/38.R44.R48/20/21.R60.R61.R66.R67.S45.S53 98-203-8527 MINERAL TURPENTINE Amber R10.R51/53.R65.R66.R67.S16.S2.S23.S24/25.S61.S62 3324 ROCOL EASYLINE ULTIMATE ALL COLOURS Amber R12,R67,S27,S44,S53,S7,S9 27190 SLS ETCH PRIMER (AEROSOL) Amber R12,S16 ULTRACOLOR AEROSOL LINE MARKER - COLOUR RANGE 3722 R12,R22,R36/38,R44,R48/20,R63,R67,S13,S16,S23,S26,S51,S53,S60, Amber S62, S7, S9 WD40 AEROSOL 66-093-5595 (2) Amber R10.R66.S16.S2.S23.S37.S51

Hazardous Substance Register



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Included)

 Stock Number
 Product Name
 Colour Rating
 Risk And Safety Phrases

 Site: 0367 SME/ S180 GEW/ STORE ROOM
 3440
 DURACELL ALKALINE BATTERIES
 Green
 R22,R34,R41,R51/53,S1,S25,S27,S35,S36,S40,S45,S57,S61

Dangerous Goods Listing



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(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites Included)

Stock Number	Product Name	Hazchem	UN No	DG Class	PKG	Quantity	Audit Date	Entry Date
Site: 0367	SME/ S001 SME HQ/ G01 OFFICES							
66-023-8581	LIQUID PAPER CORRECTION FLUID (20ML BOTTLE)	3Y	1993	3 - Flammable Liquids	ш	120 Millilitre	29 Sep 2011	
24698	MORTEIN FAST KNOCKDOWN FLY AND INSECT KILLER AEROSOL	2YE	1950	2.1 - Flammable Gases	N/A	200 Millilitre	28 Sep 2011	28 Sep 2010
Site: 0367	SME/ S001 SME HQ/ G18 REGISTRY							
26793	LIQUID PAPER CORRECTION PEN, LIQUID PAPER SQUEEZE PACK	3YE	2296	3 - Flammable Liquids	н	22 Millilitre	28 Sep 2011	28 Sep 2010
Site: 0367	SME/ S001 SME HQ/ G19 SHOP FRONT							
66-023-8581	LIQUID PAPER CORRECTION FLUID (20ML BOTTLE)	3Y	1993	3 - Flammable Liquids	111	20 Millilitre	28 Sep 2011	28 Sep 2010
Site: 0367	SME/ S001 SME HQ/ G22 STANDARDS							
228077	AIR-HORN REFILL CANISTER	2TE	1956	2.2 - Non-Flammable, Non-Toxic Gases	N/A	380 Millilitre	28 Sep 2011	28 Sep 2010
Site: 0367	SME/ S006 SEW/ WAB/ POL SHED							
66-108-0884	BP REGULAR UNLEADED PETROL	3YE	1203	3 - Flammable Liquids	н	1000 Litre	06 Oct 2011	06 Oct 2010
Site: 0367	SME/ S011 CW (TRADE TRAINING)/ GAS CAGE							
226670	ACETYLENE	2SE	1001	2.1 - Flammable Gases	N/A	10 D Cylinder 10L	06 Oct 2011	06 Oct 2010
226670	ACETYLENE	2SE	1001	2.1 - Flammable Gases	N/A	5 E Cylinder 23L	06 Oct 2011	06 Oct 2010
Site: 0367	SME/ S011 CW (TRADE TRAINING)/ PAINT BOO	TH						
4636	MIROCAT PC 3240	3[Y]E	1263	3 - Flammable Liquids	н	20 Litre	01 Oct 2011	01 Oct 2010
Site: 0367	SME/ S011 CW (TRADE TRAINING)/ Q STORE							
227351	PASLODE IMPULSE FUEL CELL	2WE	3478	2.1 - Flammable Gases	N/A	115 Units	01 Oct 2011	01 Oct 2010
Site: 0367	SME/ S012 TPT SME/ BATTERY CAGE							
225588	SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID	2R	2796	8 - Corrosive Substances	н	50 Litre	20 Sep 2011	20 Sep 2010

Dangerous Goods Listing



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(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites

Stock Number	Product Name	Hazchem	UN No	DG Class	PKG	Quantity	Audit Date	Entry Date
Site: 0367 S	ME/ S012 TPT SME/ CLEANING LOCKER 1					1.0		
222181 66-152-2728	CRC 5045 SO EASY MORTEIN ENERGY BALL FLY KILLER AEROSOL	2Y 2Y	1950 1950	2.1 - Flammable Gases 2.1 - Flammable Gases	N/A N/A	28800 Grams 1500 Grams	22 Sep 2011 22 Sep 2011	22 Sep 2010 22 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ CLEANING LOCKER 2							
66-100-4753 98-203-8527 3469 230996	METHYLATED SPIRITS MINERAL TURPENTINE PLUMBWELD PVC CEMENT N BLUE TURTLE WAX COLOUR MAGIC POLISH (PRODUCT OBSOLETE)	2YE 3Y 3YE 3(Y]	1170 1300 1993 1993	3 - Flammable Liquids 3 - Flammable Liquids 3 - Flammable Liquids 3 - Flammable Liquids		12 Litre 4 Litre 500 Millilitre 479 Grams	22 Sep 2011 22 Sep 2011 22 Sep 2011 22 Sep 2011	22 Sep 2010 22 Sep 2010
	ME/ S012 TPT SME/ FLC 1	91.1	1000				LL COP LOTT	
66-093-5595	2.26 AEROSOL	2Y	1950	2.2 - Non-Flammable, Non-Toxic Gases	N/A	22500 Grams	22 Sep 2011	22 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ FLC 2							
01-194-3457 66-102-4439 26837 6030	3M HI-STRENGTH SPRAY ADHESIVE 90 (AEROSOL) CASTROL CHAIN OIL (AEROSOL) CRC 5073 HOT SHOT (AEROSOL) DURA-GARD	2Y 2YE 2Y 2Y	1950 1950 1950 1950	2.1 - Flammable Gases 2.1 - Flammable Gases 2.1 - Flammable Gases 2.1 - Flammable Gases	N/A N/A N/A	500 Grams 1250 Grams 2400 Grams 354 Grams	22 Sep 2011 22 Sep 2011 22 Sep 2011 22 Sep 2011	22 Sep 2010 22 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ FLC 3							
66-148-1737	ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS	3Y	1263	3 - Flammable Liquids	ш	40000 Grams	22 Sep 2011	22 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ FLC 4							
66-033-5534 66-102-4439 66-151-5756 222181	AEROSTART CASTROL CHAIN OIL (AEROSOL) CO CONTACT CLEANER (AEROSOL) (PRE JUNE 2010) CRC 5045 SO EASY	2Y 2YE 2Y 2Y	1950 1950 1950 1950	2.1 - Flammable Gases 2.1 - Flammable Gases 2.1 - Flammable Gases 2.1 - Flammable Gases	N/A N/A N/A	800 Grams 1500 Grams 2100 Grams 4800 Grams	23 Sep 2011 23 Sep 2011 23 Sep 2011 23 Sep 2011	23 Sep 2010
66-017-9404 66-152-2728 2911	DRY FILM LUBRICANT (122L) SPRAY MORTEIN ENERGY BALL FLY KILLER AEROSOL POWER LUBE WITH TEFLON	2YE 2Y 2Y 2Y	1950 1950 1950	2.1 - Flammable Gases 2.1 - Flammable Gases 2.1 - Flammable Gases 2.1 - Flammable Gases	N/A N/A	30000 Grams 500 Grams 900 Grams	23 Sep 2011 23 Sep 2011 23 Sep 2011 23 Sep 2011	23 Sep 2010 23 Sep 2010 23 Sep 2010 23 Sep 2010
2113	ROCOL WIRE ROPE SPRAY	2YE	1950	2.1 - Flammable Gases	N/A	3600 Grams		23 Sep 2010

Dangerous Goods Listing



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(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites

Included)

Stock Number	Product Name	Hazchem	UN No	DG Class	PKG	Quantity	Audit Date	Entry Date
Site: 0367 S	ME/ S012 TPT SME/ FLC 5	and a second						1.77
66-148-1737	ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS	3Y	1263	3 - Flammable Liquids	ш	60000 Grams	22 Sep 2011	22 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ FLC 6							
4468	ZINC PHOSPHATE PRIMER	3YE	1263	3 - Flammable Liquids	Ш	40000 Grams	21 Sep 2011	21 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ GAS CAGE							
17880 17880	LIQUID PETROLEUM GAS (LPG) LIQUID PETROLEUM GAS (LPG)	2WE 2WE	1965 1965	2.1 - Flammable Gases 2.1 - Flammable Gases	N/A N/A	16 Kilogram 18 Kilogram		22 Sep 2010 22 Sep 2010
Site: 0367 S	ME/ S012 TPT SME/ POL SHED							
23124 98-203-8527 2352 27001	METHYLATED SPIRITS 100% MINERAL TURPENTINE MOLYBOND 122L DRY FILM LUBRICANT WD-40 BULK LIQUID	2YE 3Y 3YE 3Y	1170 1300 1993 1268	3 - Flammable Liquids 3 - Flammable Liquids 3 - Flammable Liquids 3 - Flammable Liquids	= = =	24 Litre 16 Litre 5000 Millilitre 20 Litre	22 Sep 2011 22 Sep 2011	22 Sep 2010 22 Sep 2010 22 Sep 2010 22 Sep 2010
	ME/ S012 TPT SME/ STORAGE CAGE	51	1200	5 - Hammable Liquids	in	20 110	22 060 2011	22 360 2010
66-141-6293	BRAKLEEN (BULK)	3WE	1992	3 - Flammable Liquids/6.1 - Toxic Substances	н	40 Litre	23 Sep 2011	23 Sep 2010
Site: 0367 S	ME/ S019 CW (CIVIL SQN)/ LPG CAGE							
³⁹⁴⁶ Site: 0367 S	COMMERCIAL PROPANE (ORIGIN ENERGY) ME/ S019 CW (CIVIL SQN)/ LPG TANK	2YE	1978	2.1 - Flammable Gases	N/A	90 Kilogram	01 Oct 2011	01 Oct 2010
3946	COMMERCIAL PROPANE (ORIGIN ENERGY)	2YE	1978	2.1 - Flammable Gases	N/A	200 Kilogram	01 Oct 2011	01 Oct 2010
Site: 0367 S	ME/ S019 CW (CIVIL SQN)/ S017 BATTERY &	CORROS	IVE ST	ORE				
26729 225588	BATTERIES - WET FILLED WITH ACID SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID	2W 2R	2794 2796	8 - Corrosive Substances 8 - Corrosive Substances	III 11	10 Units 60 Litre	01 Oct 2011 01 Oct 2011	01 Oct 2010 01 Oct 2010
Site: 0367 S	ME/ S019 CW (CIVIL SQN)/ S017 POL SHED							
66-093-5595	2.26 AEROSOL	2Y	1950	2.2 - Non-Flammable, Non-Toxic Gases	N/A	36000 Grams	30 Sep 2011	30 Sep 2010
66-141-6289	AEROSTART	2Y	1950	2.1 - Flammable Gases	N/A	10.8 Kilogram	30 Sep 2011	30 Sep 2010

Department of Defence; User - SMERW

Dangerous Goods Listing



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(Site Name: AUSTRALIA/ NSW/ 0367 MOOREBANK AREA/ 0367/S STEELE BARRACKS/ 0367 SME, Child Sites

Stock Number	Product Name	Hazchem	UN No	DG Class	PKG	Quantity	Audit Date	Entry Date
66-108-0884	BP REGULAR UNLEADED PETROL	3YE	1203	3 - Flammable Liquids		1600 Litre	30 Sep 2011	30 Sep 2010
66-017-9404	DRY FILM LUBRICANT (122L) SPRAY	2YE	1950	2.1 - Flammable Gases	N/A	21600 Grams	30 Sep 2011	30 Sep 2010
4147	DY-MARK SPRAY & MARK AEROSOL FL COLOURS	2YE	1950	2.1 - Flammable Gases	N/A	35000 Grams	30 Sep 2011	30 Sep 2010
3828	GALMET RUSTPAINT AEROSOL (ALL COLOURS EXCEPT SILVER)	2YE	1950	2.1 - Flammable Gases	N/A	13500 Grams	30 Sep 2011	30 Sep 2010
Site: 0367	SME/ S119 IET SQN/ CE YARD/ BATTERY STO	RAGE						
66-065-0685	BATTERIES - WET FILLED WITH ACID	2W	2794	8 - Corrosive Substances	111	2 Units	06 Oct 2011	06 Oct 2010
225588	SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID	2R	2796	8 - Corrosive Substances	п	10 Litre	06 Oct 2011	06 Oct 2010
Site: 0367	SME/ S119 IET SQN/ CE YARD/ CHEM SHED							
66-027-6810	CALCIUM HYPOCHLORITE - HYDRATED (POOL RESOURCES)	2W	2880	5.1 - Oxidising Substances	н	420 Litre	06 Oct 2011	06 Oct 2010
Site: 0367	SME/ S119 IET SQN/ CE YARD/ GAS CAGE							
3946	COMMERCIAL PROPANE (ORIGIN ENERGY)	2YE	1978	2.1 - Flammable Gases	N/A	50 Kilogram	06 Oct 2011	06 Oct 2010
Site: 0367	SME/ S119 IET SQN/ CE YARD/ OPEN SHED							
2419	SODIUM BISULPHATE (APS CHEMICALS)	2X	3260	8 - Corrosive Substances		400 Litre	06 Oct 2011	06 Oct 2010
19282	SODIUM HYPOCHLORITE (12.5% SOLUTION)	2X	1791	8 - Corrosive Substances		800 Litre	06 Oct 2011	06 Oct 2010
Site: 0367	SME/ S180 GEW/ FLC							
66-064-4070	DY-MARK SPRAY INK ALL COLOURS LEAD-FREE AEROSOL	2Y	1950	2.1 - Flammable Gases	N/A	3500 Grams	30 Sep 2011	30 Sep 2010
4605	METHYLATED SPIRT (GLENDALE) (C81)	2YE	1170	3 - Flammable Liquids	П	4 Litre	30 Sep 2011	30 Sep 2010
98-203-8527	MINERAL TURPENTINE	3Y	1300	3 - Flammable Liquids	111	4 Litre	30 Sep 2011	30 Sep 2010
3324	ROCOL EASYLINE ULTIMATE ALL COLOURS	2Y	1950	2.1 - Flammable Gases	N/A	5250 Millilitre	30 Sep 2011	30 Sep 2010
27190	SLS ETCH PRIMER (AEROSOL)	2Y	1950	2.1 - Flammable Gases	N/A	1750 Grams	30 Sep 2011	30 Sep 2010
3722	ULTRACOLOR AEROSOL LINE MARKER - COLOUR RANGE	2Y	1950	2.1 - Flammable Gases	N/A	14000 Grams	30 Sep 2011	30 Sep 2010
66-093-5595 (2)	WD40 AEROSOL	2YE	1950	2.1 - Flammable Gases	N/A	425 Grams	30 Sep 2011	30 Sep 2010
Site: 0367	SME/ S180 GEW/ STORE ROOM							
1752	FOAMCLENE	2Y	1950	2.2 - Non-Flammable, Non-Toxic Gases	N/A	700 Grams	30 Sep 2011	30 Sep 2010