

Prepared for  
NSW Land and Housing Corporation  
ABN: 24960729253

# Stage 1 Preliminary Site Investigation

Riverwood Estate State Significant Precinct

30-Mar-2022  
Riverwood Estate State Significant Precinct

## Stage 1 Preliminary Site Investigation

Riverwood Estate State Significant Precinct

Client: NSW Land and Housing Corporation

ABN: 24960729253

Prepared by

**AECOM Australia Pty Ltd**

Level 21, 420 George Street, Sydney NSW 2000, PO Box Q410, QVB Post Office NSW 1230, Australia

T +61 2 8008 1700 [www.aecom.com](http://www.aecom.com)

ABN 20 093 846 925

30-Mar-2022

Job No.: 60518855

AECOM in Australia and New Zealand is certified to ISO9001, ISO14001 and ISO45001.

## Quality Information

Document Stage 1 Preliminary Site Investigation


Ref 60518855

Date 30-Mar-2022

Prepared by Kate Holt

Reviewed by Debbie Midwinter and Orla Ferguson

### Revision History

Rev	Revision Date	Details	Authorised	
			Name/Position	Signature
A	22-Feb-2017	Draft for client review	Orla Ferguson	
0	28-Jun-2017	Final	Anthony Davis Associate Director	
1	09-Feb-2021	Updated Final Draft for review	Orla Ferguson Associate Director, Environment	
2	25-Feb-2021	Final	Orla Ferguson Associate Director, Environment	
3	30-Mar-2022	Revised Final	Orla Ferguson Associate Director, Environment	

## Table of Contents

Executive Summary	i
1.0 Introduction	1
1.1 Background	1
1.2 Objectives	1
1.3 Scope of Work	2
2.0 Study Area Identification	3
3.0 Site Condition and Surrounding Environment	4
3.1 Study Area Location	4
3.2 Study Area Land Use and Zoning	4
3.3 Surrounding Land Use	4
3.4 Topography and Drainage	6
3.5 Surface Water and Flood Potential	6
3.6 Regional Meteorology	6
3.7 Geology and Soils	6
3.7.1 Soil Landscapes	7
3.7.2 Erosion	7
3.7.3 Salinity	7
3.7.4 Acid Sulfate soils	8
3.8 Hydrogeology	8
3.9 Native Vegetation	8
4.0 Study Area Background	9
4.1 Council Records	9
4.2 Aerial Photographs	9
4.3 NSW EPA Records	11
4.3.1 Contaminated Land Record of Notices	11
4.3.2 NSW Contaminated Sites Notified to the EPA	11
4.3.3 Licensed Activities under the <i>POEO Act 1997</i>	12
4.3.4 PFAS	13
4.4 Waste Management	13
4.5 Business Directory Records	13
4.6 Unexploded Ordnance	14
5.0 Previous Environmental Investigations	15
5.1 Riverwood North	15
5.1.1 Stage 2 Environmental Site Assessment, 2011	15
5.1.2 Remediation Action Plan, 2011	17
5.1.3 Geotechnical Investigation, 2010	18
5.2 Salt Pan Creek Tip	18
5.2.1 Pollution Incident Response Management Plan, 2012	18
5.2.2 Annual Monitoring Report R12, 2016	19
5.2.3 Salt Pan Creek Landfill Closure Report, 2019	20
5.2.4 Salt Pan Creek Monitoring Data	21
6.0 Site Walkover	22
7.0 Conceptual Site Model	24
7.1 Sources	24
7.1.1 Potential Areas of Concern	24
7.1.2 Potential Contaminants of Concern	24
7.2 Receptors	25
7.3 Tabulated CSM and Risk Ranking	26
8.0 Conclusions and Recommendations	28
9.0 References	29
Appendix A	
Figures	A
Appendix B	
Lotsearch Reports	B

Appendix C	
Council Records	C
Appendix D	
NSW EPA Records	D
Appendix E	
Photographic Log	E
Appendix F	
UXO Search	F
Appendix G	
Salt Pan Creek Monitoring	G

## Executive Summary

AECOM Australia Pty Ltd (AECOM) was engaged by NSW Land and Housing Corporation's (LAHC) to undertake a Stage 1 Preliminary Site Investigation (PSI) of a 30 hectares (ha) area of land located in Riverwood, NSW, (hereafter referred to as the Study Area) to evaluate the contamination status of the Study Area.

The over-arching objective of the PSI is to respond to the Riverwood Estate State Significant Precinct Study Requirements, specifically Key Study Requirement 13 - Geotechnical and Contamination, which states:

- Provide an assessment of the local soil, outlining its suitability for the proposed uses with respect to erosion, salinity and acid sulfate soils.
- Provide an assessment of the proposed land uses in accordance with Section 9.1 Direction 2.6 Remediation of Contaminated Land.
- Conduct investigations to assess whether the development or future land use are impacted by contamination. If contamination is identified, identify the appropriate contamination remediation, mitigation and management measures that are required to safeguard the environment and people during construction and use of the proposed development. All investigations must be in accordance with guidelines made or approved by the EPA under section 105 of the Contaminated Land Management Act 1997 (CLM Act) and follow the processes outlined in State Environmental Planning Policy No 55 – Remediation of Land (SEPP 55) to assess the suitability of the land and any remediation required in relation to the proposed use.

The specific objectives of the targeted PSI are to:

- Identify whether potential contamination issues may be associated with the Study Area.
- Identify whether potential contamination at the Study Area is likely to present a risk to the proposed higher density residential redevelopment.
- Make recommendations to assist in making the site suitable for the proposed land use, which may be required to inform the proposed redevelopment of the Study Area.

To achieve the objectives, the following works were undertaken:

- Review of NSW Environment Protection Authority (EPA) records, historical aerial photographs, council records, published maps, previous reports pertaining to adjacent sites and other records.
- Development of a conceptual site model (CSM) to identify potential sources of contamination, receptors and pathways in which these receptors may be exposed to the identified contamination.
- Risk ranking of the potential pollutant linkages to illustrate the relative risk of each pathway, with the release of potential asbestos containing materials (ACM) in fill material and exposure by current/future residents considered to be of greatest risk.

Based on the review of available information and observations made during the site inspection, the contaminants of potential concern (CoPC) relating to current and historical activities in and surrounding the Study Area include, but may not be limited to: asbestos, heavy metals including lead, landfill gases, petroleum hydrocarbons, polycyclic aromatic hydrocarbons and volatile organic carbons. In addition, the report has assessed the soil conditions likely to be encountered within the Study Area and summarised the mapped erosion, salinity and acid sulfate soil constraints, which will require management as part of the proposed future development.

Based on the findings of the PSI, potential asbestos impacts have been classified as high risk and are considered to be the key constraint in the proposed higher density residential redevelopment of the Study Area. Thus, there is potential for the proposed development to require the remediation and/or management of asbestos impacted soils to make the land suitable for continued residential and recreational land uses.

Based on the findings of this Stage 1 PSI and CSM developed for the Study Area and with consideration to the requirements of SEPP 55 and the historical use of the adjoining Salt Pan Creek Reserve as a landfill, AECOM recommends the following:

- A Stage 2 Contamination Assessment to characterise the fill material across the Study Area and assess the presence and extent of potential asbestos impacts. Soil samples should be analysed for the CoPCs listed in **Section 7.1.2**. The gravimetric quantification of asbestos in soil will be required to assess against the HSLs for asbestos contamination in soil provided in the ASC NEPM (2013). ACM identified at Riverwood North was confined to fill material; therefore, delineating the extent of fill material across the Study Area is essential to ascertain the potential presence and extent of impacts. Testing for actual or potential acid sulfate soil (ASS/PASS) is recommended in the western portion of the Study Area (where Class 2 acid sulfate soils are mapped) so that it can be appropriately managed during construction (if present). Testing for salinity should be undertaken across the Study Area with a particular focus on those areas where water accumulation is high. In addition, a groundwater investigation is required to assess the potential for groundwater impacts.
- Considering the proximity of the Study Area to the landfill to its west, there is potential for landfill gas to be migrating onto the Study Area. This would be an issue where the potential for accumulation exists (e.g. in the basements of proposed buildings). Whilst historical landfill gas monitoring results remain low, it is recommended that screening for the presence of landfill gas occur as part of the proposed Stage 2 Contamination Assessment.
- Based on the results of the intrusive investigation, remediation and/or management of impacted areas may be required to mitigate risks associated with the identified impacts. In AECOM's experience, depending on the quantity of material encountered and the proposed development, it may be more cost effective for the impacted fill material to be retained on site and managed under an environmental management plan (EMP).
- Development of a construction EMP (CEMP) to manage risks to construction and maintenance workers from asbestos-impacted soils, other potential impacts associated with fill material, landfill gases and/or acid sulfate soils (depending on the outcome of the Stage 2 Contamination Assessment and remedial works) during the redevelopment of the Study Area. The CEMP would incorporate specific protocols to prevent erosion from occurring as a result of the disturbance of surface and sub-soils during construction.

## 1.0 Introduction

NSW Land and Housing Corporation (LAHC) has engaged AECOM to prepare a Stage 1 Preliminary Site Investigation to support the planning proposal for the Riverwood Estate State Significant Precinct (SSP). This report has been prepared to address the Study Requirements for the Riverwood Estate SSP as issued by the Department of Planning, Industry and Environment (DPIE) dated December 2020.

### 1.1 Background

The Riverwood Renewal project provides an opportunity to revitalise the Riverwood social housing estate into an integrated mixed-use precinct that will deliver a mix of social and private dwellings. The revitalisation of the Riverwood Estate offers the government the opportunity to replace aging social housing whilst significantly improving this area, and the quality of life for residents. A key objective of the project is to establish a new planning framework to facilitate renewal of the Riverwood Estate.

AECOM and a consultant team have worked with LAHC to prepare a master plan for the redevelopment of the site that will replace the existing dwellings, provide for additional private dwellings, new streets and parks and community uses. The proposed master plan consists of approximately 3,900 social and private dwellings, buildings ranging between 3 and 12 storeys and local open spaces – Roosevelt Park and Community Greenway and neighbourhood parks.

As part of the development of the master plan, a Stage 1 desktop contamination assessment has been recommended to evaluate the contamination status of the Study Area. It is noted that the Study Area encompasses land currently owned by LAHC and includes privately and Council owned land. The Study Area is located in a predominantly urban setting and is generally highly developed. The area comprises a mixture of medium and high density residential land uses, incorporating a number of known and historically contaminating activities. Due to the large size of the Study Area, a targeted Stage 1 assessment has been completed to selectively address and concentrate on the sites within the Study Area with the greatest potential for contamination which may impose future redevelopment constraints.

### 1.2 Objectives

The over-arching objective of the PSI is to respond to the Riverwood Estate State Significant Precinct Study Requirements, specifically Key Study Requirement 13 - Geotechnical and Contamination, which states:

- Provide an assessment of the local soil, outlining its suitability for the proposed uses with respect to erosion, salinity and acid sulfate soils.
- Provide an assessment of the proposed land uses in accordance with Section 9.1 Direction 2.6 Remediation of Contaminated Land.
- Conduct investigations to assess whether the development or future land use are impacted by contamination. If contamination is identified, identify the appropriate contamination remediation, mitigation and management measures that are required to safeguard the environment and people during construction and use of the proposed development. All investigations must be in accordance with guidelines made or approved by the EPA under section 105 of the *Contaminated Land Management Act 1997 (CLM Act)* and follow the processes outlined in State Environmental Planning Policy No 55 – Remediation of Land (SEPP 55) to assess the suitability of the land and any remediation required in relation to the proposed use.

The specific objectives of the targeted PSI are to:

- Identify whether potential contamination issues may be associated with the Study Area.
- Identify whether potential contamination at the Study Area is likely to present a risk to the proposed higher density residential redevelopment.
- Make recommendations to assist in making the site suitable for the proposed land use, which may be required to inform the proposed redevelopment of the Study Area.

### 1.3 Scope of Work

To achieve the objectives, the following scope of work was undertaken:

- Identification of known contaminated sites as detailed on the on the NSW Environment Protection Authority (EPA) list of NSW contaminated sites notified to EPA.
- Identification of properties which are listed on the NSW EPA Contaminated Land record of Notices.
- Source and review historical aerial photographs for the Study Area.
- Review published maps of the area to gain an understanding of surface and subsurface conditions (e.g. soil landscapes, geology, hydrogeology, salinity, erosion potential, acid sulfate, topography etc.).
- Search/review information readily available through the internet (e.g. historical parish maps, council records, registered groundwater bore database within identified areas of concern etc.).
- Review environmental reports provided by LAHC for the land adjacent to the north of the Study Area.

Investigative work was conducted with reference to relevant parts of the following guidelines:

- NSW DECC, 2009. *Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997* – used to determine potential significant risk of harm issues associated with the site, where required.
- NSW EPA, 2017. *Guidelines for the Site Auditor Scheme (3rd Edition)* – used to apply the NSW EPA decision processes for assessing and redevelopment of urban sites.
- NEPC, 2013. *National Environment Protection (Assessment of Site Contamination) Measure 1999, 2013 Amendment (herein referred to as the ASC NEPM [2013])* – considered throughout the investigation.
- NSW EPA, 2020. *Guidelines for Consultants Reporting on Contaminated Sites* – considered during the preparation of this report.

## 2.0 Study Area Identification

An overview of the Study Area identification details are provided in **Table 1** below. Further details on the location and zoning of the Study Area are provided in **Section 3.0**.

**Table 1 Study Area Identification**

Item	Description
Local Government Authority (LGA)	Canterbury-Bankstown (former Canterbury)
County	Cumberland
Parish	St George
Area	Approximately 30 Hectares (Ha)
Elevation	Ranges from 4 – 27 m AHD
Distance from Sydney CBD	Approximately 18 km
Current Land Zoning	Canterbury Local Environmental Plan (LEP) 2012: predominantly Zone R4 Residential (high density), with an area of Zone R3 Residential (medium density) in the west and an area of Zone RE1 (public recreation) to the west.
Current Land Use	Residential (medium and high density) and open space
Proposed Land Use	Residential (medium and high density) and open space
Study Area Location	LAHC / AHO Assets presented in <b>Figure F1</b> and <b>Figure 1, Appendix A</b> .
Study Area Layout	Please see the figure below and <b>Figure 2, Appendix A</b> .

**Notes:** AHD: Australian Height Datum  
CBD: Central Business District  
Distance: Google Earth Pro

**Figure F1 Riverwood Study Area (Source: LAHC)**



## 3.0 Site Condition and Surrounding Environment

### 3.1 Study Area Location

The Riverwood State Significant Precinct (the Study Area) is an area of 30ha and is located within the Canterbury Bankstown LGA. The Study Area contains a large area of government-owned land (16.7ha owned by LAHC) and is of state importance in achieving key government policy objectives, particularly renewing social housing and increasing housing supply.

The Study Area is bound by Belmore Road to the east, the M5 Motorway to the north, Salt Pan Reserve to the west and Killara Avenue to the south. The majority site is located within walking distance, approximately 5-15 minutes, from the Riverwood Station. The site is also serviced by local bus route (944) providing connections to key centres including Bankstown, Hurstville, Mortdale, Roselands and Campsie.

The Study Area is well-serviced by existing social infrastructure, including existing parks and community facilities, including Riverwood Library and Knowledge Centre at Washington Park and Riverwood Community Centre close to Belmore Road. Riverwood Public School is located immediately adjacent to the study area, and Hannan's Road Public School is within proximity to the Study Area.

The Study Area comprises 1,019 social housing dwellings (1,017 owned by LAHC and 2 by the Aboriginal Housing Office [AHO]), 60 private dwellings and land owned by Canterbury Bankstown Council. A diverse range of dwelling types, including three-storey walk-up apartment buildings, studio apartments, free-standing cottages and nine-storey apartment buildings is located within the Study Area.

### 3.2 Study Area Land Use and Zoning

The zoning of the Study Area is predominantly Zone R4 Residential (high density) under the Canterbury Local Environmental Plan 2012, with the exception of the western portion of the Study Area (south of Michigan Road and west of Roosevelt Avenue), which is Zone R3 Residential (medium density). Some open space portions of land, primarily in the western portion of the Study Area are also zoned RE1 Public Recreation. The site zoning map is provided in the Lotsearch report in **Appendix B**.

The Study Area currently consists of a diverse range of dwelling types including three storey walk-up apartment buildings, studio apartments, free standing cottages and nine-storey apartment buildings. The review of the historical land uses within the Study Area identified that the land was used as a military hospital during World War II, prior to utilisation primarily for residential purposes as part of the Riverwood Estate.

The Lotsearch report indicated that an easement is located within the Study Area on Truman Avenue; however, the type of easement was undefined.

### 3.3 Surrounding Land Use

Land uses surrounding the Study Area are described below:

- North: Riverwood North residential development, Kame Street Reserve, M5 Motorway and residential properties beyond.
- East: residential properties, a lake and Riverwood Community Centre.
- South: residential properties, Riverwood Park, Riverwood Public School (preschool through year 6) and railway tracks beyond.
- West: Riverwood Public School and Salt Pan Reserve (formerly Salt Pan Creek Tip) followed by Salt Pan Creek.

Salt Pan Creek Tip, located adjacent to the west of the Study Area, previously held an Environmental Protection Licence (EPL) for the following scheduled activities:

- Waste processing (non-thermal treatment). Leachate from WH Wagner Oval, Ashbury, classified as liquid waste in accordance with Waste Classification Guidelines, up to a total amount of 30,000 tonnes per year.
- Waste disposal (application to land). Waste collected by or on behalf of local councils from street sweepings, as defined in Schedule 1 from the *POEO Act 1997*, up to a total amount of 5000 tonnes per year.

The EPL (10636) was surrendered by the council on 15 March 2016. Environmental reports specific to Salt Pan Creek Tip have been reviewed as part of **Section 5.0**.

### 3.4 Topography and Drainage

The Study Area is elevated at approximately 4 – 27 m AHD, and generally slopes to the west towards Salt Pan Creek. The most elevated point is the south-eastern corner, at 27 m AHD, with the most low-lying point the south-western corner at 4 m AHD.

The surrounding landscape is gently undulating. A raised mound approximately 7 to 8 m in height is located to the west of the Study Area and is the result of filling activities at the former Salt Pan Creek Tip.

### 3.5 Surface Water and Flood Potential

Salt Pan Creek is located approximately 300 m west of the Study Area, running in a north to south direction. Salt Pan Creek is surrounded by wetlands along its eastern and western edges; however, the majority of the wetland on the eastern side of the creek near the Study Area was removed in the development of Salt Pan Creek Tip. The Lotsearch report indicates that the majority of this wetland is saline, with areas of freshwater wetland and forested wetland. Salt Pan Creek meets Georges River approximately 3 km south of the Study Area.

A lake associated with Salt Pan Reserve lies approximately 95 m north-east of the Study Area, understood to be used as a wetland area and bird habitat (JBS, 2010a).

### 3.6 Regional Meteorology

According to the Bureau of Meteorology Station ([www.bom.gov.au](http://www.bom.gov.au)) at Canterbury (Canterbury Racecourse), station 066194 (data from 1995 to 2020), which is located approximately 7.7 km from the Study Area, the Study Area could expect to experience:

- Moderate to warm summers, with a mean maximum temperature of 28.0 °C in January
- Mild to cool winters, with a mean minimum temperature of 5.7 °C in July
- Average annual rainfall of approximately 954.7 mm, which is generally highest from February through to June.

### 3.7 Geology and Soils

The Study Area is located within the Sydney Basin, which in turn forms part of the Cumberland Plain. The regional geology consists of Triassic Hawkesbury Sandstone, comprising predominantly of cross-bedded, medium to coarse quartzose sandstone with shale lenses.

According to the 1:100,000 Sydney Region Geological Map from NSW Department of Industry, Resources & Energy (see Lotsearch Report, **Appendix B**), the Study Area is underlain by Triassic Ashfield Shale of the Wianamatta Group. The Ashfield Shale is described as black to dark grey shale and laminate. The westernmost portion of the Study Area was described as Quaternary alluvium, comprising silty to peaty quartz sand, silt and clay with ferruginous and humic cementation in places and common shell layers.

Salt Pan Creek Tip is noted to the west of the Study Area as man-made fill comprising dredged estuarine sand and mud, demolition rubble, industrial and household waste, overlying the alluvial sediments described above. Due to the previous and current land uses at the Study Area, fill material is generally expected to be present onsite overlying natural soils.

Soils within the Study Area are predominantly classified as Acid Sulfate Soil (ASS), Soil Class 5 (indicating no known risk of acid sulfate soils). A small portion of the Study Area along the western boundary (limited to a portion of two AHO properties on Kentucky Road) appears to fall within Soil Class 2 (see Lotsearch Report, **Appendix B**). It is noted that Soil Class 2 indicates that works below natural ground surface or works which may lower the water table present an environmental risk.

### 3.7.1 Soil Landscapes

Review of the Soil Landscapes of the Sydney 1:100000 Sheet (Chapman and Murphy, 1989) identifies the presence of three soil landscapes within the Study Area. The distribution of each soil landscape is shown on the soil landscape figure in Appendix B. A description of the soil type for each associated soil landscape is provided as follows:

- Blacktown (bt) soil landscape: Encompassing much of the eastern portion of the Study Area, the Blacktown soil landscape is characterised by shallow to moderately deep (<100 cm) Red and Brown Podzolic Soils on crests, upper slopes and well drained areas and deep (150-300 cm) Yellow Podzolic Soils and Soloths on lower slopes and in areas of poor drainage. Limitations to urban development include the potential for moderately reactive, highly plastic subsoil, low soil fertility and poor soil drainage.
- Birrong (bg) soil landscape: Encompassing the western portion of the Study Area, the Birrong soil landscape is characterised by deep (>250 cm) Yellow Podzolic Soils and Yellow Solodic Soils on older alluvial terraces and deep (>250 cm) Solodic Soils and Yellow Solonetzic Soil on existing floodplain areas. Limitations to urban development include the potential for localised flooding, high soil erosion hazard, saline subsoil, seasonal waterlogging and very low soil fertility.
- Lucas heights (lh) soil landscape: Encompassing a small portion of land adjacent to the southern boundary of the Study Area, the Lucas Heights soil landscape is characterised by moderately deep (50-150 cm), hardsetting Yellow Podzolic Soils and Yellow Soloths and Yellow Earths present on the outer edges of crests. Limitations to urban development include the potential for stony soil, low soil fertility and low available water capacity.

### 3.7.2 Erosion

The three soil landscapes identified within the Study Area and their associated erosion potential are summarised as follows:

Blacktown (bt) soil landscape: Erodibility potential is moderate. Topsoils can be hardsetting and they generally have high fine sand and silt content and a high to moderate organic matter content. Subsoils are generally low in organic matter. The erosion hazard for non-concentrated overland flow is generally moderate but can range from low to very high. Calculated soil loss during the first 12 months of urban development ranges up to 73 t/ha for topsoil and 68t/ha for exposed subsoil. Soil erosion hazard for concentrated flows is considered moderate to high.

Birrong (bg) soil landscape: Erodibility potential ranges from low where stable soil aggregates bound together with organic matter and clays to highly erodible where the soil comprises low organic matter and a high proportion of fine sand and silt. Orange mottled silty clays, brown mottled clays and light grey mottled clays of the Birrong soil landscape can be highly dispersible and are highly to extremely erodible in this condition. The erosion hazard for non-concentrated overflow is generally low to moderate. Calculated soil loss during the first 12 months of urban development ranges up to 11 t/ha of topsoil and 28 t/ha for exposed subsoil.

Lucas heights (lh) soil landscape: Erodibility potential ranges from moderate in loose, fine sand grained material with moderate amounts of organic material to very high in areas with fine sand and some silt grains in a clay matrix. The erosion hazard for non-concentrated overland flow is generally moderate but ranges from slight to extreme. Calculated soil loss during the first 12 months of urban development ranges up to 103 t/ha for topsoil and 93 t/ha for exposed subsoil.

### 3.7.3 Salinity

Review of the Department of Infrastructure, Planning and Natural Resources (DIPNR) Salinity Potential in Western Sydney map indicates the Study Area is located within an area of moderate to high salinity potential. Soils with a moderate potential for salinity comprise those areas situated on Wianamatta Group Shales and Tertiary Alluvial Terraces. Saline areas may occur in this zone which have not been identified or mapped within the Blacktown and Lucas Heights Soil Landscapes. Locations within the Study Area with a high salinity potential would occur within the Birrong and Blacktown Soil Landscape where water accumulation is high.

#### 3.7.4 Acid Sulfate soils

Soils within the Study Area are predominantly classified as Acid Sulfate Soil (ASS), Soil Class 5 (indicating no known risk of acid sulfate soils). A small portion of the Study Area towards the western boundary (limited to a portion of two AHO properties on Kentucky Road) appears to fall within Soil Class 2 (see Lotsearch Report, **Appendix B**). It is noted that Soil Class 2 indicates that works below natural ground surface or works which may lower the water table present an environmental risk

### 3.8 Hydrogeology

The Study Area is underlain by Hawkesbury Sandstone, the main regional aquifer across Sydney. The Hawkesbury Sandstone is a dual porosity aquifer of high productivity and generally good groundwater quality.

The Hydrogeology Map of Australia (see Lotsearch Report, **Appendix B**) described the local aquifers underlying the Study Area as porous, extensive aquifers of low to moderate productivity.

The NSW Office Water website ([www.water.nsw.gov.au](http://www.water.nsw.gov.au)) and Lotsearch Report indicate that there are no registered groundwater bores within approximately 500 m of the Study Area

From a review of historical environmental investigations and monitoring at Salt Pan Creek Tip, it is known that shallow groundwater underlies the Study Area. During the July 2019 monitoring round at the former landfill (see **Section 5.2.2**), Coffey (2019) reported a standing water level of 0.6 to 0.88 m below top of casing (btoc) on the western boundary of the Study Area.

There are three groundwater dependent ecosystems (GDEs) within 1 km of the Study Area high potential 195 m, moderate potential 280 m and low potential 781 m from the Study Area (see Lotsearch Report, **Appendix B**). There are five terrestrial inflow dependent ecosystems (IDEs) within 1 km of the Study Area. These GDEs and IDEs are up and down-gradient of the Study Area.

### 3.9 Native Vegetation

There are two native vegetation ecological communities within the Study Area:

- Castlereagh / Cooks River Ironbark Forest = threatened ecological community NSW with a very high disturbance index; and
- Urban Exotic / Native = Not assessed.

## 4.0 Study Area Background

The background to the Study Area, including history, council records and EPA records are summarised in the following sections. AECOM engaged Lotsearch to provide an Environmental Risk and Planning Report for the Study Area and surrounds (hereafter referred to as the Lotsearch Report). The Lotsearch report, dated 12 September 2016 and updated 26 November 2020, was reviewed by AECOM for relevant background to the Study Area, and is presented in **Appendix B**.

### 4.1 Council Records

The history of the Study Area, sourced from the Canterbury Commons ([www.canterburycommons.net](http://www.canterburycommons.net)) through Canterbury City Council, indicates that Herne Bay Railway Station (now Riverwood) opened on 21 December 1939. Robert Levingston owned 140 acres in the area bounded by Canterbury Road, Belmore Road, Salt Pan Creek and the East Hills Railway Line, encompassing the Study Area and surrounds. The property was used for residential purposes and as a golf course.

In 1943, the property was taken over by the Australian Government in order to build the United States (US) Army's 118 General Hospital. The hospital was the largest military hospital in Australia and comprised 490 barracks- type buildings. The US Army vacated the hospital in 1945 and the site was taken over by the Royal Navy for continued use as a hospital and other uses by the Australian Army.

After World War II, the Study Area and surrounds were acquired by the NSW Housing Commission and the former hospital buildings became the Herne Bay housing estate, used to ease the post-war housing shortage. In the 1950s, the buildings were replaced by medium and high density housing residences.

The council records are presented in **Appendix C**.

### 4.2 Aerial Photographs

Historical aerial photographs for the Study Area and surrounds were reviewed to identify former land uses that may have the potential to be sources of contamination. The photographs were obtained from the NSW Department of Land and Property Management Authority (DLPMA) and are presented in the Lotsearch report provided in **Appendix B**, except the 2020 aerial photograph, which was obtained from Google Earth. Details of the aerial photographs are detailed below.

**Table 2 Historical Aerial Photograph Review**

Photograph Details	Description of the Study Area	Description of Land Surrounding the Study Area
1943 (black and white)	A large number of structures cover the majority of the Study Area and extend offsite to the north-east, consistent with the description of the 118 General Hospital above. A portion of land in the west of the property is undeveloped with limited tree cover.	The existing railway corridor has been constructed 300 m to the south-east of the Study Area. The area to the west appears to be a wetland, extending from approximately 40 m from the boundary of the Study Area. Residential dwellings and small cultivated fields are located to the north and south.
1955 (black and white)	The Study Area appears similar to the 1943 photograph, however fewer trees are observed and additional buildings have been constructed in the west.	Increased residential development is visible surrounding the Study Area, largely consistent with the layout of the current residential dwellings. Commercial properties appear to line Belmore Road south-east of the Study Area.
1961 (black and white)	The Study Area appears similar to the 1943 and 1955 photographs, with the exception of the demolition of a building located centrally within the Study Area	A channel is visible 130 m north-east of the Study Area, extending from the east and curving northwards across the photograph.

Photograph Details	Description of the Study Area	Description of Land Surrounding the Study Area
1965 (black and white)	Hospital structures have been demolished. The current road network appears to be under construction. Single-storey residential dwellings with garden plots have been constructed west on the Study Area and multi-storey residential dwellings have been constructed on the eastern portion of the Study Area.	Hospital structures offsite to the north-east have been demolished. Riverwood Public School has been constructed adjacent to the south. Warehouses are present from 150 m north. Earthworks appear to be present from 200 m north-west. Increased development of commercial properties visible along Belmore Road south-east of the Study Area.
1970 (black and white)	Increased development within the Study Area, with the construction of the current residential dwellings along the northern and southern boundary. Buildings are also present in the south-western corner of the Study Area, which is currently vacant.	Earthworks are visible adjacent to the west of the Study Area, with parts of the previously existing wetland reclaimed and levelled. This is consistent with the use of the land as a tip from 1966 (see <b>Section 5.2</b> ).
1982 (colour)	The remainder of the buildings currently present within the Study Area have been constructed.	Residential dwellings have been constructed to the north-east of the Study Area. Swimming pools visible for several of the freestanding dwellings in the west of the Study Area. A large mound is evident on the southern half of the landfill to the west of the Study Area. Additional warehouses have been added to the commercial/industrial estate located approximately 160 m north of the Study Area.
1991 (colour)	The Study Area appears similar to the 1982 photograph.	The northern half of the landfill to the west appears to be covered in grassy vegetation, whilst earthworks appear to continue on the southern half. Earthworks are visible to the north of the site, likely preparatory works for the construction of the M5 highway. Two baseball diamonds are located 180 m north-west of the Study Area.
2003 (colour)	The Study Area appears similar to the 1982 and 1991 photographs.	The M5 motorway has been constructed north of the Study Area. The channel (described in relation to the 1961 photo) appears to have been culverted under the motorway. The landfill to the west of the Study Area appears to have been capped. Earthworks have been undertaken 180 m north-west of the Study Area to amend the two baseball diamonds into three, with one of the old diamonds appearing not to be in use.

Photograph Details	Description of the Study Area	Description of Land Surrounding the Study Area
2009 (colour)	An U-shaped residential building south-east on the Study Area has been replaced by a larger J-shaped building.	The photograph depicts a lake located 150 m north-east of the Study Area, likely formed through the damming of the channel which previously ran through this area. Additional tanks are associated with the leachate treatment plant 100 m north-west of the Study Area.
2014 (colour)	Three multi-storey residential buildings previously located in the south-western corner of the Study Area have been demolished. The area has been converted to a park.	Earthworks and the construction of high-rise properties is visible adjacent to the north of the Study Area.
2020 (colour)	The Study Area appears similar to the 2014 photograph.	Eight high-rise buildings have been constructed adjacent to the north of the Study Area including the Riverwood Library and Knowledge Centre and the Lakeview Apartments.

## 4.3 NSW EPA Records

### 4.3.1 Contaminated Land Record of Notices

A review of the NSW EPA website ([www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)) and the Lotsearch report was undertaken on 24 November 2020 to evaluate if the EPA has issued a regulatory notice in relation to the site under Section 60 of the *Contaminated Land Management Act 1997 (CLM Act 1997)*. No listed properties were identified within the Study Area; however, the following current sites that are regulated under the *CLM Act 1997* were listed within 1 km of the Study Area:

- Exide (former battery manufacturing and recycling), 55 Bryant Street, Padstow (482 m west of the Study Area). Declaration of Significantly Contaminated Land 16 March 2010. Approved voluntary management proposal 23 June 2016. Site Audit Statement issued 27 September 2016. The SAS concluded that the site was suitable for commercial/industrial land use subject to an Environmental Management Plan (AECOM, 3 September 2016)
- Punchbowl Laundry (chemical industry), 42-44 Belmore Road, Punchbowl (943 m north-east of the Study Area). Declaration of Significantly Contaminated Land 6 March 2019. Approved voluntary management proposal 7 May 2019 amended 13 January 2020.

No former notices were listed within 1 km of the Study Area. A copy of the search is provided in the Lotsearch report in **Appendix B**. Due to the distance of the above two businesses from the Study Area, the contamination at these sites is not considered relevant to this investigation.

### 4.3.2 NSW Contaminated Sites Notified to the EPA

A review of the NSW EPA website ([www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)) was undertaken on 24 November 2020 to evaluate if, under Section 60 of the *CLM Act 1997*, any properties within the boundaries of Study Area or the surrounding areas had been notified as contaminated to NSW EPA. No notified sites were identified within the Study Area; however, the following notified sites were identified within 1 km of the Study Area:

- Exide (former battery manufacturing and recycling), 55 Bryant Street, Padstow (482 m west of the Study Area). Contamination currently regulated under CLM Act.
- 7-Eleven Riverwood (service station), 30 Bonds Road, Riverwood (360 m south-east of the Study Area). Regulation under CLM Act not required.
- Foseco Australia (chemical industry), 7 Stuart Street, Padstow (641 m west of the Study Area). Regulation under CLM Act not required.

- Selleys/Dulux (chemical industry), 1-29 Gow Street, Padstow (686 m north-west of the Study Area). Regulation under CLM Act not required.
- Punchbowl Laundry (chemical industry), 42-44 Belmore Road (943 m north-east of the Study Area). Contamination currently regulated under CLM Act.
- Caltex Service Station, 115 Fairford Road, Padstow (968 m west of the Study Area). Regulation under CLM Act not required.

A copy of the Contaminated Land Search is provided in **Appendix D**.

Due to the distance of these businesses from the Study Area and their location (majority are on the opposite side of Salt Pan Creek [discussed further in **Section 3.5**] and the remainder are not considered to be hydraulically up-gradient), the contamination nature of these sites is not considered relevant to this investigation.

#### 4.3.3 Licensed Activities under the *POEO Act 1997*

The Lotsearch Report listed seven businesses with licensed activities under the *Protection of the Environment Operations Act 1997 (POEO Act 1997)* within 1 km of the Study Area:

- Sydney Trains: railway systems activities (268 m south of the Study Area).
- Foseco (7 Stuart Street, Padstow): dangerous goods production, general chemical storage, non-thermal treatment of hazardous and other waste, waste storage – hazardous, restricted solid, liquid, clinical and related waste and asbestos waste (641 m west of the Study Area).
- Cleanaway (12-14 Stuart Street, Padstow): non-thermal treatment of hazardous and other waste (648 m west of the Study Area).
- Dulux Australia (15 Gow Street, Padstow): general chemical storage and chemical storage waste generation (686 m north-west of the Study Area).
- Selleys (1 Gow Street, Padstow): chemical production waste generation, paints/polishes/adhesives production (746 m north-west of the Study Area).
- Austral Tiles (62 Belmore Road, Punchbowl): ceramics production, ceramic waste generation (777 m north-east of the Study Area).

Former licensed activities under the *POEO Act 1997* within 1 km of the Study Area include:

- Salt Pan Creek Tip (On-site): non-thermal treatment of general waste and waste disposal by application to land surrendered 22 May 2000.
- Sydney Weed & Pest Management, Luhrman Environment Management and Robert Orchard (On-site): application of herbicides to waterways surrendered September and November 2000.
- Acciona Infrastructure (7 m north of the Study Area): M5 east widening road construction surrendered August 2012.
- Pollution Laboratory Services (191 m north of the Study Area): Non-thermal treatment of hazardous and other waste, waste storage – hazardous, restricted solid, liquid, clinical and related waste and asbestos waste surrendered May 2000.
- CPB Contractors (255 m south of the Study Area): Railway systems activities surrendered September 2008.
- Exide Australia (482 m west of the Study Area): Battery production, chemical production waste generation, contaminated soil treatment, recovery of hazardous and other waste surrendered May 2000.
- Resource Recycling (584 m north-west of the Study Area): Hazardous, industrial or group A waste generation or storage surrendered April 2000.
- Donaghy's Sarlon (669 m north-west of the Study Area): Hazardous, industrial or group A waste generation or storage surrendered August 2000.

- Trivac Metals (908 m north-west of the Study Area): Hazardous, industrial or group A waste generation or storage surrendered September 2002.
- Perfection Plate Holdings (970 m north-east of the Study Area): Metal waste generation, metal coating surrendered November 2000.
- Apex Rubber Recycling (970 m north-east of the Study Area): Recovery of waste tyres, waste storage – waste tyres revoked February 2015.

Delicensed activities under the *POEO Act 1997*, (still regulated by the NSW EPA) within 1 km of the Study Area include:

- G.A. & L. Harrington (743 m west of the Study Area): Hazardous, industrial or group A waste generation or storage.
- Finished Products (817 m north-west of the Study Area): Hazardous, industrial or group A waste generation or storage.

A full list of licensed, delicensed and formerly licensed activities under the *POEO Act 1997* is provided in the Lotsearch report, attached as **Appendix B**.

Due to the distance of these businesses from the Study Area and their location (majority are on the opposite side of Salt Pan Creek and the remainder are not considered to be up-gradient), the contamination nature of these sites is not considered relevant to this investigation.

#### 4.3.4 PFAS

There were no sites within the Study Area or within 1 km of the Study Area that are part of either the NSW EPA or Department of Defence PFAS Investigation Program or the Department of Defence or Airservices Australia National PFAS Management Program.

## 4.4 Waste Management

The following waste management facilities are located within the Study Area or within 1 km of the Study Area:

- Canterbury City Council – Salt Pan Creek Tip – Kentucky Road, Riverwood (On-Site). Multipurpose – operational.
- Transpacific Industries/Cleanaway – Cleanaway – 12 Stuart Street, Padstow (648 m west of the Study Area). Multipurpose – operational.

## 4.5 Business Directory Records

The Lotsearch Report lists businesses in the 1950, 1970 and 1991 Universal Business Directories within 150 m of the Study Area. The only record for an onsite business was a greengrocer in the south-eastern corner of the Study Area in the 1970 records. The following offsite businesses are considered relevant to this Stage 1 assessment:

- Ampol Riverwood service station (10 m south-east), 1991.
- Advance Sheet Metal Co., welders, sheet metal workers, plumbers' supplies and roofing material manufacturers and/or distributors (Essex Road, Riverwood – exact location not known), 1950 and 1970.
- Melody Service Station, motor garage and spare parts dealer (Belmore Road, Riverwood – exact location not known), 1970.
- Riverwood Driveway, service station and wheel repairers (Belmore Road, Riverwood – exact location not known), 1970.
- Riverwood Service Station, service station and motor engine reconditioners (20 m south), 1970
- Browning, G, dry cleaners (Belmore Road, Herne Bay [former name of Riverwood] – exact location not known), 1950.

- Herne Bay service station (35 m south), 1950.

Essex Road no longer exists and therefore its location is uncertain. An historical map from Robinson's Street Directory 1955 (attached with Lotsearch report in **Appendix B**) indicates that Essex Road formerly ran through the middle of the former Herne Bay Housing Settlement in an east-west direction between Salt Pan Creek and Belmore Road, and was therefore located onsite. Previous historical street directories from 1921, 1926 and the 1940s (exact year unknown) depict a road in the same location with the name Fulvia Road. It is noted, however, that the location of this road is inconsistent with aerial photographs from the time. For conservatism, it has been assumed that Essex Road formerly ran through the Study Area, and thus, Advance Sheet Metal Co was located onsite.

The full list of Business Directory Records is provided in the Lotsearch report, attached as **Appendix B**. Given the known proximity of two (potentially four) historical service stations to the Study Area, some of which are likely to be up-gradient, there is potential for petroleum impacts to have migrated onto the Study Area in the past. It is noted, however, that petroleum impacts biodegrade over time, and therefore service station records from 1950 and 1970 are not considered further.

#### 4.6 Unexploded Ordnance

A search of the Australian Department of Defence Unexploded Ordnance (UXO) Contamination database was conducted on 24 November 2020 to evaluate whether the Study Area or surrounding areas were listed. There were no records of UXO contamination in the Canterbury-Bankstown Local Government Area. A copy of the UXO search map is shown in **Appendix F**.

## 5.0 Previous Environmental Investigations

AECOM is unaware of and has not been provided with any previous environmental investigations relevant to the condition of soil and groundwater which have been completed within the Study Area.

Previous investigations have been undertaken on land adjacent to the Study Area, however, some of which share a similar history to the Site and may therefore be associated with similar sources of contamination. These investigations may additionally be relevant as these areas may potentially be offsite sources of contamination to the Study Area.

Previous environmental investigations are available for Riverwood North and Salt Pan Creek Tip. Available reports have been summarised in **Sections 5.1** and **5.2**, respectively.

### 5.1 Riverwood North

Riverwood North lies directly north and east of the Study Area, as presented on **Figure 2, Appendix A**. Riverwood North is currently undergoing redevelopment, and these construction works were preceded by environmental investigations and remediation works to allow the land to be suitable for the proposed development.

The following complete reports were made available to AECOM by LAHC in October 2016 and February 2017:

- JBS Environmental, 2011a. *Stage 2 Environmental Site Assessment, Riverwood North Residential Renewal Project*. January 2011.
- JBS Environmental, 2011b. *Remediation Action Plan, Riverwood North Residential Renewal Project, Riverwood, NSW*. January 2011.
- Jeffery and Katauskas, 2010. *Geotechnical Investigation for Riverwood North Renewal Project at Washington Avenue, Riverwood, NSW*. November 2010.

These reports are summarised in **Sections 5.1.1** to **5.1.3**.

#### 5.1.1 Stage 2 Environmental Site Assessment, 2011

JBS Environmental completed a Stage 2 Environmental Site Assessment (Stage 2 ESA) to assess whether the Riverwood North site was suitable for continued residential and recreational use, or whether remediation/management would be necessary to make it suitable.

The Stage 2 ESA included an overview of historical investigations at Riverwood North, including the following reports:

- Douglas Partners, 2008. *Preliminary Geotechnical, Contamination and Hazardous Building Materials Assessment, Urban Renewal Project Riverwood North*.
- JBS Environmental, 2010. *Stage 1 Environmental Site Assessment*.

These reports have been summarised by AECOM in **Table 3** below to provide context for potential contamination associated with the Study Area.

Table 3 Summary of Previous Investigations at Riverwood North.

Investigation	Scope	Results
Douglas Partners, 2008. Preliminary Geotechnical, Contamination and Hazardous Building Materials Assessment  (Preliminary Investigation)	The limited program of soil and groundwater sampling comprised the excavation of 15 test pits, installation of two groundwater monitoring wells and landfill gas sampling.	<p>The soil profile was described as approximately 1 m of silty clay fill underlain by natural silty clay and shaley clay. Anthropogenic inclusions included ACM, glass, trace metal and brick fragments, slag and porcelain pipe. Groundwater was encountered within 2 m of the ground surface within the natural clay within the eastern portion of Riverwood North, whilst groundwater was not encountered when drilling to 5 m below ground surface (bgs) on the western portion.</p> <p>The following results were provided:</p> <ul style="list-style-type: none"> <li>• Soil analytical results indicated that TPH C<sub>6</sub>-C<sub>9</sub>, BTEX, OCPs, PCBs and VOCs were not detected above the limit of reporting (LOR). Heavy metals, TPH C<sub>10</sub>-C<sub>36</sub> and PAHs were detected above the LOR, but below the adopted assessment criteria (not provided).</li> <li>• ACM fragments were observed in fill material in 8 of 15 test pits excavated and confirmed by the laboratory. Asbestos was not identified in soil samples corresponding with ACM fragments.</li> <li>• The single groundwater sample reported nickel and zinc above the adopted assessment criteria (freshwater groundwater investigation level).</li> <li>• Landfill gas monitoring indicated that methane concentrations were generally low or undetectable.</li> </ul> <p>It was concluded that <i>“the site can be made suitable for the proposed site use subject to the appropriate remediation and/or on site management of asbestos contaminated soils.”</i></p>
JBS, 2010. Stage 1 Environmental Site Assessment  (Stage 1 ESA)	A review of historical documentation to identify potential areas of environmental concern and chemicals of concern, a detailed site inspection and preparation of the Stage 1 ESA report.	<p>The Stage 1 ESA described the previous use of the remediation area as agricultural prior to 1942, then a wartime hospital and emergency housing until 1946, when it was acquired by the Housing Commission of NSW for the development of public housing. This is considered to be consistent with the history of the Study Area.</p> <p>The Stage 1 ESA considered it likely that the former hospital buildings contained asbestos, and therefore the fill material at Riverwood North was potentially impacted with asbestos from the demolished buildings. Potential for additional shallow imported fill was also identified. A Stage 2 intrusive investigation was recommended to assess the suitability of the land for continued residential and recreational use.</p>

**Table Notes:** ACM – Asbestos Containing Material  
TPH – total petroleum hydrocarbons  
PAH – polycyclic aromatic hydrocarbons

BTEX – benzene, toluene, ethylbenzene and xylenes  
OCP – organochlorine pesticides  
OPP – organophosphorus pesticides  
PCB – polychlorinated biphenyls  
VOC – volatile organic compounds

The Stage 2 ESA comprised the excavation of 87 test pits on an approximate 15 m grid across accessible areas of the Riverwood North area. Fill material was encountered across Riverwood North, with depths ranging from 0.3 m to 1.2 metres below ground surface (m bgs). The fill material consisted of brown silty clay with inclusions of brick, wood, glass, igneous gravels slag, concrete and ACM fragments.

The following results were provided:

- Soil analytical results indicated that TPH, PAH, OCPs, OPPs and PCBs were not detected above the LOR and/or the adopted assessment criteria (not provided).
- Reported soil analytical results for heavy metals were not above the adopted criteria for a residential land use with minimal access to soil or recreational open space land use. A lead concentration of 390 mg/kg was detected in shallow soil in one test pit in the centre of the Riverwood North area.
- ACM fragments were observed in the fill material in 79 of 87 test pits. ACM fragments ranged from 0.03 kg to 7.6 kg in mass and the eight test pits without visible ACM were not confined to a certain area or depth.
- Bonded asbestos concentrations in soil samples were reported above the adopted criterion (0.2% v/v) in 18 of the 87 test pits.
- Friable asbestos (referred to as 'respirable fibres') were not detected above the LOR of 0.1 g/kg. The laboratory noted that loose asbestos fibres were reported in seven test pits below the reporting limit of 0.1 g/kg, however the fibres were considered to not be fine enough to be respirable. JBS reported that test pit locations reporting the presence of loose asbestos fibres in soil were generally located in the central portion of the Riverwood North site.

It was concluded that the land could be made suitable for continued residential and recreational use subject to the remediation of ACM impacted fill materials.

#### **5.1.2 Remediation Action Plan, 2011**

JBS prepared a Remediation Action Plan (RAP) for Riverwood North to address widespread filling including ACM as fibre cement sheeting in order to make the land suitable for continued residential and recreational land uses.

The RAP adopted criteria in line with the (at the time) draft ASC NEPM (2011), which are consistent with the current ASC NEPM (2013) criteria of 0.01% v/v bonded asbestos for a residential land use. The following remedial criteria were adopted:

- No visible ACM on the ground surface and surface soils (within 0.1 m bgs).
- 0.01% v/v bonded ACM in soils beneath 0.1 m bgs.
- No reporting of un-bonded asbestos at any depth.

The following remediation scope was proposed in the RAP:

- Excavation and offsite disposal of surface soils (to 0.1 m bgs) across the entire extent of Riverwood North and validation of the surface.
- Excavation and offsite disposal of 7.5 x 7.5 m grid squares around the seven locations where free asbestos fibres were detected (until natural material is reached) followed by validation.
- Excavation of material at remaining 18 locations where ACM impacted sub-surface soils were identified, followed by hand picking of ACM fragments and validation.

- Import of validated material to construct a >0.3 m thick capping layer over the residual ACM impacted surface soils, or alternatively reinstatement of the top 0.1 m using handpicked and validated soils as being absent of visible ACM.

The RAP also proposed pre-demolition hazardous materials building surveys to be undertaken and intrusive investigation across the building footprint areas prior to the completion of remedial works.

AECOM has not been provided with a validation report, a report detailing the remedial works undertaken, nor a hazardous materials building survey, and are therefore unable to verify whether the above works were completed as specified.

### 5.1.3 Geotechnical Investigation, 2010

Jeffery and Katauskas (2010) completed a geotechnical investigation which comprised drilling of 20 boreholes for geotechnical assessment to inform the proposed development. Observations and results relevant to this Stage 1 PSI include the following:

- Boreholes encountered fill material comprising silty clay of low to medium plasticity or silty sand in places and ranged in depth from less than 0.1 m bgs to 1.6 m bgs, containing varying amounts of gravels, traces of slag, roots and root fibres. Fill material was underlain by residual silty clay followed by extremely weathered shale (from 1.6 to 4.5 m bgs) and weathered sandstone bedrock (from 6.1 m bgs).
- Groundwater seepage was encountered at depths ranging from 2.85 m to 7.6 m bgs, both located in the north-eastern portion of Riverwood North. The standing water level was measured at depths ranging between 2.9 m bgs (in the east) and 7.5 m bgs (in the north-west) on or shortly after the completion of drilling.
- Soil pH tests indicated that the soils were acidic; with pH values of 4.9 for the silty clay fill material and 4.3 to 5.4 for the natural silty clay.

## 5.2 Salt Pan Creek Tip

Salt Pan Creek Tip lies adjacent to the Study Area to the west, as presented on **Figure 2, Appendix A**. Due to its proximity to the Study Area and historical use, Salt Pan Creek Tip may potentially be a source of contamination to the Study Area. Therefore, the following two environmental reports for Salt Pan Creek Tip, accessed from the Canterbury City Council website ([www.canterbury.nsw.gov.au](http://www.canterbury.nsw.gov.au)) have been reviewed below to provide background on the current status of the landfill:

- Otta International, August 2012. Salt Pan Creek Reserve Canterbury City Council Pollution Incident Response Management Plan.
- Earth2Water, 2016. *Annual Monitoring Report R12 August 2016 Salt Pan Creek Landfill (EPL 10636)*.
- Coffey, 2019. Salt Pan Creek Landfill Closure – Report on Groundwater Review 12 Months Following Closure Work Kentucky Road, Riverwood NSW.

### 5.2.1 Pollution Incident Response Management Plan, 2012

Otta International (2012) reported that the tip was formerly a low lying wetland covered with mangroves which was converted to a municipal landfill by Canterbury City Council from 1966 to 1992. An estimated 1.3 million m<sup>3</sup> of waste was disposed on the tip, creating a raised fill mound rising approximately 7 to 8 m above the surrounding terrain. The landfill has reportedly been rehabilitated, covered in soil and grass and converted to open parkland with public access.

Four leachate pumping stations were reported to be located around the perimeter of the disused landfill, with the collected leachate pumped to a leachate treatment plant at the north-eastern corner of former tip. Leachate was treated chemically and biologically in a batch reactor, with treated leachate discharged to the Sydney Water sewer. The plant comprised three leachate influent storage tanks, one aerated leachate treatment tank, two treated effluent holding tanks and one caustic soda storage tank, and was fully automated. The caustic soda (i.e. 48% sodium hydroxide) was contained in a 10,000 litre (L) tank within a concrete bund. On average, 15,000-20,000 L of effluent from Wagner Oval (to the north) was historically received daily for treatment.

A stormwater collection system was reported to run from the north-east to the south-west along the eastern side of the former landfill. Underground stormwater pipes originating from Kentucky Road (within the Study Area) extend under the landfill and flow south and then west to Salt Pan Creek. An earthen drainage line runs along the northern boundary of the landfill, discharging to Salt Pan Creek. Stormwater from the elevated section of the landfill flows towards a gravel perimeter road which extends around the base of the mound, with surface water on the western portion of the mound draining to Salt Pan Creek. Stormwater from the eastern portion of the landfill and surrounding properties (likely including the western portion of the Study Area) drain to an underground stormwater collection system.

### 5.2.2 Annual Monitoring Report R12, 2016

The Annual Monitoring Report R12 August 2016 is the penultimate quarterly and annual reports prepared by Earth2Water (E2W) following ongoing monitoring at Salt Pan Creek Tip to comply with its Environmental Protection Licence (EPL 10636). E2W reported that the Council was (as of August 2016) in the process of investigating the capping material and implementing a rehabilitation plan as part of landfill closure works.

Groundwater, leachate and gas sampling undertaken as part of the ongoing monitoring program and their reported results are summarised below:

- Landfill gas was measured in eight groundwater monitoring wells on 2 August 2016 prior to water sampling. Methane was reported above the detection limit in three locations; with readings up to 6.2% volume(v)/v. Flow rates were not reported. As the three wells exceeded 1.25% v/v methane, readings were reported to the Council and NSW EPA. The three wells are located along the western and southern boundary of the former landfill.
- Eight groundwater wells were gauged. Measured groundwater levels were as shallow as 1.50 m bgs (i.e. reported measured surface water level [SWL] was 2.05 mtoc and stick-up was 0.55 m) in a well on the western boundary of the Study Area (GW-1, located offsite adjacent to 40 Kentucky Road). Wells along the western boundary of the former landfill were reported to be subject to tidal influences.
- Eight groundwater wells were sampled using a bailer. Exceedances of ANZECC 2000 - The Australian and New Zealand Water Quality Guidelines for Fresh and Marine Water Quality 2000 (ANZECC 2000) criteria (water quality and aesthetics, fresh- and marine water, 95% protection) for ammonia and naphthalene were reported in the August 2016 monitoring round, with ammonia concentrations reported over two orders of magnitude above the criterion in one location (GW-5). Reported hydrocarbons were largely below the LOR and did not adopted screening criteria.
- Quarterly groundwater data was provided from December 2013 to August 2016. Reported ammonia and naphthalene concentrations have remained relatively consistent over time. Dissolved metals were reported in May 2014 and May 2015, with concentrations exceeding the ANZECC 2000 criteria (aluminium, cobalt, copper, manganese and zinc), however samples have not been scheduled for metals analyses in more recent monitoring rounds.
- A leachate sample was collected from the leachate tank. Reported concentrations of ammonia exceeded the ANZECC 2000 criterion.
- Leachate seepage was observed on the boundary of former landfill with the Study Area (at the football field west of the Study Area), with ponding in the grass and around services and drains. Ponded water was sampled and reported concentrations of ammonia and faecal coliforms exceeding the ANZECC 2000 criteria.
- Soil gas probe testing for methane was undertaken at 30 locations (to 0.5 m bgs) on 2 August 2016 along the eastern boundary of the former landfill (largely between the landfill and the Study Area). No exceedances of the adopted 1.25% methane threshold were reported.

AECOM notes that the reported groundwater hydrocarbon concentrations were assessed against health screening levels (HSLs) appropriate for a commercial/industrial land use, whereas the current land use at Salt Pan Reserve is recreational/open space and the adjacent offsite land use is residential. A preliminary review of the reported data against HSLs appropriate for these land uses indicated that reported concentrations were below the HSLs. It is noted, however, that groundwater HSLs only apply where depth to groundwater exceeds 2 m bgs as HSLs are only protective of vapour intrusion pathways

(not direct contact with groundwater, which may occur in areas where groundwater is closer to the surface).

E2W recommended further landfill leachate assessment along the eastern boundary of the former landfill (i.e. western boundary of the Study Area) to evaluate whether uncontrolled seepage is migrating offsite through the groundwater or buried infrastructure. Temporary fencing and hay bales had been erected near this location to limit exposure by the general public to the leachate seeps. It was recommended that maintenance workers wear appropriate PPE and implement control measures to work within confined spaces due to potentially explosive conditions arising from out-gassing of methane from landfill leachate accumulating around buried pits and trenches.

### 5.2.3 Salt Pan Creek Landfill Closure Report, 2019

The Salt Pan Creek Landfill Closure Report - Report on Groundwater review 12 months following closure work, September 2019 is the most recent of annual groundwater monitoring at Salt Pan Creek Tip, and was conducted to comply with the EPL for the closure of the Salt Pan Creek landfill.

Capping earthworks were completed to satisfy NSW EPA's variation of Surrender Notice (Notice 1463139, dated 26 March 2018) and groundwater monitoring was required within 12 months of completion of the capping earthworks to satisfy condition of Approval of the Surrender of the Licence no 10636. The Coffey (2019) report presented the data for groundwater monitoring, with no sampling of leachate or landfill gas conducted.

A summary of the groundwater and surface water monitoring results are presented below:

- Sixteen groundwater wells were gauged and sampled (GW1, GW1S (new), GW2, GW3, GW3S (new), GW4, GW5, GW5A, GW6, GW6S (new), GW7, GW8D (new), GW8S (new), GW9S (new), GW10S (new) and GW11S (new)) in addition to three surface water samples (sample ID - UP, MID and DN).
- Measured groundwater levels were as shallow as 0.6 m btoC in a well on the western boundary of the Study Area (GW-1, located offsite adjacent to 40 Kentucky Road).
- The sampling methodology was not provided by Coffey for review. The groundwater and surface water samples were analysed for pH, total dissolved solids (TSS), alkalinity, metals (aluminium, arsenic, barium, cadmium, chromium, copper, cobalt, lead, magnesium, manganese, mercury, and zinc) chloride, fluoride, benzene, toluene, ethylbenzene, xylene (BTEX), total recoverable hydrocarbons (TRHs), polycyclic aromatic hydrocarbons (PAHs), organochlorine and organophosphorus pesticides and total phenolics. The data was compared with historical data and key parameters such as pH, ammonia and TDS were reported as generally consistent with the exception of ammonia in GW4 and TDS in GW1 and GW7.
- The surface water samples were not compared with historical data, however Coffey reported that concentrations of ammonia, TDS and pH was generally consistent between up-gradient, mid-gradient and down-gradient locations. The ammonia concentrations in all surface water sample locations was below the ANZG (2019)'s default guideline value (DGV) of 0.91 mg/L for protection of marine water (95% species protection), and considered a low likelihood of unacceptable impacts on the aquatic ecosystem in Salt Pan Creek. The concentrations are also below the ANZG (2019)'s default guideline value (DGV) of 0.9 mg/L for ammonia for protection of fresh water (95% species protection).
- Coffey (2019) considered the capping works at the landfill would reduce localised surface water ponding and infiltration in areas where capping was completed. Coffey recommended future ongoing groundwater monitoring (existing and newly installed wells) to be carried out in accordance Condition 2(r) of the Approval of the Surrender of Licence No. 10636, with the monitoring network reviewed annually based on contaminant trends or changes in land use. It was also recommended that the capping be inspected and grass cover maintained. In addition, the effectiveness of the leachate system should be reviewed to improve the performance of the system, with the understanding of the implementation of Masterplan for the wider Salt Pan Creek Reserve comprising Salt Pan Creek landfill and other open space areas to address leachate and stormwater management measures.

- Exceedances of ANZG (2019)'s default guideline value (DGV) for freshwater (95% species protection) for Aluminium, Cobalt, Cadmium, Manganese and Zinc were noted for the four monitoring wells (GW-1 to GW-4) on the western side of the landfill, which is consistent with historical monitoring. Concentrations of ammonia in these four monitoring wells were below the DGV with the exception of GW-4 which reported a concentration of 1.4 mg/L. Exceedances of Naphthalene reported in 2016, were not assessed in this monitoring period. Reported hydrocarbons were largely below the LOR and did not exceed the adopted screening criteria.

#### **5.2.4 Salt Pan Creek Monitoring Data**

Monitoring data from March and September 2018 were reported for leachate (Pump-3), with all data (pH, EC, redox, chloride, sulphate, ammonia, calcium, magnesium, sodium, potassium, BTEXN and TRH) consistent with 2017. The location of Pump-3 is not known or how the leachate samples were collected.

Data for subsurface soil gas was also provided for 2017 (September & December), 2018 (March & September), 2019 (July, September and December) and 2020 (March, June and December). The sampling methodology is not known however sample locations were identified in the Coffey (2019) report. Sample locations in proximity to the Riverwood Primary School showed exceedances of the NSW EPA Guidelines for the Assessment and Management of Sites Impacted by Hazardous Ground Gases, 2012 for hazardous gas carbon dioxide greater than 1.5%v/v at PG-1 (December 19 and June 2020), PG-2 (December 2019), PG-3 (June and December 2020) and PG-4 (July and December 2019 and June and December 2020), which indicate that the landfill may not be stable and further investigation should be conducted in proximity to this area.

## 6.0 Site Walkover

AECOM conducted a walkover of the Study Area and adjacent areas on 31 January 2017. A photographic log has been provided in **Appendix E**.

Key stakeholders were notified in advance; including tenants of LAHC owned social housing, private landholders (approximately 60 privately owned residential properties) and non-residential properties including a childcare centre.

The Study Area is located in a predominantly urban setting and is generally highly developed. The Study Area was found to comprise a mixture of low density (**Photograph 1**), medium density (**Photograph 2**) and high density dwellings (**Photograph 3**). The buildings were of brick construction and ranged from one to nine stories in height. Whilst ACM did not appear to be present on the exterior of these buildings, a hazardous building materials survey was not undertaken, and the buildings were not entered during the walkover so its presence cannot be excluded. The properties were surrounded by concrete car parks, asphalt driveways and grassy landscaped areas and linked by a network of asphalt roads.

A childcare centre with an outdoor play area was located on the corner of Belmore Road North and Roosevelt Avenue, on the south-eastern portion of the Study Area (**Photograph 4**).

Concrete slabs were observed west of Virginia Place adjacent to the high-rise dwellings. These slabs appear to be remnants of former structures in this location (**Photograph 5**).

There was evidence of cut and fill across the Study Area to level the land for property and road construction, however this was more clearly evident in the area of the high rise dwellings bordered by Washington Avenue, Virginia Place and Roosevelt Avenue. The level of the road along Roosevelt Avenue and Virginia Place was up to 2 m higher than the ground surrounding the high rise buildings and surrounding car park, with the car park cut into the original slope (**Photograph 6**). The cut was further evident from the presence of retaining walls between Roosevelt Avenue and these properties. Mounds were additionally observed throughout the landscaped area surrounding these high-rise properties (**Photograph 7** and **Photograph 1**).

Vegetation in the Study Area typically appeared to be healthy (**Photograph 8**), however compacted and eroded soils were observed throughout the Study Area and adjacent playing fields and parks. Erosion was observed along the nature strips in the Study Area, with exposed soils below the level of the footpaths and service manholes (**Photograph 9**). Whilst rubbish was noted on the surface of these nature strips, no buried waste was observed to be exposed at the surface.

The footpath between Michigan Road and Wyoming Place was observed to be cracked and uneven, and in some areas not in physical contact with the underlying soils (**Photograph 10** and **Photograph 11**). It is unclear whether this is attributable to a poor state of repair or whether this is due to the subsidence of the underlying soils.

During the walkover, no significant staining indicative of surface spills or contamination was observed, and no unusual odours were noted.

The following land uses were observed adjacent to the Study Area (i.e. offsite) (also depicted on **Figure 2**):

- Salt Pan Reserve was observed to the west of the Study Area. The reserve includes the former Salt Pan Tip, which is visible as a large grass-covered mound approximately 8 m in height (**Photograph 12**). A gravel footpath surrounded the mound. A playing field is located within the reserve, between the large mound and the residential dwellings along Kentucky Road (**Photograph 13**).
- Riverwood Public School was located on Union Street, adjacent to the Study Area to the west (**Photograph 14**).
- Low-density residential properties were located directly adjacent to the Study Area along Kentucky Road, Union St, Hunter Street, Killara Avenue and Belmore North Road. In addition, the high-rise Riverwood North development is located adjacent to the Study Area to the north-east (**Photograph 15**).

- Commercial establishments were observed along Belmore Road North to the south-east of the Study Area (**Photograph 16**).

## 7.0 Conceptual Site Model

A conceptual site model (CSM) presents information about potential contamination sources, receptors and potential exposure pathways between the identified sources and receptors. As detailed in the ASC NEPM (NEPC, 2013), the development of a CSM is a key component of contaminated site assessments and provides the framework for identifying how potential receptors may be exposed to contamination from previous or current site sources. The sources, pathways and receptors identified for the Study Area are discussed and tabulated below.

### 7.1 Sources

#### 7.1.1 Potential Areas of Concern

Based on the review of available historical information and observations made during the site inspection, the following potentially contaminated areas were identified:

- Imported fill materials – fill materials of unknown origin may have been imported to the Study Area.
- Hazardous building materials – a number of buildings were previously present across the Study Area, and their demolition may have resulted in the spread of hazardous building materials across the surface.
- Salt Pan Creek Tip – the former landfill is located to the west of the Study Area. The landfill has been associated with the generation of landfill gases (mainly carbon dioxide), groundwater impacts and leachate seepage. Groundwater impacts are likely to migrate westwards towards the adjacent Salt Pan Creek and are therefore considered unlikely to impact the Study Area. Landfill gases in the vadose zone may migrate eastwards to the Study Area.
- Light industrial and commercial properties identified including former welders/sheet metal workers onsite and service stations and dry cleaners in the vicinity of the Study Area.
- Acid sulfate soils – there is potential for acid sulfate soils to be present along the western boundary of the Study Area due to its proximity to Salt Pan Creek.

#### 7.1.2 Potential Contaminants of Concern

Based on the review of available information and observations made during the site inspection, the contaminants of potential concern (CoPC) relating to current and historical activities in and surrounding the Study Area include, but may not be limited to, the following:

- Asbestos – there is potential for historical and current building materials to be constructed using ACM. ACM has historically been used since the 1920s, and then more widely in the post war years from 1945 to the end of the 1960s and is reported to be present in almost 20% of all housing stock (The Asbestos Network, 2008). Barracks-like structures were constructed within the Study Area in the 1940s as part of the military hospital, it is possible that the buildings and associated infrastructure were constructed using ACM. With the demolition of these buildings in the 1960s, it is possible that residual ACM may be present in the soils of the Study Area. ACM may also be present in fill materials imported to the Study Area. This is supported by the Stage 2 ESA completed at Riverwood North (JBS, 2011), located adjacent to the Study Area to the north, where ACM fragments were observed in fill material in 79 of 87 test pits (>90%). Given that similar structures have historically been located at the Study Area and Riverwood north, there is potential for these asbestos impacts to extend across the Study Area.
- Heavy metals including lead - may occur in fill originating from industrial sites. Common metals include arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc. Also, selected metals (lead, cadmium, chromium and zinc) may be sourced from the metal-based paints. There is also potential for buildings to have been treated with lead paint. In Australia, paints containing at much as 50% lead were used on the inside and outside of houses built before 1950, and paint containing more than 1% lead was still being used until the late 1960s. Lead paint may have been applied to and still exist on the interior and exterior walls of the current buildings, or may be present within the soil since re-development. Moreover, heavy metal impacts (aluminium, cobalt, cadmium, manganese and zinc) have historically been identified in groundwater to the west of the site (former Salt Pan Creek Tip).

- Landfill gases – methane, carbon dioxide, carbon monoxide and hydrogen sulphide. A former landfill, Salt Pan Creek Tip, is located adjacent to the Study Area, and will likely continue to be a source of landfill gases as the fill material biodegrades over time. It is additionally noted that the landfill was constructed on reclaimed wetland with mangroves, and highly organic swamp peats and mangrove muds are likely to remain below the fill material. These organic materials may decay slowly over many years and be an additional source of biogenic gases. The landfill has been recently capped with the EPL surrendered. Routine monitoring of the landfill has reported methane concentrations above the limit of reporting, with up to 6.2% v/v methane reported in August 2016. Recent monitoring (2019 and 2020) of subsurface soil gas wells has indicated elevated concentrations of carbon dioxide greater than 1.5% v/v in wells in proximity to the Riverwood Primary School. Under the *POEO Act 1997*, the NSW EPA is likely to require ongoing monitoring until the landfill is stable and non-polluting, with gas concentrations in perimeter wells <1% v/v CH<sub>4</sub> and <1.5% v/v CO<sub>2</sub>.
- Petroleum Hydrocarbons – can be found in emulsions, fuels, solvents and oils etc. Petroleum hydrocarbons are generally quantified by analytical laboratories as total recoverable hydrocarbons (TRH), and reported as four fractions of hydrocarbons grouped into ranges of volatility. Whilst petroleum hydrocarbons were not detected above the reporting limit at Riverwood North, service stations have historically been located on/near the Study Area.
- Polycyclic Aromatic Hydrocarbons (PAHs) – related to some petroleum hydrocarbon use, bitumen emulsion and lubricating oils. PAHs can also potentially be present in fill (dependant on the origin of the fill material). Whilst, PAHs have not been above the reporting limit at Riverwood North, fill material may potentially be present on the Study Area and therefore further assessment is required.
- Volatile Organic Compounds (VOCs) – related to various industrial processes, particularly where solvents are used and are associated with contamination from dry cleaning facilities.

## 7.2 Receptors

Based on the review of available information and observations made during the site inspection, the following potential receptors have been identified<sup>1</sup>:

- Current onsite residents
- Future onsite residents
- Onsite construction/ subsurface maintenance workers
- Salt Pan Creek

---

<sup>1</sup> Offsite human health receptors (e.g. offsite residents and school children) have not been considered as part of this CSM as the Study Area, in its current state and under the proposed development, is not considered to pose a risk to offsite receptors and it is assumed remediation and construction works will be managed in accordance with a construction environmental management plan (CEMP) to prevent the offsite migration of asbestos and other contaminants.

### 7.3 Tabulated CSM and Risk Ranking

Based on the review of the Study Area and sources and receptors discussed in **Section 7.1** and **7.2**, a tabulated CSM has been prepared to illustrate the relative risk of each source-pathway-receptor linkage identified for the Site. The qualitative risk ranking has been completed using a colour coding system, with green representing low risk, orange medium risk and red representing a high risk, as follows:

- Low risk – based on the available information, a complete pollutant linkage is considered to be unlikely.
- Medium risk - based on the available information, a complete pollutant linkage may potentially be present, however the likelihood and consequence is considered to be medium.
- High risk - based on the available information, a complete pollutant linkage is considered to be likely.

A discussion on the likelihood for potential pollutant linkages is provided for each source above, in **Section 7.1**.

**Table 4 CSM and Qualitative Risk Ranking of Potential Source-Pathway-Receptor Linkages Identified for the Study Area.**

Source	CoPC	Pathway	Receptor	Qualitative Risk Ranking
Imported fill	<ul style="list-style-type: none"> <li>Asbestos</li> <li>Heavy metals</li> <li>TRH, BTEX, PAH</li> </ul>	<ul style="list-style-type: none"> <li>Disturbance of soils</li> <li>Wind-blown dust (in unsealed areas)</li> </ul>	<ul style="list-style-type: none"> <li>Current onsite residents</li> <li>Future onsite residents</li> <li>Onsite construction/ subsurface maintenance workers</li> </ul>	Medium
		<ul style="list-style-type: none"> <li>Migration via groundwater</li> </ul>	<ul style="list-style-type: none"> <li>Salt Pan Creek</li> </ul>	Low
Hazardous building materials	Asbestos	<ul style="list-style-type: none"> <li>Disturbance of soils and release of fibres</li> </ul>	<ul style="list-style-type: none"> <li>Current onsite residents</li> <li>Future onsite residents</li> <li>Onsite construction/ subsurface maintenance workers</li> </ul>	High
	Lead	<ul style="list-style-type: none"> <li>Disturbance of soils</li> <li>Wind-blown dust (in unsealed areas)</li> </ul>	<ul style="list-style-type: none"> <li>Current onsite residents</li> <li>Future onsite residents</li> <li>Onsite construction/ subsurface maintenance workers</li> </ul>	Medium
		<ul style="list-style-type: none"> <li>Migration through groundwater</li> </ul>	<ul style="list-style-type: none"> <li>Salt Pan Creek</li> </ul>	Low

Source	CoPC	Pathway	Receptor	Qualitative Risk Ranking
Salt Pan Creek Tip (offsite)	<ul style="list-style-type: none"> <li>Landfill gases</li> </ul>	<ul style="list-style-type: none"> <li>Migration through sub-surface soils</li> <li>Migration along preferential pathways such as subsurface infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>Current onsite residents</li> <li>Future onsite residents</li> <li>Onsite construction/ subsurface maintenance workers</li> </ul>	Medium
	<ul style="list-style-type: none"> <li>Ammonia</li> <li>Sulfate</li> <li>Heavy metals</li> <li>TRH, BTEX, PAH, VOCs</li> </ul>	<ul style="list-style-type: none"> <li>Wind-blown dust</li> <li>Migration through groundwater</li> <li>Migration of volatiles through the vadose zone</li> <li>Leachate seepage to the ground surface</li> </ul>	<ul style="list-style-type: none"> <li>Current onsite residents</li> <li>Future onsite residents</li> <li>Onsite construction/ subsurface maintenance workers</li> <li>Building foundations</li> </ul>	Low
Light industrial and commercial properties (offsite)	<ul style="list-style-type: none"> <li>TRH, BTEX, PAH, VOCs</li> <li>Heavy metals</li> </ul>	<ul style="list-style-type: none"> <li>Migration through groundwater</li> </ul>	<ul style="list-style-type: none"> <li>Current onsite residents</li> <li>Future onsite residents</li> <li>Onsite construction/ subsurface maintenance workers</li> </ul>	Low
Acid sulfate soils	<ul style="list-style-type: none"> <li>Sulfuric acid</li> </ul>	<ul style="list-style-type: none"> <li>Disturbance of soils, resulting in exposure to oxygen</li> </ul>	<ul style="list-style-type: none"> <li>Onsite construction/ subsurface maintenance workers</li> <li>Building foundations</li> </ul>	Medium

## 8.0 Conclusions and Recommendations

As part of this Stage 1 PSI, AECOM has reviewed historical and current records pertaining to the Study Area and its surrounds and characterised the contamination status of the Study Area. The CSM (presented in **Section 7.0**) identifies potential sources of contamination, receptors and exposure pathways, and risk ranked these potential pollutant linkages to illustrate the relative risk of each pathway. In addition, the report has assessed the soil conditions likely to be encountered within the Study Area and summarised the mapped erosion, salinity and acid sulfate soil constraints, which will require management as part of the proposed future development.

Widespread filling including ACM as fibre cement sheeting has previously been identified at Riverwood North, located adjacent to the Study Area to the north. The source of this ACM may potentially be the former hospital buildings erected in the 1940s, and aerial photography suggests that these structures extended across the Study Area. Given the shared history of the Study Area with Riverwood North and the widespread presence of ACM encountered at Riverwood North, it is considered likely that fill material at the Study Area will be impacted with asbestos from the demolished hospital buildings. Potential asbestos impacts have therefore been classified as high risk and are considered to be the key constraint in the proposed higher density residential redevelopment of the Study Area.

Thus, there is potential for the proposed development to require the remediation and/or management of asbestos impacted soils to make the land suitable for continued residential and recreational land uses.

Based on the findings of this updated Stage 1 PSI and CSM developed for the Study Area and with consideration to the requirements of SEPP 55 and the historical use of the adjoining Salt Pan Creek Reserve as a landfill, AECOM recommends the following:

- A Stage 2 Contamination Assessment to characterise the fill material across the Study Area and assess the presence and extent of potential asbestos impacts. Soil samples should be analysed for the CoPCs listed in **Section 7.1.2**. The gravimetric quantification of asbestos in soil will be required to assess against the HSLs for asbestos contamination in soil provided in the ASC NEPM (2013). ACM identified at Riverwood North was confined to fill material; therefore, delineating the extent of fill material across the Study Area is essential to ascertain the potential presence and extent of impacts. Testing for actual or potential acid sulfate soil (ASS/PASS) is recommended in the western portion of the Study Area (where Class 2 acid sulfate soils are mapped) so that it can be appropriately managed during construction (if present). Testing for salinity should be undertaken across the Study Area with a particular focus on those areas where water accumulation is high. In addition, a groundwater investigation is required to assess the potential for groundwater impacts.
- Considering the proximity of the Study Area to the landfill to its west, there is potential for landfill gas to be migrating onto the Study Area. This would be an issue where the potential for accumulation exists (e.g. in the basements of proposed buildings). Whilst historical landfill gas monitoring results remain low, it is recommended that screening for the presence of landfill gas occur as part of the proposed Stage 2 Contamination Assessment.
- Based on the results of the intrusive investigation, remediation and/or management of impacted areas may be required to mitigate risks associated with the identified impacts. In AECOM's experience, depending on the quantity of material encountered and the proposed development, it may be more cost effective for the impacted fill material to be retained on site and managed under an environmental management plan.
- Development of a CEMP to manage risks to construction and maintenance workers from asbestos-impacted soils, other potential impacts associated with fill material, landfill gases and/or acid sulfate soils (depending on the outcome of the Stage 2 Contamination Assessment and remedial works) during the redevelopment of the Study Area. The CEMP would incorporate specific protocols to prevent erosion from occurring as a result of the disturbance of surface and sub-soils during construction.

## 9.0 References

Australia and New Zealand Environment Conservation Council (ANZECC), 2000. Australian and New Zealand Water Quality Guidelines for Fresh and Marine Water Quality

Bureau of Meteorology. Canterbury (Canterbury Racecourse) Station. Sourced from [www.bom.gov.au](http://www.bom.gov.au) on 24 November 2020.

Canterbury Commons, Riverwood NSW. Sourced from [www.canterburycommons.net](http://www.canterburycommons.net) on 12 September 2016.

Canterbury City Council. Salt Pan Creek – Pollution Monitoring Data. Sourced from [www.canterbury.nsw.gov.au](http://www.canterbury.nsw.gov.au).

Chapman G.A. and Murphy C.L., 1989, Soil Landscapes of the Sydney 1:100,000 Sheet report, Department of Conservation and Land Management, Sydney.

Coffey, 2019. Salt Pan Creek Landfill Closure – Report on Groundwater Review 12 Months Following Closure Work Kentucky Road, Riverwood NSW, dated September 2019

Earth2Water, 2016, Annual Monitoring Report R12 August 2016 Salt Pan Creek Landfill (EPL 10636).

JBS Environmental, 2011a. Stage 2 Environmental Site Assessment, Riverwood North Residential Renewal Project. January 2011.

JBS Environmental, 2011b. Remediation Action Plan, Riverwood Residential Renewal Project, Riverwood, NSW. January 2011.

Jeffery and Katauskas, 2010. Geotechnical Investigation for Riverwood North Renewal Project at Washington Avenue, Riverwood, NSW. November 2010.

Lotsearch, 2016. Environmental Risk and Planning Report, Riverwood Study Area, Riverwood, NSW 2210. 12 September 2016.

Lotsearch, 2020. Lotsearch Enviro Lite, Riverwood Estate, Riverwood. Reference LS016358 EL. 26 November

NSW DECC, 2009. Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997.

National Environment Protection Council (NEPC), 2013. National Environment Protection (Assessment of Site Contamination) Measure (ASC NEPM).

NSW EPA, 2012. Guidelines for the assessment and management of sites affected by hazardous ground gases. November 2012.

NSW EPA, 2016. Environmental Guidelines: Solid Waste Landfills, Second edition 2016

NSW EPA, 2017. Guidelines for the NSW Site Auditor Scheme (3<sup>rd</sup> edition), October

NSW EPA, 2020. Guidelines for Consultants Reporting on Contaminated Sites.

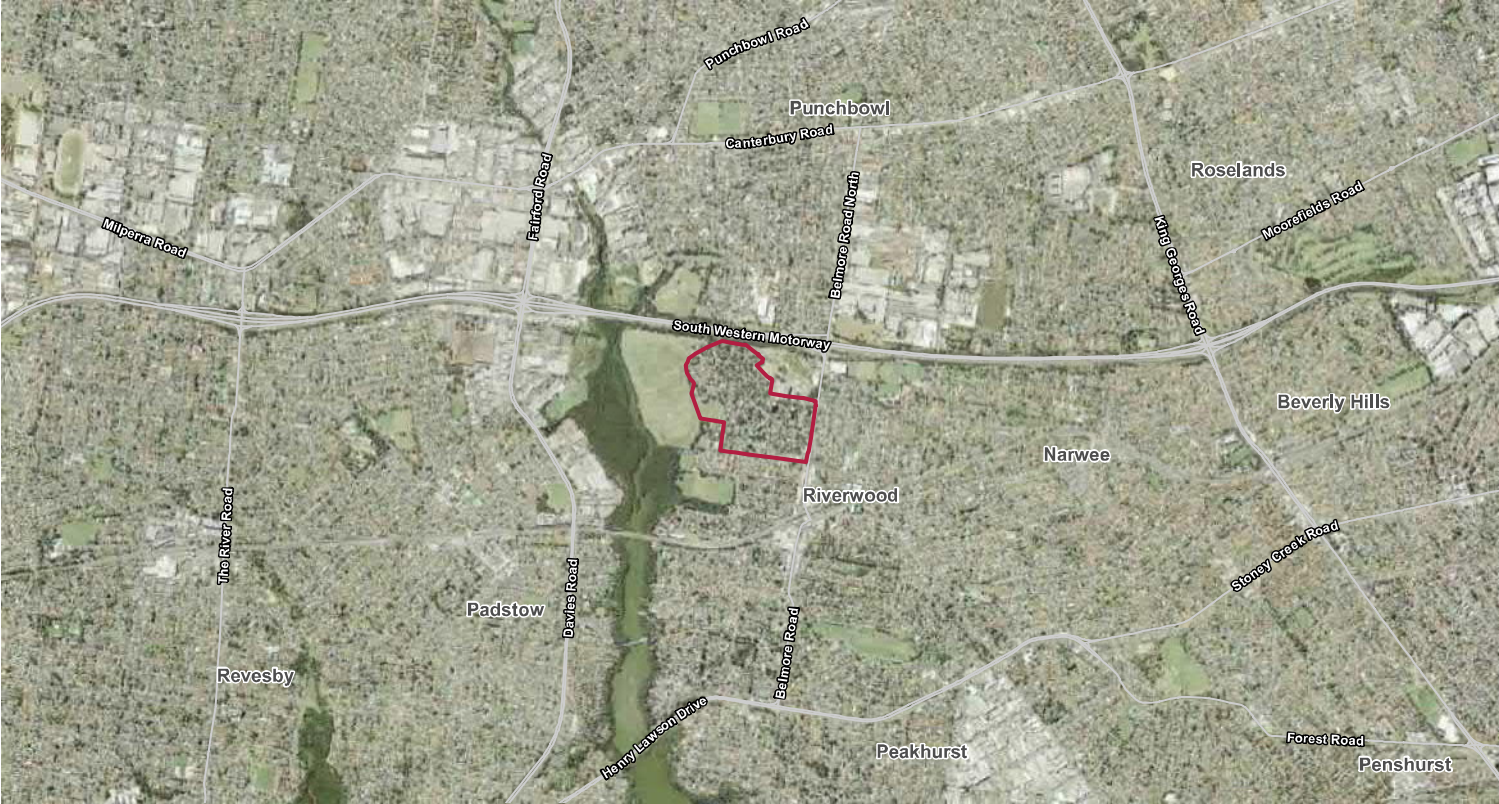
NSW EPA. Contaminated Land Record of Notices and NSW Contaminated Sites Notified to the EPA. Sourced from [www.epa.nsw.gov.au](http://www.epa.nsw.gov.au) on 24 November 2020.

Otta International, August 2012, Salt Pan Creek Reserve Canterbury City Council Pollution Incident Response Management Plan.

Salt Pan Creek Monitoring Data, supplied by Canterbury Bankstown Council


# Appendix A

Figures



KEY  
Site boundary

**AECOM**

 0 400 800 m

Disclaimer: Spatial data used under license from Land and Property Management Authority, NSW © 2015.  
AECOM makes no representations or warranties of any kind, about the accuracy, reliability, completeness, suitability or fitness for purpose in relation to the map content.



SCALE: 1:30,000  
1 of 1  
GDA 1994 MGA Zone 56

**FIGURE 1 - Site location**

PROJECT  
Phase 1 Contamination Assessment  
Riverwood Renewal Project

1.1.1  
NSW LAND AND HOUSING CORPORATION


DATE	SC	DATE	W.P.F.	REV	Triged
5/02/2021					

0001 01 60518855



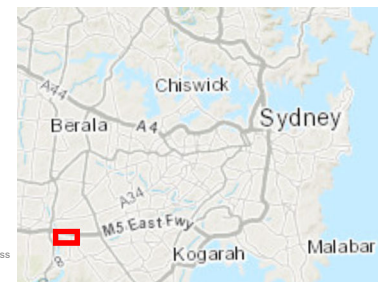
#### KEY

- Lot
- XX Lot numbering
- Open space
- Site boundary

 0 50 100 m

Disclaimer Spatial data used under licence from Land and Property Management Authority, NSW © 2015.

AECOM makes no representations or warranties of any kind, about the accuracy, reliability, completeness, suitability or fitness for purpose in relation to the map content.



SCALE		1:6,000	SIZE		A4
SHEET		1 of 1	COORDINATE SYSTEM GDA 1994 MGA Zone 56		
TITLE					
FIGURE 2 - Site layout					
PROJECT					
Phase 1 Contamination Assessment Riverwood Renewal Project					
CLIENT					
NSW LAND AND HOUSING CORPORATION					
DRAWN	SC	DATE	30/03/2022	MAP #	REV
				Project	
CHECK		DATE			
			G002 02 60518855		

# Appendix B

## Lotsearch Reports

# Lotsearch



## Environmental Risk and Planning Report

**Riverwood Study Area, Riverwood, NSW 2210**

**Report Buffer: 1000m**

**Report Date: 12 Sep 2016 08:58:35**

**Disclaimer:**

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

## Table of Contents

Location Confidences.....	2
Dataset Listings .....	3
Site Location Aerial .....	5
Contaminated Land & Waste Management Facilities.....	6
EPA Current Licensed Activities.....	9
EPA Delicensed & Former Licensed Activities.....	11
UPSS Sensitive Zones.....	14
Historical Business Activities.....	15
Historical Aerial Imagery & Maps .....	24
Topographic Features .....	34
Elevation Contours.....	40
Hydrogeology & Groundwater .....	41
Geology.....	47
Naturally Occurring Asbestos Potential.....	49
Soil Landscapes.....	50
Acid Sulfate Soils .....	52
Dryland Salinity .....	54
Mining Subsidence Districts .....	55
State Environmental Planning.....	56
Local Environmental Planning.....	57
Heritage .....	63
Natural Hazards .....	64
Ecological Constraints.....	65
Terms & Conditions.....	71

## Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

## Dataset Listing

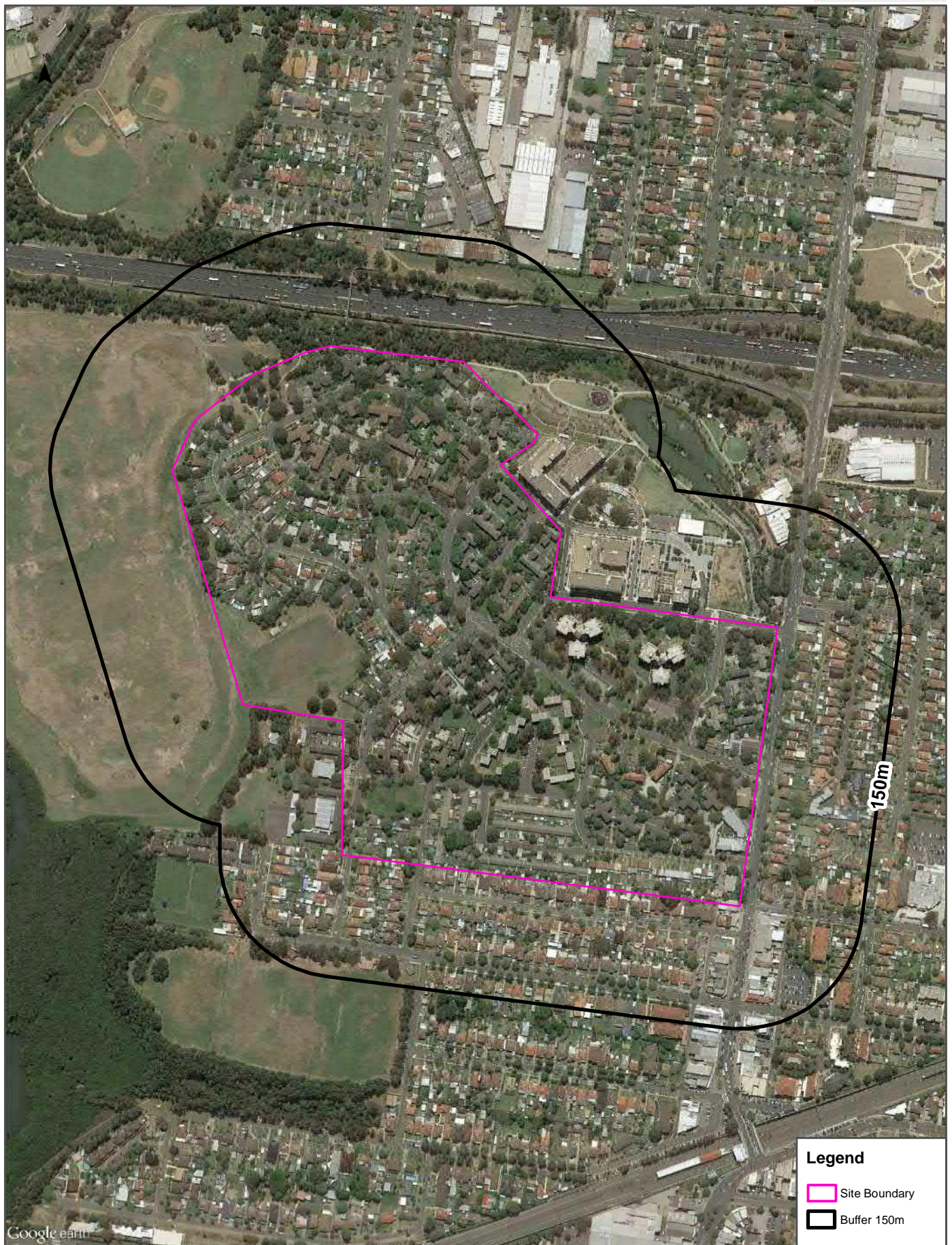
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	Land and Property Information	12/09/2016	12/09/2016	Daily	-	-	-
Topographic Data	Land and Property Information	10/04/2015	01/04/2015	As required	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	10/09/2016	21/06/2016	Monthly	0	0	6
Contaminated Land: Records of Notice	Environment Protection Authority	06/09/2016	06/09/2016	Monthly	0	0	1
Former Gasworks	Environment Protection Authority	06/09/2016	10/05/2013	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	06/07/2016	15/11/2012	Quarterly	1	1	2
Licensed Activities under the POEO Act 1997	Environment Protection Authority	22/08/2016	22/08/2016	Monthly	0	0	13
Delicensed POEO Activities still Regulated by the EPA	Environment Protection Authority	22/08/2016	22/08/2016	Monthly	0	0	2
Former POEO Licenced Activities now revoked or surrendered	Environment Protection Authority	22/08/2016	22/08/2016	Monthly	6	7	18
UPSS Environmentally Sensitive Zones	Department of Environment, Climate Change and Water (NSW)	14/04/2015	12/01/2010	As required	1	1	1
UBD Business to Business Directory 1991	Hardie Grant			Not required	0	3	4
UBD Business Directory 1991 Motor Garages/Service Stations	Hardie Grant			Not required	0	1	3
UBD Business Directory 1970	Hardie Grant			Not required	1	62	81
UBD Business Directory 1970 Drycleaners & Motor Garages/Service Stations	Hardie Grant			Not required	0	4	14
UBD Business Directory 1950	Hardie Grant			Not required	0	39	50
UBD Business Directory 1950 Drycleaners & Motor Garages/Service Stations	Hardie Grant			Not required	0	2	3
Points of Interest	Land and Property Information	10/04/2015	01/04/2015	Annually	4	7	60
Tanks (Areas)	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
Tanks (Points)	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
Easements	Land and Property Information	11/06/2014	11/06/2014	As required	1	1	61
State Forest	Land and Property Information	11/04/2016	23/01/2015	As required	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment and Heritage	11/04/2016	31/12/2015	Annually	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Boreholes	NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation; Commonwealth of Australia (Bureau of Meteorology) 2015	21/03/2016	01/12/2015	Annually	0	0	46
Geological Units 1:100,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	2	-	5
Geological Structures 1:100,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	0	-	2
Naturally Occurring Asbestos Potential	NSW Department of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	0	0	0
Soil Landscapes	NSW Office of Environment and Heritage	12/08/2014		None planned	3	-	8
Acid Sulfate Soils	NSW Planning and Environment	06/07/2016	19/09/2008	As required	2	-	-
Dryland Salinity Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	0	0	0
Mining Subsidence Districts	Land and Property Information	12/09/2016	12/09/2016	As required	0	0	0
SEPP 14 - Coastal Wetlands	NSW Planning and Environment	17/12/2015	24/10/2008	Annually	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features within Buffer
SEPP 26 - Littoral Rainforest	NSW Planning and Environment	17/12/2015	05/02/1988	Annually	0	0	0
SEPP 71 - Coastal Protection	NSW Planning and Environment	17/12/2015	01/08/2003	Annually	0	0	0
SEPP Major Developments 2005	NSW Planning and Environment	09/03/2013	25/05/2005	Under Review	0	0	0
SEPP Strategic Land Use Areas	NSW Planning and Environment	06/07/2016	28/01/2014	Annually	0	0	0
Local Environmental Plan - Land Zoning	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	5	14	113
Local Environmental Plan - Minimum Subdivision Lot Size	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	1	-	-
Local Environmental Plan - Height of Building	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	2	-	-
Local Environmental Plan - Floor Space Ratio	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	4	-	-
Local Environmental Plan - Land Application	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	2	-	-
Local Environmental Plan - Land Reservation Acquisition	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	0	-	-
State Heritage Items	NSW Planning and Environment	15/08/2016	12/03/2015	Quarterly	0	0	0
Local Heritage Items	NSW Planning and Environment	15/08/2016	10/07/2016	Quarterly	0	0	0
Bushfire Prone Land	NSW Rural Fire Service	18/08/2016	12/08/2016	Quarterly	0	0	0
Native Vegetation of the Sydney Metropolitan Area	NSW Office of Environment and Heritage	08/10/2014	11/10/2013	As required	2	3	15
RAMSAR Wetlands	Commonwealth of Australia Department of the Environment	08/10/2014	24/06/2011	As required	0	0	0
ATLAS of NSW Wildlife	NSW Office of Environment and Heritage	12/09/2016	12/09/2016	Daily	-	-	-

# Aerial Imagery 2015

Riverwood Study Area, Riverwood, NSW 2210



## Legend

- Site Boundary
- Buffer 150m

Scale:  
0 75 150 300  
Meters

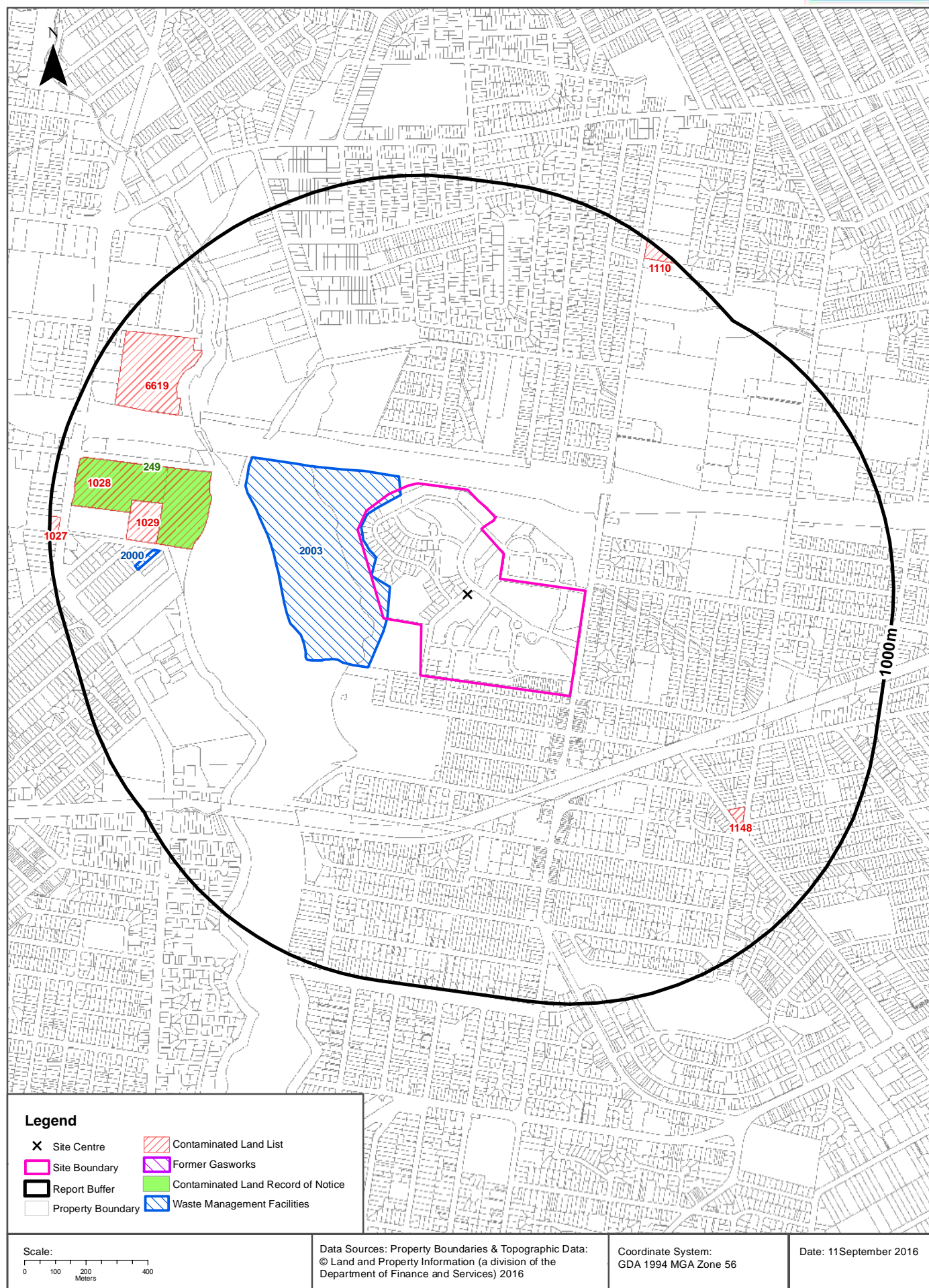
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 08 September, 2016

# Contaminated Land & Waste Management Facilities

Riverwood Study Area, Riverwood, NSW 2210



# Contaminated Land & Waste Management Facilities

Riverwood Study Area, Riverwood, NSW 2210

## List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the report buffer:

Map Id	Site	Address	Suburb	Activity	EPA site management class	Status	Dist	Direction	LC
1028	Exide	55 Bryant Street	Padstow	Other Industry	Contamination currently regulated under CLM Act	Current EPA List	486m	West	1
1148	7-Eleven Service Station	30 Bonds Road	Riverwood	Service Station	Under assessment	Current EPA List	630m	South East	1
1029	Foseco Australia Pty Ltd	7 Stuart Street	Padstow	Chemical Industry	Under assessment	Current EPA List	640m	West	1
6619	Selleys / Dulux	1-29 Gow Street	Padstow	Unclassified	Under assessment	Current EPA List	685m	North West	1
1110	Punchbowl Laundry	42-44 Belmore Road	Punchbowl	Chemical Industry	Under assessment	Current EPA List	943m	North East	1
1027	Caltex Service Station	115 Fairford Road	Padstow	Service Station	Under assessment	Current EPA List	967m	West	1

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Contaminated Land & Waste Management Facilities

Riverwood Study Area, Riverwood, NSW 2210

## Contaminated Land: Records of Notice

Record of Notices within the report buffer:

Map Id	Area No	Name	Address	Suburb	Notices	Distance	Direction	LC
249	3266	Exide	55 Bryant Street	Padstow	2 current	486m	West	1

Contaminated Land Records of Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit

<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

## Former Gasworks

Former Gasworks within the report buffer:

Map Id	Location	Council	Further Info	Distance	Direction	LC
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

## National Waste Management Site Database

Sites on the National Waste Management Site Database within the report buffer:

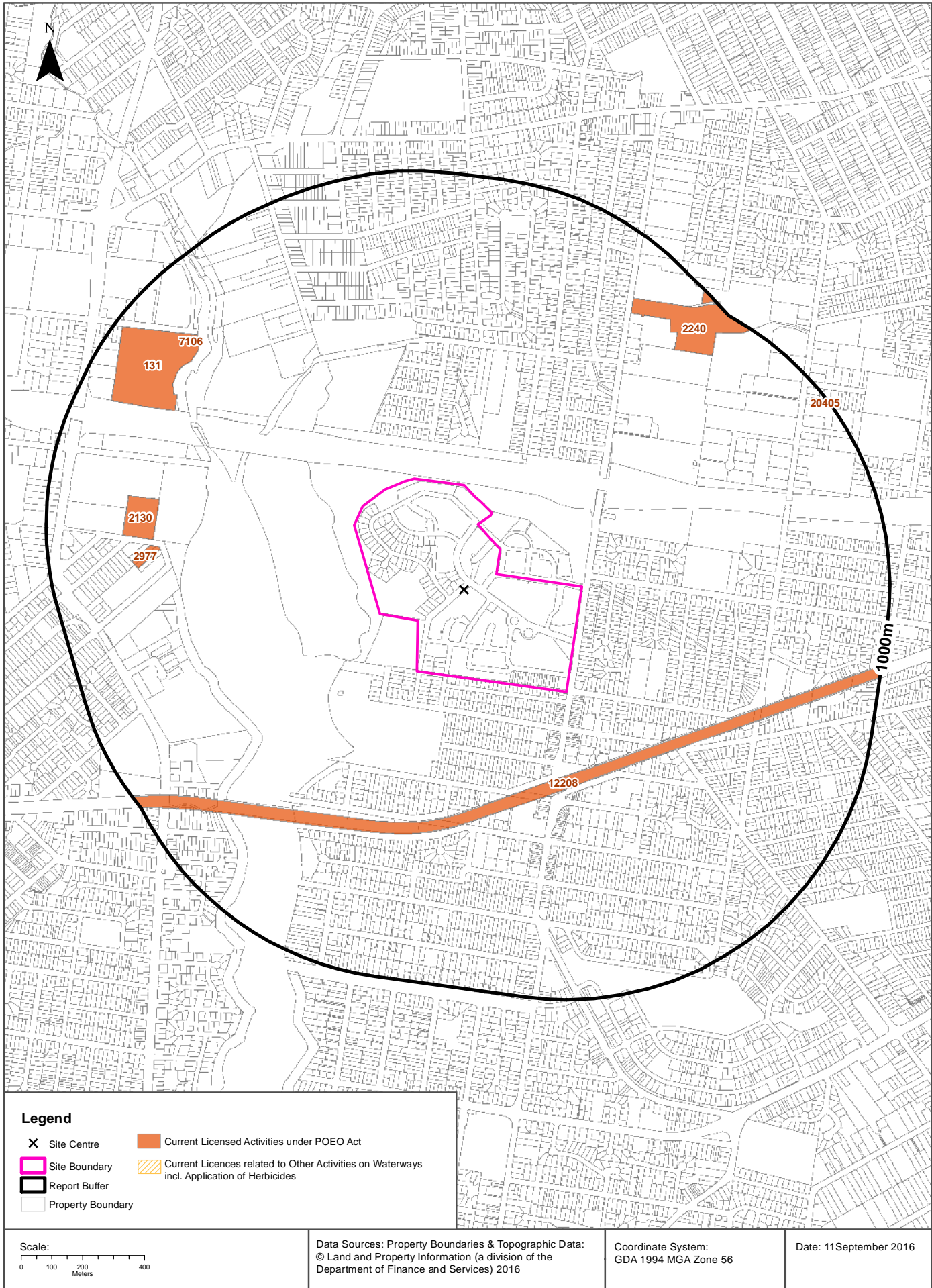
Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Distance	Direction	LC
2003	Canterbury City Council	Salt Pan Creek Tip	Kentucky Road	Riverwood	2210	Operating	Operating	Operating	0m	Onsite	1
2000	Transpacific Industries / Cleanaway	Cleanaway	12 Stuart Street	Padstow	2211	Not Applicable	Operating	Operating	647m	West	1

Waste Management Facilities Data Source: Australian Government Geoscience Australia

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Current EPA Licensed Activities

Riverwood Study Area, Riverwood, NSW 2210



## EPA Activities

Riverwood Study Area, Riverwood, NSW 2210

### Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the report buffer:

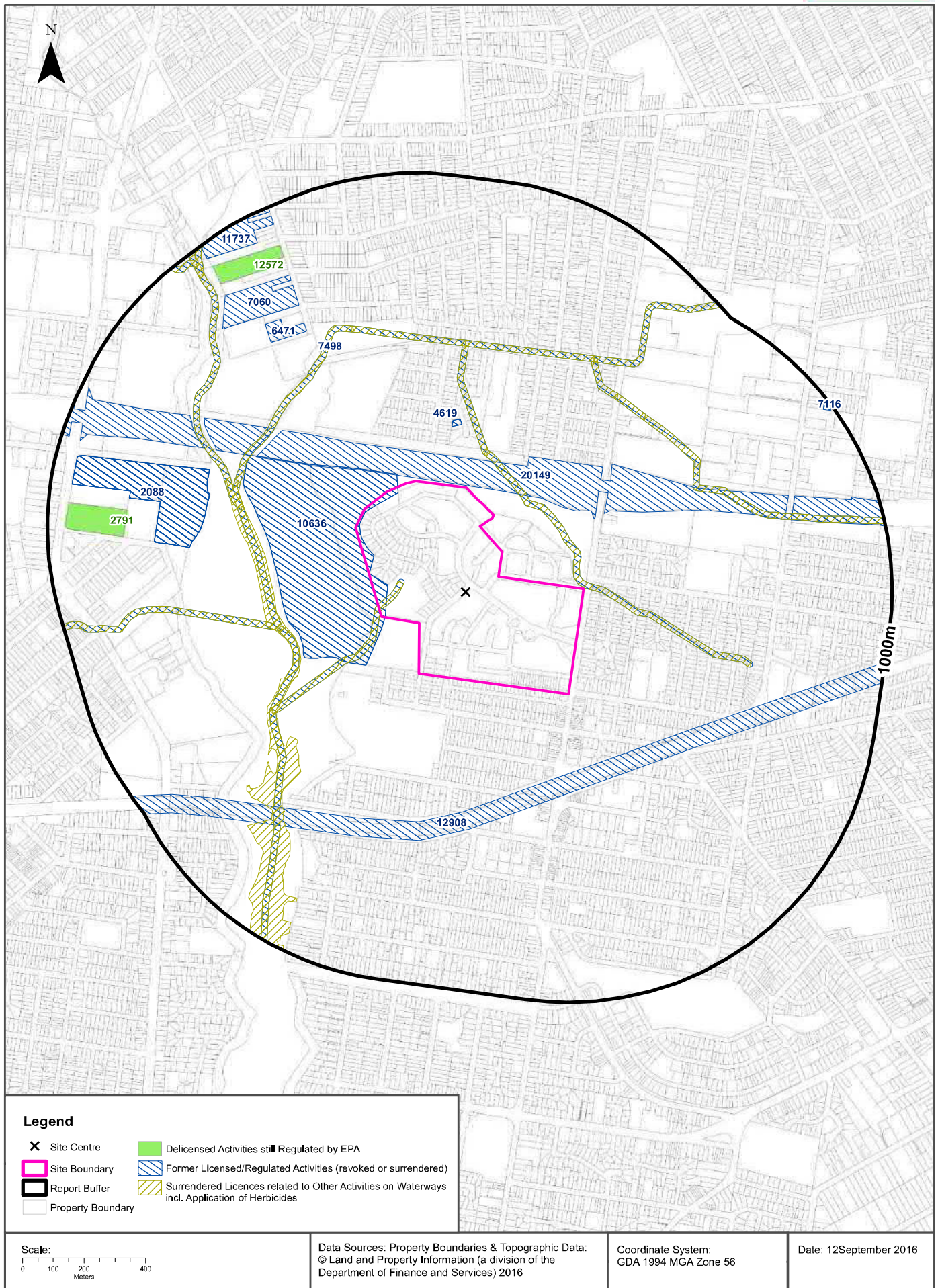
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
12208	SYDNEY TRAINS		PO BOX K349, HAYMARKET, NSW 1238		Railway systems activities	3	258m	North
2977	CLEANAWAY OPERATIONS PTY LTD	CLEANAWAY	12 - 14 STUART STREET	PADSTOW	Non-thermal treatment of hazardous and other waste	1	635m	West
2130	FOSECO PTY LIMITED	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	Dangerous goods production	1	640m	West
2130	FOSECO PTY LIMITED	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	General chemicals storage	1	640m	West
2130	FOSECO PTY LIMITED	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	Non-thermal treatment of hazardous and other waste	1	640m	West
2130	FOSECO PTY LIMITED	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	1	640m	West
131	DULUXGROUP (AUSTRALIA) PTY LTD	DULUX AUSTRALIA	Paint warehouse and distribution building, 15 GOW STREET, PADSTOW, NSW 2211	PADSTOW	Chemical storage waste generation	1	685m	North West
131	DULUXGROUP (AUSTRALIA) PTY LTD	DULUX AUSTRALIA	Paint warehouse and distribution building, 15 GOW STREET, PADSTOW, NSW 2211	PADSTOW	General chemicals storage	1	685m	North West
7106	DULUXGROUP (AUSTRALIA) PTY LTD	SELLEYS	1 GOW STREET	PADSTOW	Chemical production waste generation	1	745m	North West
7106	DULUXGROUP (AUSTRALIA) PTY LTD	SELLEYS	1 GOW STREET	PADSTOW	Paints/polishes /adhesives production	1	745m	North West
2240	THE AUSTRAL TILE COMPANY PTY LTD	AUSTRAL TILES	62 BELMORE ROAD	PUNCHBOWL	Ceramic waste generation	1	777m	North East
2240	THE AUSTRAL TILE COMPANY PTY LTD	AUSTRAL TILES	62 BELMORE ROAD	PUNCHBOWL	Ceramics production	1	777m	North East
20405	APEX RUBBER RECYCLING PTY LTD		21 SKINNER AVENUE, RIVERWOOD, NSW 2210		Recovery of waste tyres, Waste storage - waste tyres	1	971m	North East

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Delicensed & Former Licensed EPA Activities

Riverwood Study Area, Riverwood, NSW 2210



## EPA Activities

### Riverwood Study Area, Riverwood, NSW 2210

## Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the report buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
2791	G.A & L. HARRINGTON PTY LTD	G.A & L. HARRINGTON PTY LTD	108 FAIRFORD ROAD	PADSTOW	Hazardous, Industrial or Group A Waste Generation or Storage	1	742m	West
12572	FINISHED PRODUCTS PTY LTD	Finished Products P/L	31 Moxon Road	PUNCHBOWL	Hazardous, Industrial or Group A Waste Generation or Storage	1	817m	North West

Delicensed Activities Data Source: Environment Protection Authority  
 © State of New South Wales through the Environment Protection Authority

## Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the report buffer:

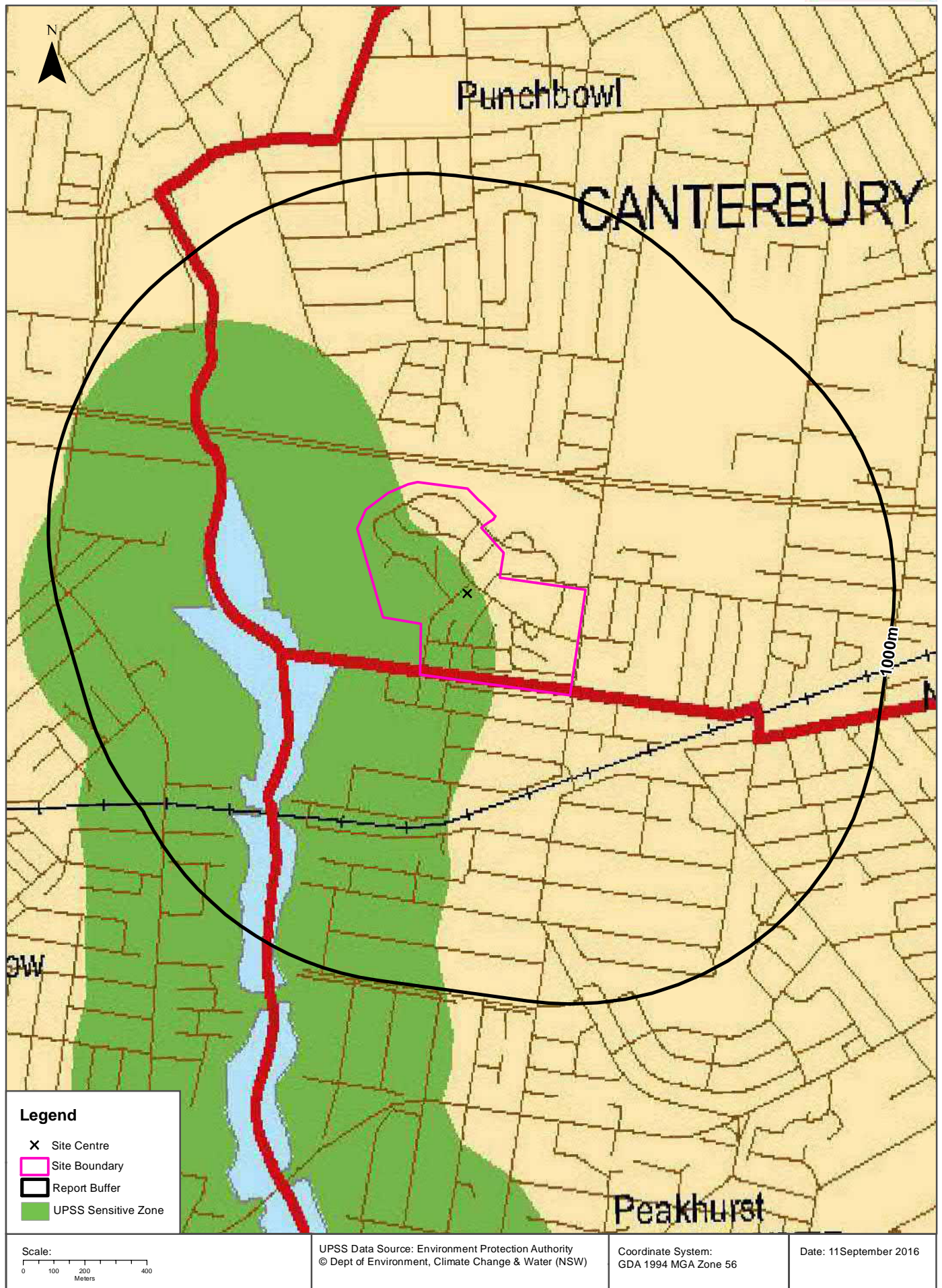
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
10636	CANTERBURY CITY COUNCIL	SALT PAN CREEK TIP, Kentucky Road, RIVERWOOD	Surrendered	22/05/2000	Non-thermal treatment of general waste	1	0m	Onsite
10636	CANTERBURY CITY COUNCIL	SALT PAN CREEK TIP, Kentucky Road, RIVERWOOD	Surrendered	22/05/2000	Waste disposal by application to land	1	0m	Onsite
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite
7498	BANKSTOWN CITY COUNCIL	-, Waterways throughout Bankstown City Council, BANKSTOWN	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite
20149	LEND LEASE ENGINEERING PTY LIMITED	M5 West Widening - Kings Georges Rd to Camden Valley Way, PO Box 5700, WEST CHATSWOOD	Surrendered	07/08/2012	Road construction	3	6m	North East
4619	POLLUTION AND LABORATORY SERVICES PTY. LIMITED	POLLUTION & LABORATORY SERVICES PTY LIMITED, 12 SCHOFIELDS STREET, RIVERWOOD	Surrendered	02/05/2000	Non-thermal treatment of hazardous and other waste	1	191m	North
4619	POLLUTION AND LABORATORY SERVICES PTY. LIMITED	POLLUTION & LABORATORY SERVICES PTY LIMITED, 12 SCHOFIELDS STREET, RIVERWOOD	Surrendered	02/05/2000	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	1	191m	North

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
12908	CPB CONTRACTORS PTY LIMITED	King Georges Road, BEVERLY HILLS, NSW 2209	Surrendered	18/09/2008		3	243m	South
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Battery production	1	486m	West
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Chemical production waste generation	1	486m	West
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Contaminated soil treatment	1	486m	West
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Recovery of hazardous and other waste	1	486m	West
6471	RESOURCE RECYCLING TECHNOLOGIES PTY. LTD.	3/57 MOXON ROAD, PUNCHBOWL, NSW 2196	Surrendered	28/04/2000	Hazardous, Industrial or Group A Waste Generation or Storage	1	582m	North West
7060	DONAGHYS SARLON PTY. LTD.	51 MOXON ROAD, PUNCHBOWL, NSW 2196	Surrendered	11/08/2000	Hazardous, Industrial or Group A Waste Generation or Storage	1	669m	North West
11737	TRIVAC METALS PTY LTD	11 - 15 MOXON ROAD, PUNCHBOWL, NSW 2196	Surrendered	16/09/2002	Hazardous, Industrial or Group A Waste Generation or Storage	1	909m	North West
7116	PERFECTION PLATE HOLDINGS PTY LTD	19 SKINNER AVE, RIVERWOOD, NSW 2210	Surrendered	14/11/2000	Metal waste generation; Metal coating	1	971m	North East

Former Licensed Activities Data Source: Environment Protection Authority  
 © State of New South Wales through the Environment Protection Authority

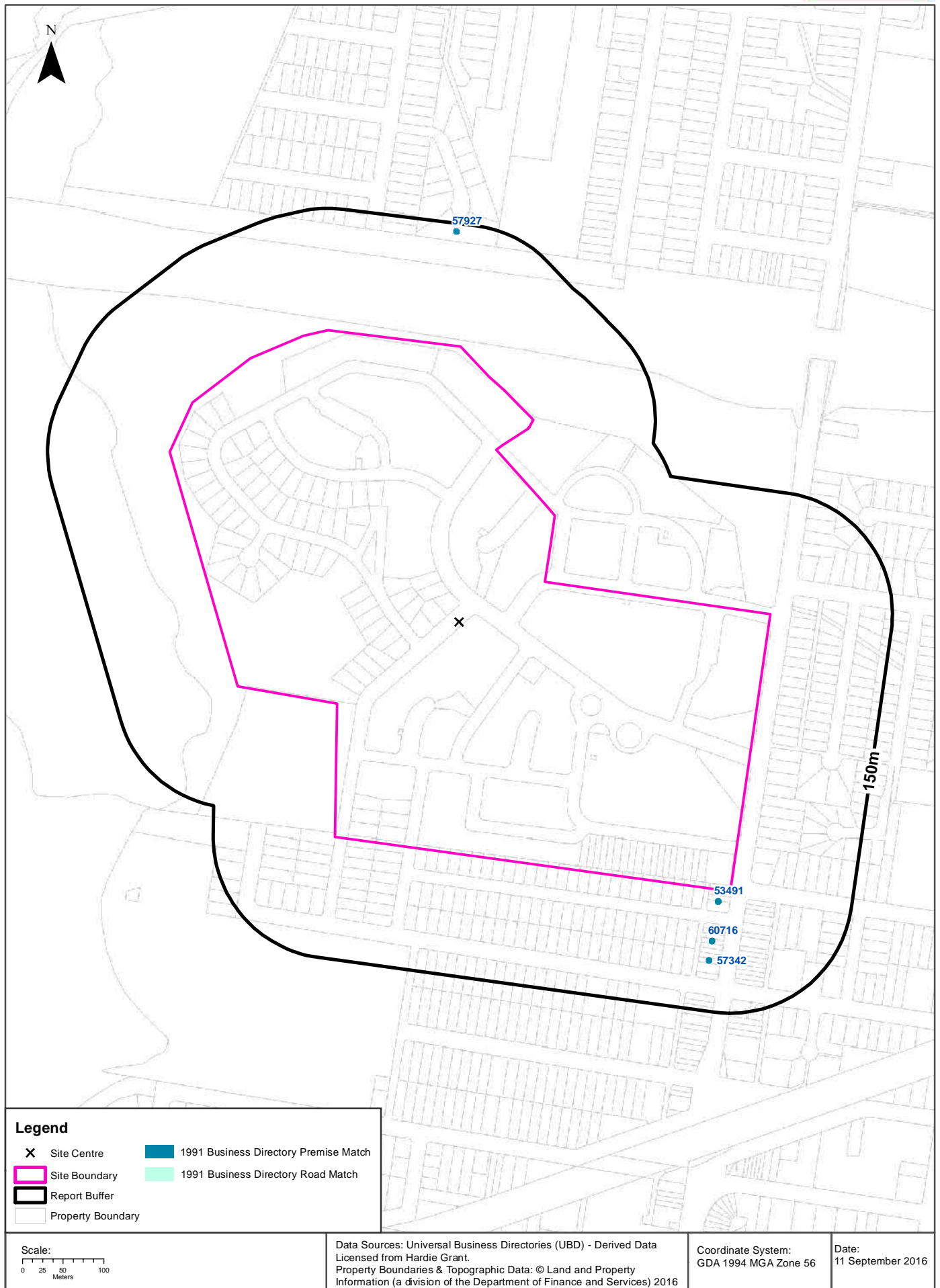
## UPSS Sensitive Zones

Riverwood Study Area, Riverwood, NSW 2210



# 1991 Historical Business Directory Records

Riverwood Study Area, Riverwood, NSW 2210



## Historical Business Directories

### Riverwood Study Area, Riverwood, NSW 2210

#### 1991 Business to Business Directory Records

Records from the 1991 UBD Business to Business Directory within 150m of the site:

Business Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
Motor Garages & Service Stations	Ampol Riverwood Service Station	345 Belmore Rd, Riverwood 2210	53491	Premise Match	12m	South East
Real Estate Agents	Riverwood Real Estate,	337 Belmore Rd., Riverwood. 2210.	60716	Premise Match	62m	South East
Photographers General	Spectra Photographics	329 Belmore Rd Riverwood 2210	57342	Premise Match	86m	South East
Plastic Goods Mfrs &/or Imps &/or Dists	Helio Plastics Pty Ltd	8 Schofield St Riverwood 2210	57927	Premise Match	138m	North

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

#### 1991 Business Directory Motor Garages & Service Stations

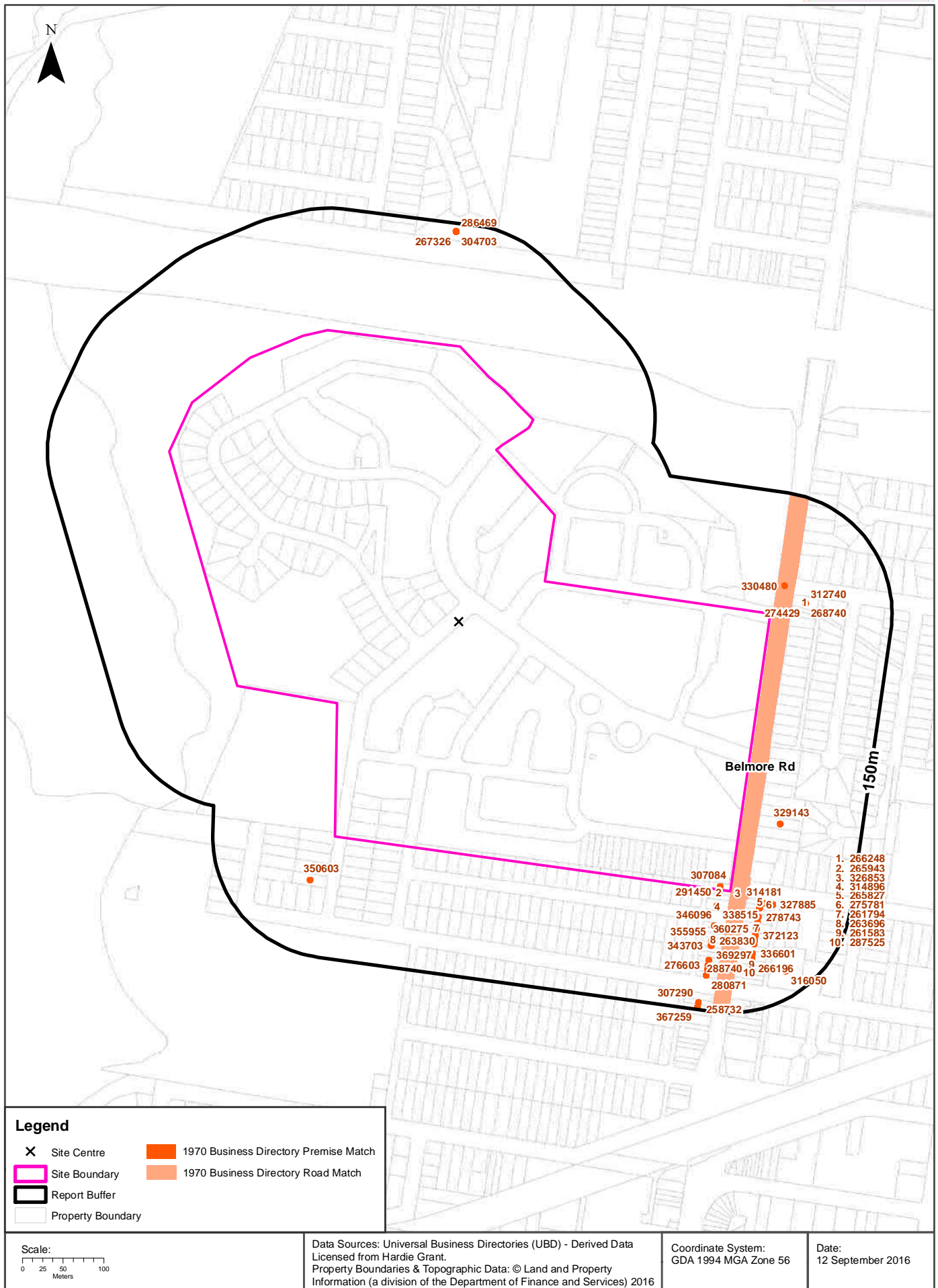
Motor Garages & Service Stations from the 1991 UBD Business Directory within 1km of the site:

Business Activity	Organisation	Address	Ref No.	Location Confidence	Distance	Direction
Motor Garages & Service Stations	Ampol Riverwood Service Station	345 Belmore Rd, Riverwood 2210	53491	Premise Match	12m	South East
Motor Garages & Service Stations	Shell Riverwood Service Station	197 Belmore Rd., Riverwood	53869	Premise Match	709m	South
Motor Garages & Service Stations	Shell Punchbowl Self Serve	Cullens Rd., Punchbowl	53868	Road Match	791m	North

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

# 1970 Historical Business Directory Records

Riverwood Study Area, Riverwood, NSW 2210



# Historical Business Directories

## Riverwood Study Area, Riverwood, NSW 2210

### 1970 Business Directory Records

Records from the 1970 UBD Business Directory within 150m of the site:

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
FRUITERERS/GREENGROCERS (F640)	Fred & Mick Fruit Palace,353 Belmore Rd.,Riverwood	307084	Premise Match	0m	Onsite
BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Gino's Hair Fashions Studio, 351 Belmore Rd., Riverwood	265943	Premise Match	1m	South East
DRESS SHOPS (D595)	Leydin,Pauline,351a Belmore Rd.,Riverwood	291450	Premise Match	1m	South East
BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Eugene Gaal, Belmore Rd., Riverwood.	265857	Road Match	1m	East
MEDICAL PRACTITIONERS (M216)	Hardie,R.,Belmore Rd.,Riverwood	327077	Road Match	1m	East
DANCING TEACHERS & STUDIOS (D070)	Hilton,T.& B.,1 Riverwood Chambers,Belmore Rd.,Riverwood	286977	Road Match	1m	East
MOTOR TOWING SERVICES (M744)	Melody Service Station Pty. Ltd.,Belmore Rd.,Riverwood	342520	Road Match	1m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Melody Service Station Pty. Ltd.,Belmore Rd.Riverwood	338244	Road Match	1m	East
MOTOR WHEEL REPAIRERS/SPECIALISTS (M756)	Riverwood Driceway,Belmore Rd.,Riverwood	342773	Road Match	1m	East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Riverwood Driveway,Belmore Rd.Riverwood	341433	Road Match	1m	East
STATIONERS-RETAIL (S516)	Riverwood Newsagent,Belmore Rd.,Riverwood	364757	Road Match	1m	East
MEDICAL PRACTITIONERS (M216)	Fowler,F. W.,401 Belmore Rd.,Riverwood	326853	Premise Match	8m	South East
CHEMISTS-PHARMACEUTICAL (C286)	Irvine, JJ., 240 Housing Estate, off Belmore Rd., Herne Bay	280581	Road Match	10m	South East
MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Melody Service Station Pty. Ltd.,Belmore Rd.,Riverwood	341936	Road Match	10m	South East
MEDICAL PRACTITIONERS (M216)	Monaghan,W.,Belmore Rd.,Riverwood	327721	Road Match	10m	South East
LOCKSMITHS/KEY CUTTERS (L650)	Barclay,W. H. Pty. Ltd.,345 Belmore Rd.	323825	Premise Match	18m	South East
PAINT,VARNISH,OILS/COLOUR MERCHANTS (P074)	Barclay,W. H. PTY. Ltd.,345 Belmore Rd.	346096	Premise Match	18m	South East
HARDWARE DEALERS/IRONMONGERS (H230)	Barclay,W. H. Pty. Ltd.,345 Belmore Rd.Riverwood	314896	Premise Match	18m	South East
MOTOR ENGINE RECONDITIONERS (M624)	Riverwood Service Station,345 Belmore Rd.,Riverwood,2210	337065	Premise Match	18m	South East
MOTOR GARAGES & ENGINEERS (M6S6)	Riverwood Service Station,345 Belmore Rd.Riverwood	338515	Premise Match	18m	South East
MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716)	Riverwood Service Station,345-349 Belmore Rd.Riverwood	341434	Premise Match	18m	South East
MILK,FRUIT JUICE BARS/CONFECTIONERS (M336)	Chris Milk Bar & Fruit,Hannans Rd. (at Belmore Rd.),Riverwood	330480	Road Intersection	37m	East
BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Elizabeth A Fani, 296 Belmore Rd., Riverwood	265827	Premise Match	38m	South East
CHINA, CROCKERY, CRYSTAL,CUTLERY, EARTHENWARE, GLASSWARE & SILVERWARE DEALERS (C307)	Brown Bros.(Jewellers) Pty. Ltd., 294 Belmore Rd., Riverwood	281414	Premise Match	40m	South East
JEWELLERS/WATCHMAKERS-RETAIL (J060)	Brown Bros. (Jewellers) Pty. Ltd.,294 Belmore Rd.,Riverwood	320974	Premise Match	40m	South East
BOOT & SHOE REPAIRERS (B580)	Breadens Corner Shoe Repairs (Wal Porter), Hannans Rd.(at 168 Belmore Rd.), Riverwood	268740	Premise Match	43m	East
BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Madamoiselle Beauty Salon, Hannans Rd at 168 Belmore Rd., Riverwood.	266248	Premise Match	43m	East
GROCERS-RETAIL (G655)	Mayfair Food Market,Hannans Rd. at 168 Belmore RdRiverwood	312740	Premise Match	43m	East
BUTCHERS-RETAIL (B860)	Riverdale Meat Co., Hannans Rd at 168 Belmore Rd.,Riverwood	274429	Premise Match	43m	East
DANCING TEACHERS & STUDIOS (D070)	Mapstone,Yvonne,343 Belmore Rd.,Riverwood	286988	Premise Match	43m	South East

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
HAIRDRESSERS (GENT.'S) (H070)	McMaster,A. & Son,59 Josephine St.,Riverwood	314181	Premise Match	43m	South East
CATERERS (C183)	Glenwood Lounge Wedding Receptions, 288-290 Belmore Rd.,Riverwood	278743	Premise Match	45m	South East
MERCERS-MEN'S & BOYS' OUTFITTERS(M232)	Shortall,Bob,238 Belmore Rd.,Riverwood	329143	Premise Match	47m	South East
MILK,FRUIT JUICE BARS/CONFECTIONERS (M336)	J. St L. Milk Bar,288 Belmore Rd.,Riverwood	330723	Premise Match	49m	South East
CAFES, COFFEE LOUNGES, Etc. (C030)	Leungs Cafe, 57 Josephine St., Riverwood	275781	Premise Match	49m	South East
MEDICAL PRACTITIONERS (M216)	Pang,Henry,55 Josephine St.,Riverwood	327885	Premise Match	53m	South East
ANTIQUE DEALERS (A400)	Val-Anthony Bazaar, 284-286 Belmore Rd, Riverwood	261794	Premise Match	55m	South East
FURNITURE-HOUSEHOLD-RETAILERS RETAILERS (F740)	Val-Anthony Bazaar,284-286 Belmore Rd.,Riverwood	309613	Premise Match	55m	South East
PAWNBROKERS/MONEYLENDERS (P208)	Val-Anthony Bazaar,284-286 Belmore Rd.,Riverwood	347487	Premise Match	55m	South East
SECOND-HAND DEALERS (S179)	Val-Anthony Bazaar,284-286 Belmore Rd.,Riverwood	360275	Premise Match	55m	South East
PLUMBERS,GASFITTERS/DRAINLAYER S(P608)	Hughes,D.,1 Union St. RIVERWOOD	350603	Premise Match	60m	South West
UPHOLSTERERS (U050)	Riverwood Upholsterers,282 Belmore Rd.,Riverwood	372123	Premise Match	61m	South East
AUCTIONEERS-GENERAL (A620)	Riverwood Real Estate, 337 Belmore Rd., Riverwood	263696	Premise Match	62m	South East
AUCTIONEERS-REAL ESTATE (A625)	Riverwood Real Estate, 337 Belmore Rd., Riverwood	263830	Premise Match	62m	South East
BUSINESS AGENTS &/OR BROKERS (B852)	Riverwood Real Estate, 337 Belmore Rd., Riverwood	272890	Premise Match	62m	South East
PROPERTY MANAGEMENT (P868)	Riverwood Real Estate,337 Belmore Rd.,Riverwood	353194	Premise Match	62m	South East
REAL ESTATE AGENTS/VALUERS (R205)	Riverwood Real Estate,337 Belmore Rd.Riverwood	355955	Premise Match	62m	South East
DRAPERS-RETAIL (D540)	Riverwood Bargain Store,280 Belmore Rd.,Riverwood	290580	Premise Match	66m	South East
BOOKSELLERS--RETAIL (B555)	McLennan's Newsagency, 335 Belmore Rd., Riverwood	268450	Premise Match	68m	South East
NEWSAGENTS (N100)	McLennan's Newsagency,335 Belmore Rd.,Riverwood	343703	Premise Match	68m	South East
STATIONERS-RETAIL (S516)	McLennan's Newsagency,335 Belmore Rd.,Riverwood	364677	Premise Match	68m	South East
TOBACCONISTS-RETAIL (T440)	McLennan's Newsagency,335 Belmore Rd.,Riverwood	369297	Premise Match	68m	South East
ELECTRICAL SUPPLIES/ APPLIANCES RETAILERS (E325)	Gillis Bros.,276-280 Belmore Rd.,Riverwood	295681	Premise Match	70m	South East
MOTOR CYCLE SALES/SERVICE (M596)	B.D.S. Motor Cycles,274 Belmore Rd.,Riverwood	336601	Premise Match	80m	South East
CHEMISTS-PHARMACEUTICAL (C286)	Riverwood Pharmacy, 272 Belmore Rd., Riverwood	281051	Premise Match	86m	South East
BABY & CHILDREN'S WEAR-RETAIL (B005)	Tiny Togs., 329 Belmore Rd., Riverwood	264298	Premise Match	86m	South East
HAIRDRESSERS (GENT.'S) (H070)	Julians,270a Belmore Rd.,Riverwood	314062	Premise Match	91m	South East
ANIMAL & BIRD FOOD SUPPLIES (A375)	Pets Pantry, 270 Belmore Rd, Riverwood	261583	Premise Match	91m	South East
CAKE SHOPS & PASTRYCOOKS (C045)	Isons of Riverwood, 327 Belmore Rd., Riverwood	276603	Premise Match	92m	South East
DENTISTS (D140)	King,B.G.,268 Belmore Rd.,Riverwood (& Kingsgrove)	288740	Premise Match	96m	South East
BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Lillian Hairdressing Salon, 268 Belmore Rd., Riverwood	266196	Premise Match	96m	South East
DELICATESENS (D080)	Riverwood Delicatessen,325 Belmore Rd.,Riverwood	287883	Premise Match	97m	South East
DELICATESENS (D080)	Horton's Continental,266 Belmore Rd.,Riverwood	287525	Premise Match	101m	South East
CHEMISTS-PHARMACEUTICAL (C286)	Belmore Road Pharmacy, 323 Belmore Rd., Riverwood	280061	Premise Match	105m	South East
CHEMISTS-PHARMACEUTICAL (C286)	Nelson, GW., 323 Belmore Rd., Riverwood	280871	Premise Match	105m	South East
MASSEURS/MASSEUSES (M152)	Colnic Hydro Therapy,40b Coleridge St.,Riverwood	325701	Premise Match	118m	South East
HEALTH FOOD RETAILERS (H350)	Riverwood Bulk & Health Foods,40c Coleridge St.,Riverwood	316050	Premise Match	118m	South East
AWNINGS-ALUMINIUM-MFRS.&/OR DIST. (A654)	Kooiashade Venetian Blinds, 8 Schofields St., Riverwood	263955	Premise Match	138m	North

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
BLIND MFRS. &/OR SPECIALISTS (B410)	Koolashade Venetian Blinds, 8 Schofield St, Riverwood	267165	Premise Match	138m	North
BLIND MFRS.-CANVAS & AWNING (B400)	Koolashade Venetian Blinds, 8 Schofield St., Riverwood	267245	Premise Match	138m	North
BLIND MFRS.-VENETIAN (B420)	Koolashade Venetian Blinds, 8 Schofield St., Riverwood	267326	Premise Match	138m	North
BLIND MFRS.-HOLLAND (B405)	Koolashade Venetian Blinds, 8 Schofield St., Riverwood, 2210	267283	Premise Match	138m	North
CURTAIN RAILS, RODS & RINGS MANUFACTURERS (C774)	Koolashade Venetian Blinds, 8 Schofield St., Riverwood, 2210	286469	Premise Match	138m	North
FLY SCREENS, DOORS/WINDOW-MFRS.&/OR DIST.(F385)	Koolashade Venetian Blinds, 8 Schofield St., Riverwood	304703	Premise Match	138m	North
FRUITERERS/GREENGROCERS (F640)	Joes Market, 319 Belmore Rd., Riverwood	307290	Premise Match	139m	South East
ACCOUNTANTS & AUDITORS (A040)	Eppes, PCS., 317 Belmore Rd., Riverwood	258732	Premise Match	145m	South East
TAXATION CONSULTANTS/SPECIALISTS (T090)	Eppes, P.C.S., 317 Belmore Rd., Riverwood	367259	Premise Match	145m	South East
WELDERS-ELECTRIC &/OR OXY(W145)	Advance Sheet Metal Co., 258 Essex Rd, Riverwood	373419	Suburb/Area Match	-	-
SHEET METAL WORKERS (S230)	Advance Sheet Metal Co., 258 Essex Rd., Riverwood	360522	Suburb/Area Match	-	-
PLUMBERS' SUPPLIES (P612)	Advance Sheet Metal Co., 258 Essex Rd., Riverwood	350203	Suburb/Area Match	-	-
ROOFING MATERIAL MFRS. &/OR DISTRIBUTORS (R415)	Advance Sheet Metal Co., 258 Essex Rd., Riverwood	357838	Suburb/Area Match	-	-

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## 1970 Business Directory Drycleaners & Service Stations

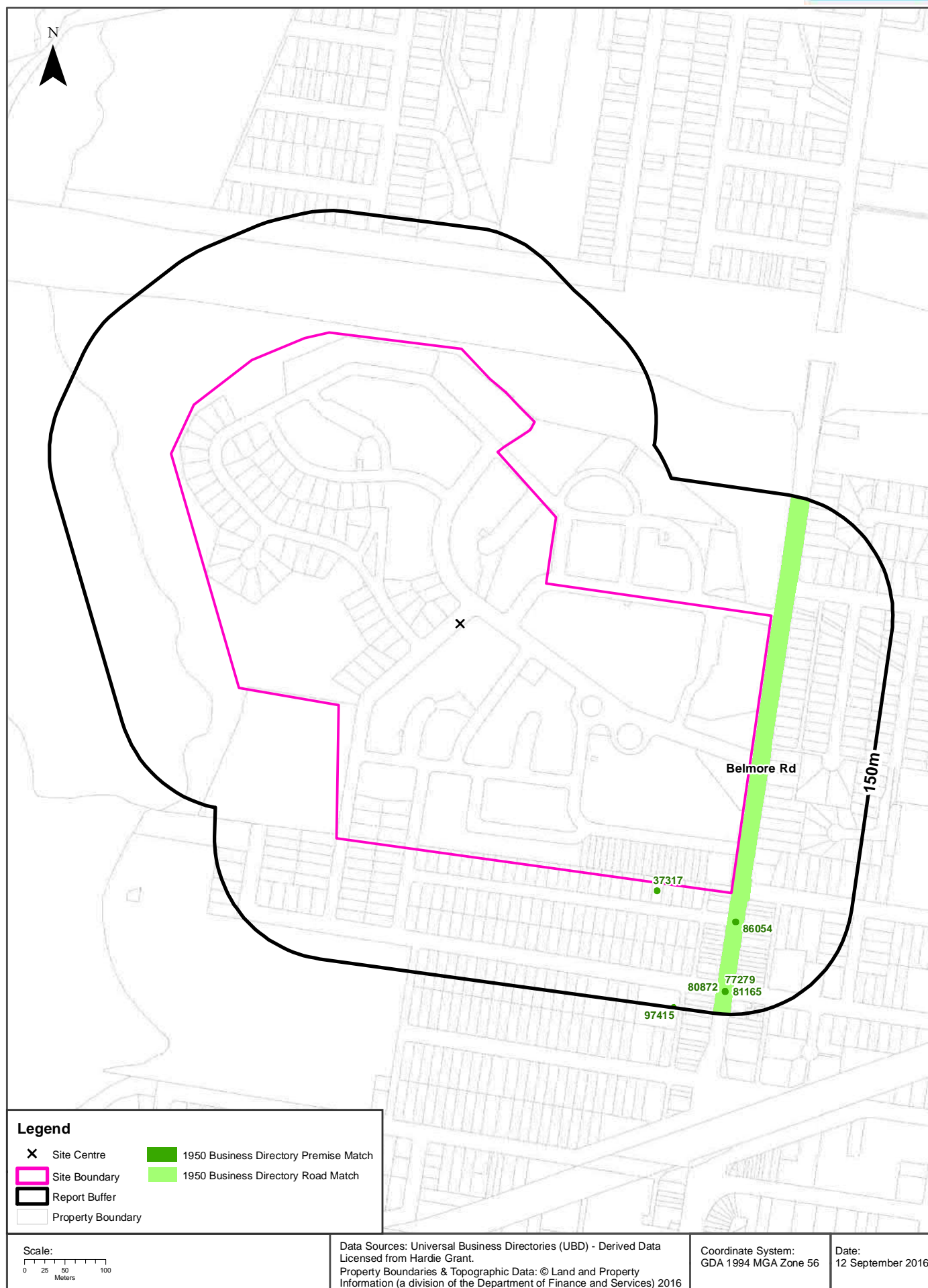
Drycleaners, Motor Garages & Service Stations from the 1970 UBD Business Directory within 1km of the site:

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
MOTOR GARAGES & ENGINEERS (M6S6)	Melody Service Station Pty. Ltd., Belmore Rd. Riverwood	338244	Road Match	1m	East
MOTOR SERVICE STATIONS-PETROL, OIL, Etc. (M716)	Riverwood Driveway, Belmore Rd. Riverwood	341433	Road Match	1m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Riverwood Service Station, 345 Belmore Rd. Riverwood	338515	Building Match	18m	South East
MOTOR SERVICE STATIONS-PETROL, OIL, Etc. (M716)	Riverwood Service Station, 345-349 Belmore Rd. Riverwood	341434	Building Match	18m	South East
MOTOR SERVICE STATIONS-PETROL, OIL, Etc. (M716)	Total Riverwood Service Station, 100 Belmore Rd. Riverwood	341552	Building Match	547m	North East
DRY CLEANERS, PRESSERS/DYERS (D710)	Richwear Drycleaning Co., 229 Belmore Rd., Riverwood & Branch	292475	Building Match	548m	South
MOTOR SERVICE STATIONS-PETROL, OIL, Etc. (M716)	B.P. Sunbury Service Station, Cnr. Bonds A Hannans Rds. Riverwood	340809	Road Intersection	623m	East
MOTOR GARAGES & ENGINEERS (M6S6)	BP Sunbury Service Station, Cnr. Bonds & Hannans Rd. Riverwood	337406	Road Intersection	623m	East
MOTOR GARAGES & ENGINEERS (M6S6)	Sams, K. Motors, 45 Davies Rd. PADSTOW	338571	Building Match	773m	South West
MOTOR SERVICE STATIONS-PETROL, OIL, Etc. (M716)	Riverstone Service Station, 189 Belmont Rd. Riverwood	341432	Building Match	777m	South
MOTOR GARAGES & ENGINEERS (M6S6)	Riverstone Service Station, 189 Belmore Rd. Riverwood	338514	Building Match	777m	South
MOTOR GARAGES & ENGINEERS (M6S6)	Tonitto's Steering Service, 71 Belmore Rd. PUNCHBOWL	338736	Building Match	778m	North East
MOTOR GARAGES & ENGINEERS (M6S6)	Saba's, Albert Service Station, Victoria Rd. PUNCHBOWL	338565	Road Match	872m	North
MOTOR GARAGES & ENGINEERS (M6S6)	BP Regatta, Charles St. PUNCHBOWL	337399	Road Match	892m	South East

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

# 1950 Historical Business Directory Records

Riverwood Study Area, Riverwood, NSW 2210



## Historical Business Directories

### Riverwood Study Area, Riverwood, NSW 2210

### 1950 Business Directory Records

Records from the 1950 UBD Business Directory within 150m of the site:

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
FRUITERERS & GREENGROCERS	Abrahams, H. J., Housing Estate, Belmore Rd., Herne Bay	49425	Road Match	1m	East
CAKE SHOPS & PASTRYCOOKS	Bass's Hamburgers (L. Bassan, Propr.), Shop 16, Housing Estate, Belmore Rd., Herne Bay	16406	Road Match	1m	East
HAMBURGER BARS	Bass's Hamburgers (L. Bassan, Propr.), Shop 16, Housing Estate, Belmore Rd., Herne Bay	60450	Road Match	1m	East
MILK BARS & CONFECTIONERS	Brown, A. L., 420b Housing Estate, Belmore Rd., Herne Bay	76410	Road Match	1m	East
FRUITERERS & GREENGROCERS	Brown, A. L., 420b Housing Estate, Belmore Rd., Herne Bay	49675	Road Match	1m	East
FLORISTS-RETAIL	Browning, G., Housing Estate, Belmore Rd., Herne Bay	45803	Road Match	1m	East
DRY CLEANERS, PRESSERS & DYERS	Browning, G., Housing Estate, Belmore Rd., Herne Bay	35142	Road Match	1m	East
LIBRARIES-LENDING	Browning, G., Housing Estate, Belmore Rd., Herne Bay	68541	Road Match	1m	East
KITCHENWARE RETAILERS	Budden, R. J., 203b Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	66991	Road Match	1m	East
GROCERS-RETAIL	Budden, R. J., 203 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	56594	Road Match	1m	East
GROCERS-RETAIL	Central Store, Belmore Rd., Herne Bay	56813	Road Match	1m	East
KITCHENWARE RETAILERS	Community Grocery, 420 Belmore Rd., Herne Bay	66996	Road Match	1m	East
JUSTICES OF THE PEACE	Emmett, R., 420 Housing Commission Estate, Belmore Rd., Herne Bay	66673	Road Match	1m	East
DELICATESSENS & SMALLGOODS DEALERS	Filkins, N. R., Housing Estate, Belmore Rd., Herne Bay	30483	Road Match	1m	East
FISH MERCHANTS-RETAIL	Greens Sea Foods, 204 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	44354	Road Match	1m	East
BOOT & SHOE REPAIRERS	Hanna, S. G., 204 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	10241	Road Match	1m	East
BUTCHERS-RETAIL	Hart's Butchery, Belmore Rd., Herne Bay	13641	Road Match	1m	East
BUTCHERS-RETAIL	Herne Bay Butchery, Belmore Rd., Herne Bay	13686	Road Match	1m	East
PICTURE THEATRES-SUBURBAN	Herne Bay Melody, Belmore Rd., Herne Bay	92811	Road Match	1m	East
CARRIERS & CARTAGE CONTRACTORS	Herne Bay Produce and Carrying, Belmore Rd., Herne Bay	19012	Road Match	1m	East
FUEL MERCHANTS-COAL, COKE & WOOD	Herne Bay Produce and Carrying, Belmore Rd., Herne Bay	51753	Road Match	1m	East
PRODUCE MERCHANTS-GRAIN & SEED-RETAIL	Herne Bay Produce and Carrying, Belmore Rd., Herne Bay	95523	Road Match	1m	East
NEWSPAPERS & PERIODICALS	Kingsgrove Advertiser, Belmore Rd., Herne Bay	88734	Road Match	1m	East
REAL ESTATE AGENTS	Lauff, J., Belmore Rd., Herne Bay	98469	Road Match	1m	East
HAIRDRESSERS (GENT'S) &/OR TOBACCONISTS	McMaster, A., Housing Estate, Belmore Rd., Herne Bay	59790	Road Match	1m	East
DENTISTS	Morris, G. R., Belmore Rd., Herne Bay	32144	Road Match	1m	East
DRAPERS-RETAIL	Murphie, J., 203a Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	33867	Road Match	1m	East
FANCY GOODS RETAILERS	Murphie, J., 203a Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	43390	Road Match	1m	East
TOY DEALERS-RETAIL	Murphie, J., 203a Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	109535	Road Match	1m	East
SCHOOLS-KINDERGARTEN & DAY NURSERY	Nursery School, Housing Estate, Belmore Rd., Herne Bay	100965	Road Match	1m	East
MERCERS & GENT'S OUTFITTERS	Organ, Ken, Belmore Rd., Herne Bay	74553	Road Match	1m	East

Business Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
FRUITERERS & GREENGROCERS	Orizone Milk Bar, Belmore Rd., Herne Bay	50860	Road Match	1m	East
BUTCHERS-RETAIL	Reld, F., 427 Housing Estate, Belmore Rd., Herne Bay	14199	Road Match	1m	East
LAUNDRIES	Revesby Laundry, 102 Housing Estate, Belmore Rd., Herne Bay	67697	Road Match	1m	East
MILK BARS & CONFECTIONERS	Rolfe, B. E. and W. G., Housing Estate, Belmore Rd., Herne Bay	77290	Road Match	1m	East
MILK BARS & CONFECTIONERS	Rolfe, Mrs. B. E., Belmore Rd., Herne Bay	77292	Road Match	1m	East
BEAUTY SALONS &/OR LADIES' HAIRDRESSERS	Simons, W., Housing Estate, Belmore Rd., Herne Bay	7799	Road Match	1m	East
ELECTRICAL CONTRACTORS &/OR ELECTRICIANS	A. and A. Electrical Service, 10 Killara Ave., Herne Bay	37317	Premise Match	8m	South East
MOTOR SERVICE STATIONS-PETROL, Etc.	Herne Bay Service Station, Killara Ave and Belmore Rd., Herne Bay	86054	Road Intersection	35m	South East
MILK BARS & CONFECTIONERS	Riverview Store (H. J. Underwood), Belmore Rd. and Coleridge St., Herne Bay	77279	Road Intersection	120m	South East
MIXED BUSINESSES & GENERAL STORES	Riverview Store (H. J. Underwood, Propr.), Belmore Rd. and Coleridge St., Herne Bay	80872	Road Intersection	120m	South East
MIXED BUSINESSES & GENERAL STORES	Underwood, H. J., Coleridge St. and Belmore Rd., Herne Bay	81165	Road Intersection	120m	South East
RADIO SALES &/OR SERVICEMEN	Mason, J. M., 27 Coleridge St., Herne Bay	97415	Premise Match	150m	South East
CLOTHING MFRS. &/OR WHOLESALERS LADIES' MANTLES	Bitel, M., Building 258, Herne Bay	23833	Suburb/Area Match	-	-
RUSTIC MANUFACTURERS &/OR MOULDERS	Chandler, W. G. and Son, Building 258, Essex Rd., Herne Bay	99916	Suburb/Area Match	-	-
TOOL MAKERS	Chandler, W. G. and Son, Building 258, Essex Rd., Herne Bay	109085	Suburb/Area Match	-	-
WASTE PRODUCT MERCHANTS	Light and Lopata, Textile Wastes Bldg., 301 Herne Bay	112424	Suburb/Area Match	-	-
TEXTILE WASTE MANUFACTURERS	Light, Charles and Co., Building 301, Herne Bay	108149	Suburb/Area Match	-	-
SHEET METAL WORKERS	Wah, L. K., Building 258, Essex Rd., Herne Bay	101839	Suburb/Area Match	-	-
SHEET METAL WORKERS	Advance Sheet Metal Co., Building 258 (Essex Rd.), Herne Bay	101629	Suburb/Area Match	-	-

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## 1950 Business Directory Drycleaners & Service Stations

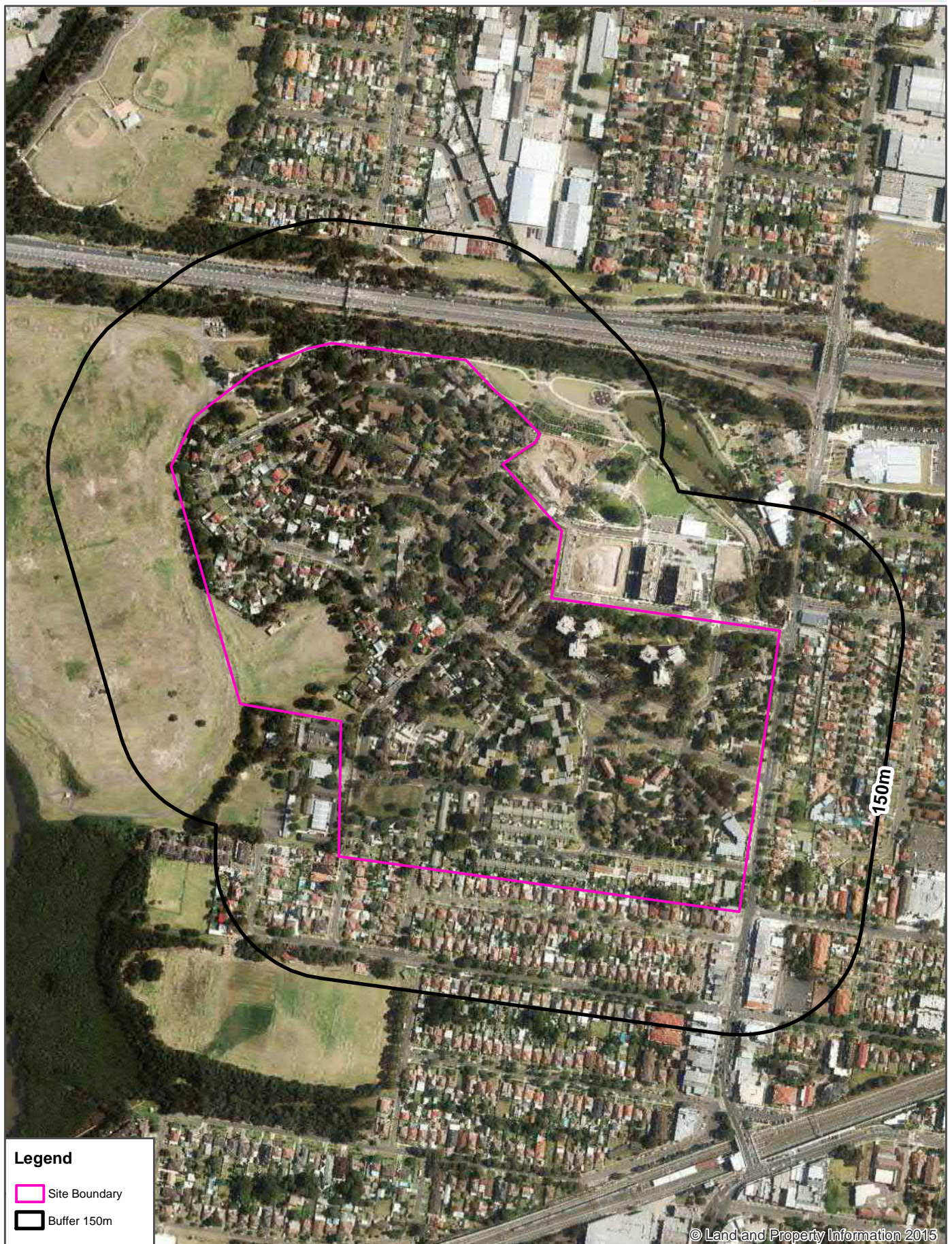
Drycleaners, Motor Garages & Service Stations from the 1950 UBD Business Directory within 1km of the site:

Activity	Organisation & Premise	Ref No.	Location Confidence	Distance	Direction
DRY CLEANERS, PRESSERS & DYERS	Browning, G., Housing Estate, Belmore Rd., Herne Bay	35142	Road Match	1m	East
MOTOR SERVICE STATIONS-PETROL, Etc.	Herne Bay Service Station, Killara Ave and Belmore Rd., Herne Bay	86054	Road Intersection	35m	South East
DRY CLEANERS, PRESSERS & DYERS	Mills, A., Turner St., Herne Bay	35531	Road Match	650m	South

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

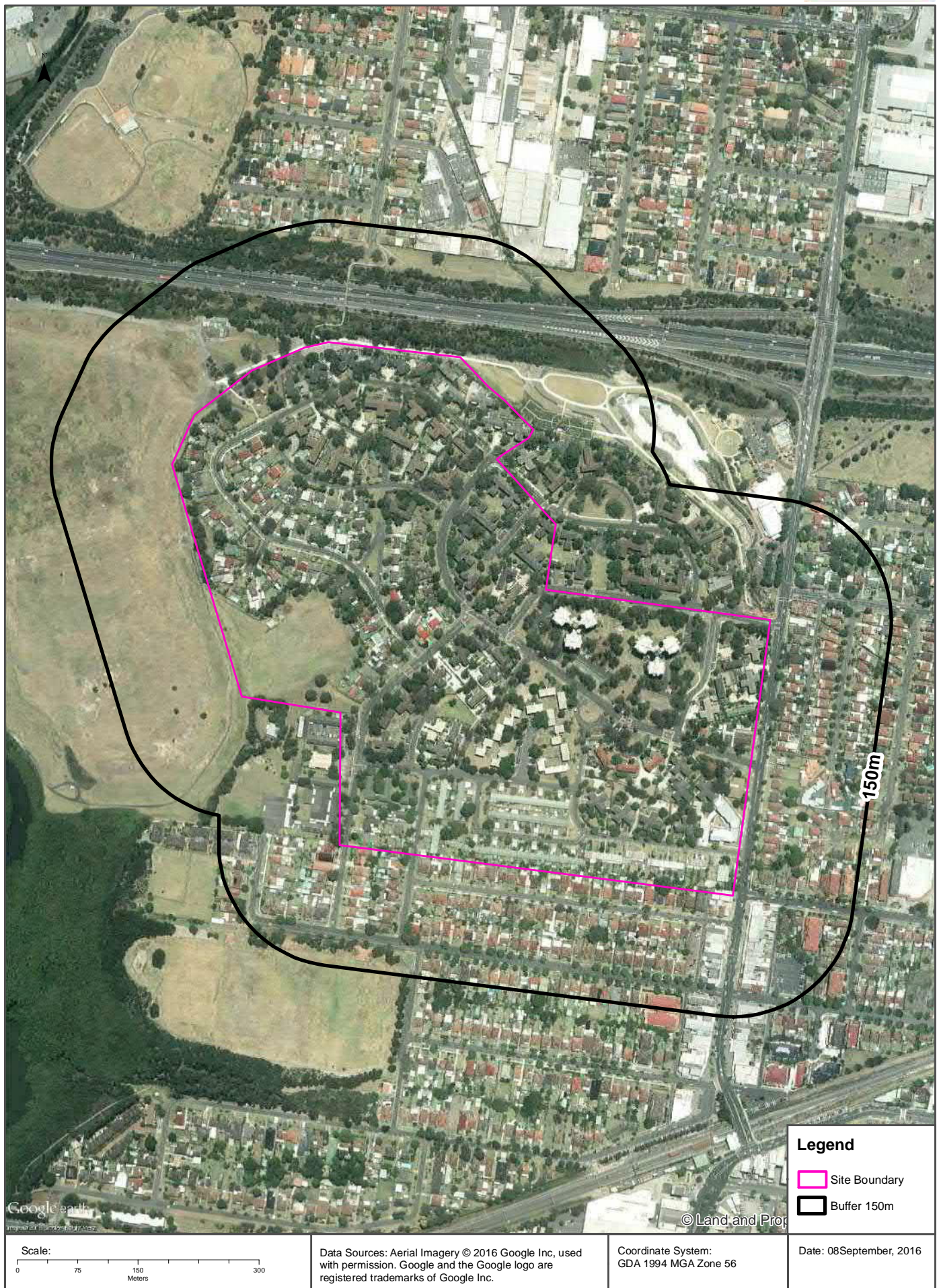
# Aerial Imagery 2014

Riverwood Study Area, Riverwood, NSW 2210



# Aerial Imagery 2009

Riverwood Study Area, Riverwood, NSW 2210



Google earth  
Imagery © 2009 Google Inc.

© Land and Prop

## Legend

- Site Boundary
- Buffer 150m

Scale:

0 75 150 300  
Meters

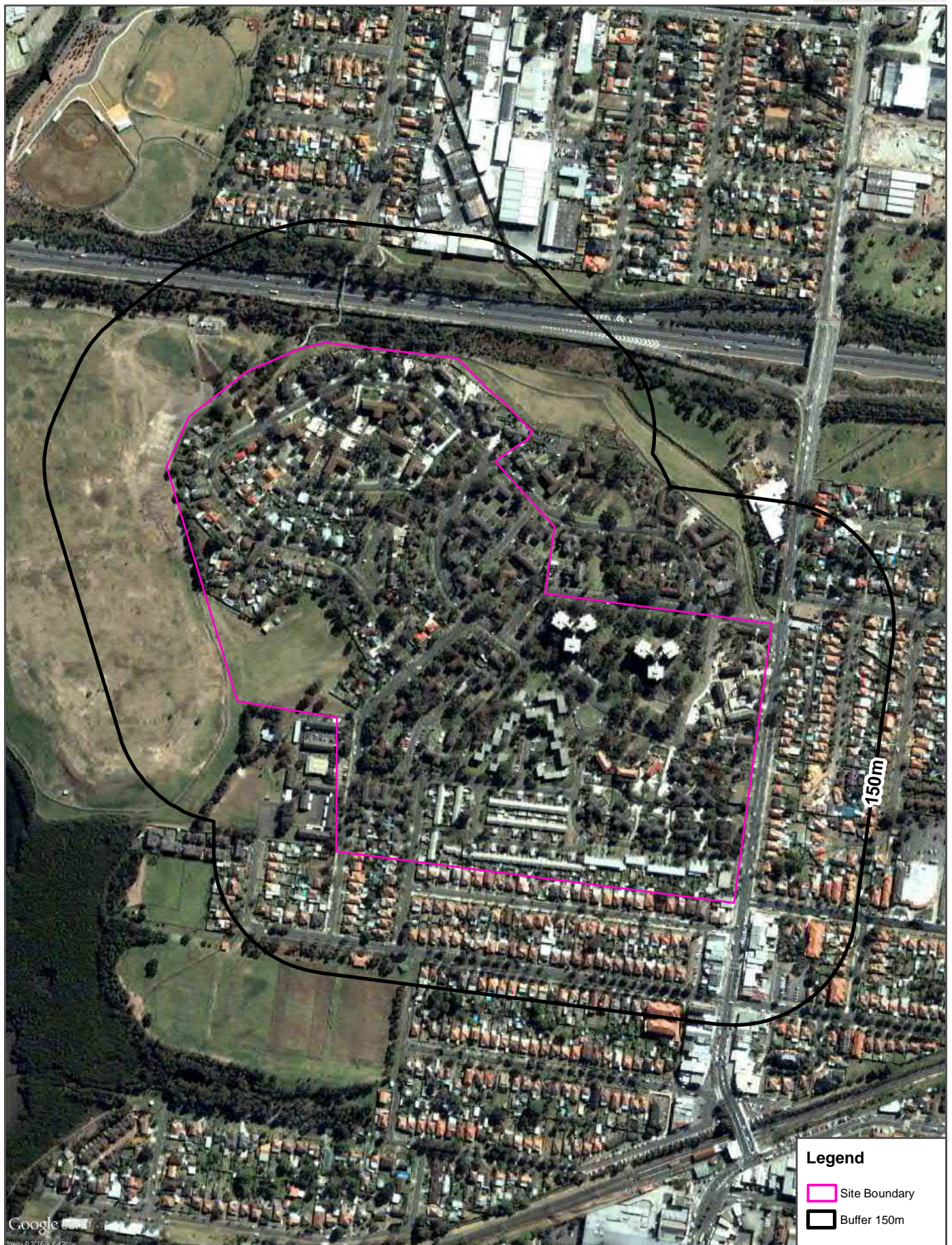
Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 08 September, 2016

# Aerial Imagery 2003

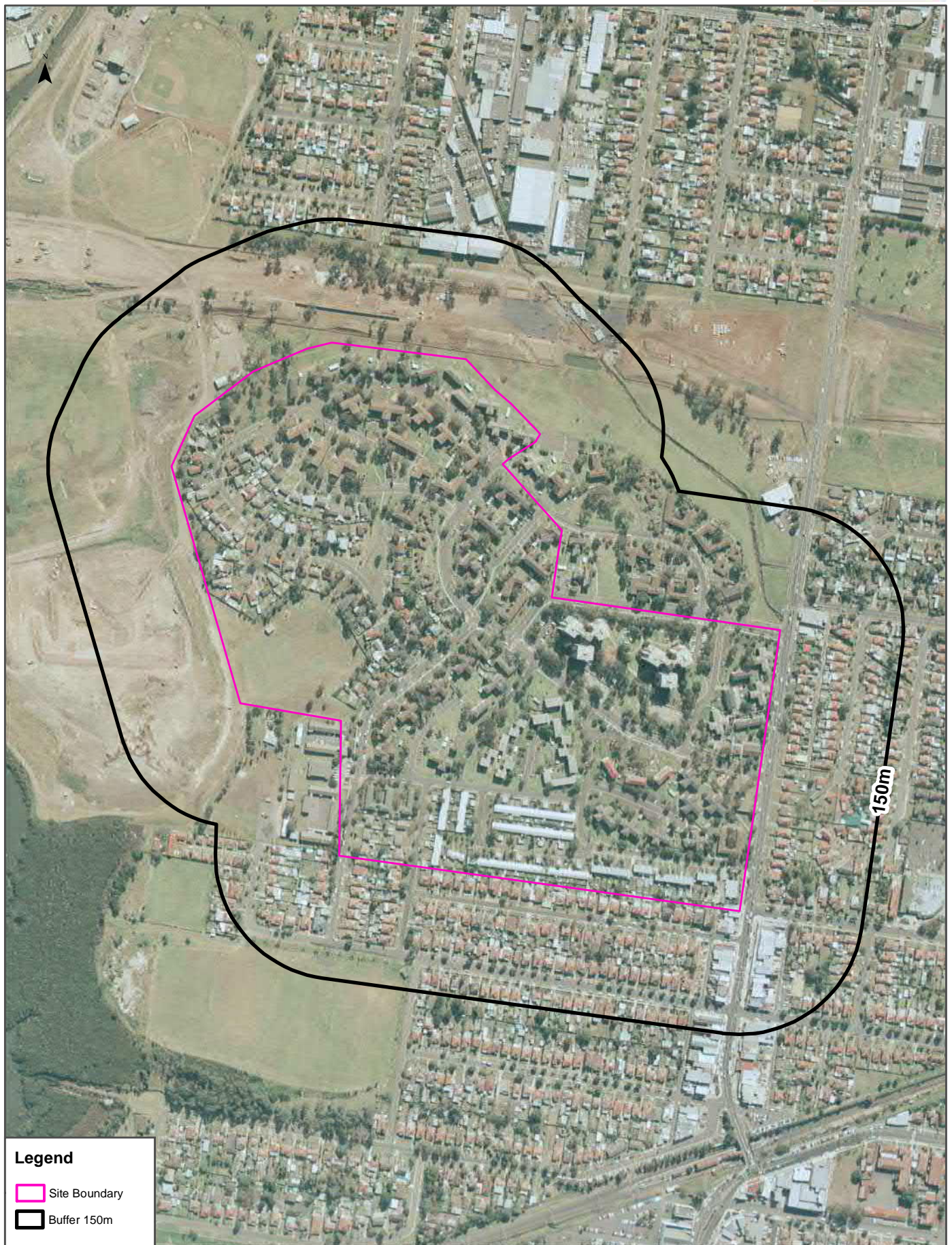
Riverwood Study Area, Riverwood, NSW 2210



<p>Scale:</p> <p>0 75 150 300 Meters</p>	<p>Data Sources: Aerial Imagery © 2016 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 08 September, 2016</p>
--	--	--	---------------------------------

## Aerial Imagery 1991

Riverwood Study Area, Riverwood, NSW 2210



### Legend

- Site Boundary
- Buffer 150m

Scale:

0 75 150 300  
Meters

Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 08 September 2016



## Aerial Imagery 1970

Riverwood Study Area, Riverwood, NSW 2210



## Aerial Imagery 1965

Riverwood Study Area, Riverwood, NSW 2210



## Aerial Imagery 1961

Riverwood Study Area, Riverwood, NSW 2210



### Legend

- Site Boundary
- Buffer 150m

Scale:

0 75 150 300  
Meters

**RUN 39**  
**25.6.61**



**9.200'A.S**  
**209.74 M.M**

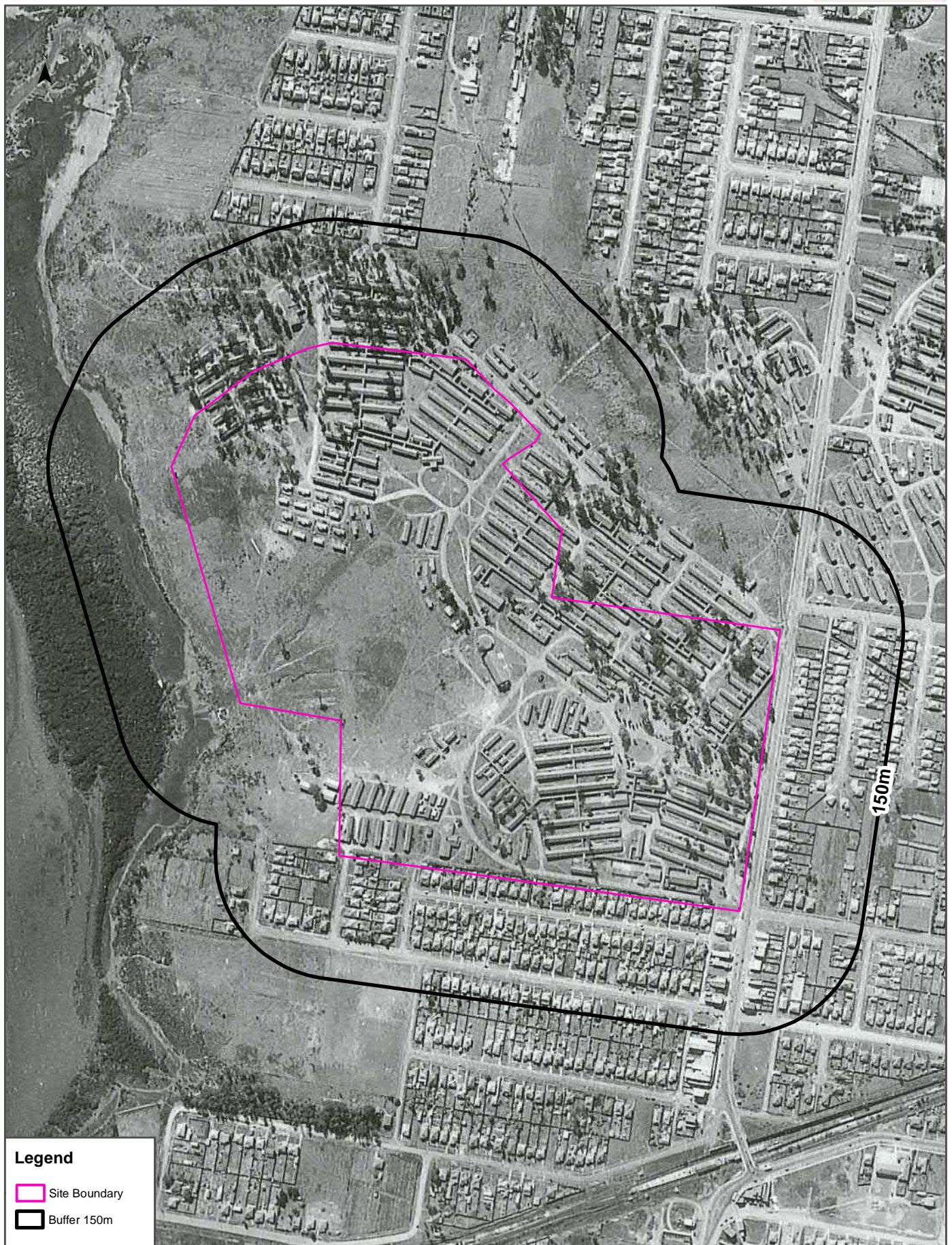
Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 08 September 2016

## Aerial Imagery 1955

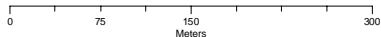
Riverwood Study Area, Riverwood, NSW 2210



### Legend

- Site Boundary
- Buffer 150m

Scale:



Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 08 September 2016

## Aerial Imagery 1943

Riverwood Study Area, Riverwood, NSW 2210



Scale:  
0 75 150 300  
Meters

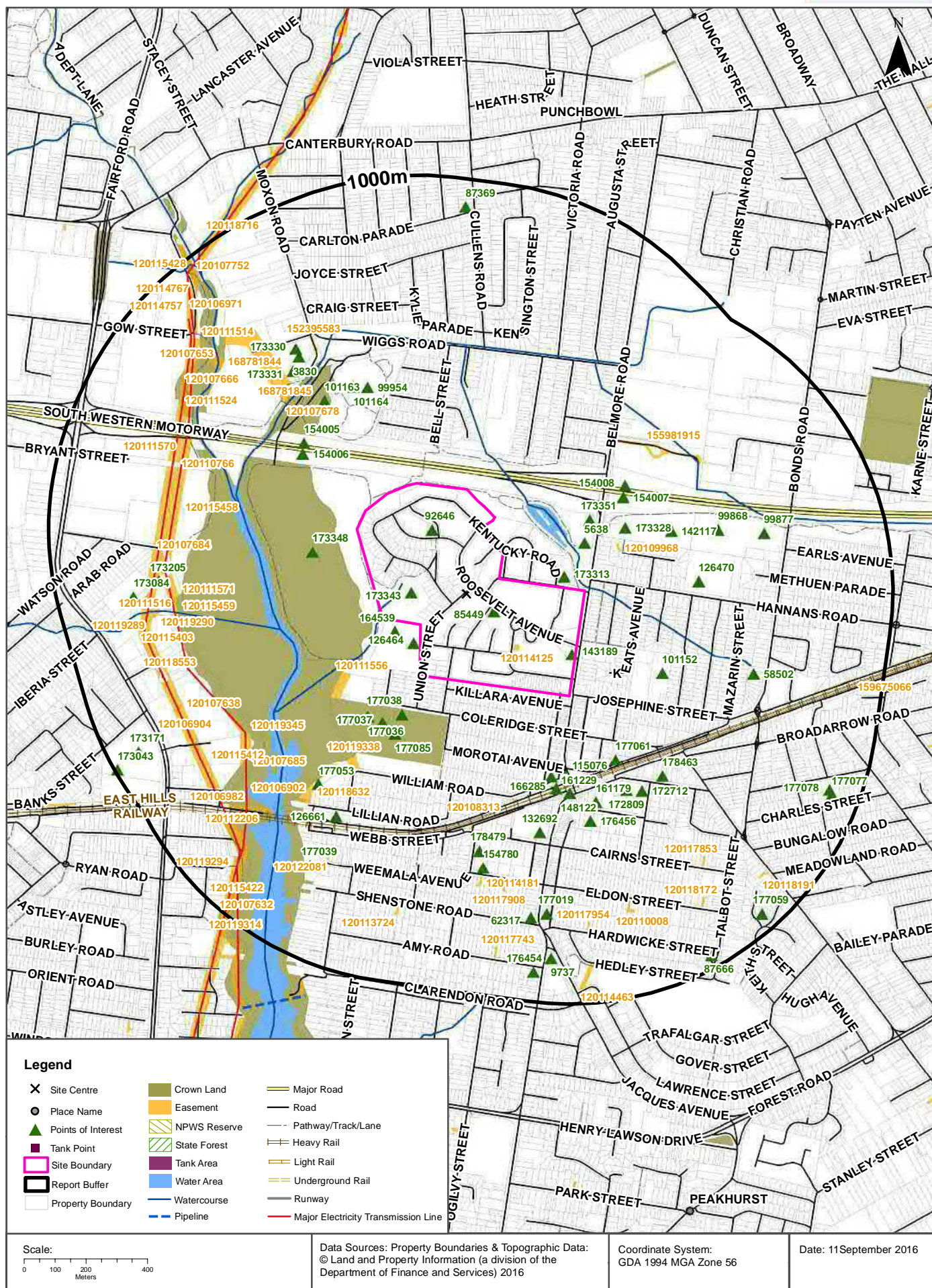
Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 September 2016

# Topographic Features

Riverwood Study Area, Riverwood, NSW 2210



# Topographic Features

## Riverwood Study Area, Riverwood, NSW 2210

### Points of Interest

What Points of Interest exist within the report buffer?

Map Id	Feature Type	Label	Distance	Direction
85449	Park	Park	0m	Onsite
92646	Park	RIVERWOOD PEACE PARK	0m	Onsite
143189	Library	RIVERWOOD LIBRARY	0m	Onsite
173343	Park	KENTUCKY ROAD RESERVE	0m	Onsite
126464	Primary School	RIVERWOOD PUBLIC SCHOOL	20m	South West
164539	Preschool	RIVERWOOD PUBLIC SCHOOL PRESCHOOL	35m	South West
173313	Community Facility	RIVERWOOD SENIOR CITIZEN'S CENTRE	35m	East
177038	Park	Park	140m	South West
5638	Community Facility	RIVERWOOD COMMUNITY CENTRE	154m	North East
173348	Park	SALT PAN CREEK WETLANDS	158m	West
177037	Sports Field	FOOTBALL FIELD	195m	South West
177085	Park	RIVERWOOD PARK	205m	South West
177036	Park	DOG OFF-LEASH AREA	215m	South West
173351	Sports Court	SKATE PARK	230m	North East
115076	Suburb	RIVERWOOD	236m	South East
173328	Sports Centre	MORRIS IEMMA INDOOR SPORTS CENTRE	244m	North East
177061	Park	PHILLIP STREET RESERVE	256m	South East
161229	Club	RIVERWOOD SPORTS AND REC CLUB	268m	South East
154006	Roadside Emergency Telephone	6	274m	North West
101152	Sports Field	BOWLING GREENS	288m	East
154005	Roadside Emergency Telephone	5	297m	North West
166285	Railway Station	RIVERWOOD RAILWAY STATION	304m	South East
148122	Transport Interchange	RIVERWOOD BUS INTERCHANGE	316m	South East
154007	Roadside Emergency Telephone	4	328m	North East
142117	Park	ROTARY PARK	342m	East
99954	Sports Field	MCLAUGHLIN OVAL	343m	North West
161179	Club	CLUB RIVERS RIVERWOOD LEGION AND COMMUNITY CLUB	356m	South East
172809	Primary School	ST JOSEPH'S CATHOLIC PRIMARY SCHOOL	357m	South East
101164	Sports Field	BASEBALL FIELD	363m	North West
101163	Sports Field	BASEBALL FIELD	364m	North West
154008	Roadside Emergency Telephone	3	365m	North East
126470	Primary School	HANNANS ROAD PUBLIC SCHOOL	371m	East
172712	Place Of Worship	CATHOLIC CHURCH	388m	South East

Map Id	Feature Type	Label	Distance	Direction
178463	Park	THURLOW STREET RESERVE	398m	South East
176456	Place Of Worship	ST ANDREWS CHURCH	412m	South East
132692	Post Office	RIVERWOOD POST OFFICE	451m	South
99868	Sports Field	LANCE HUTCHINSON OVAL	476m	East
177053	Park	LILLIAN ROAD RESERVE	482m	South West
173331	Sports Court	TENNIS COURTS	502m	North West
3830	Club	CANTERBURY BANKSTOWN TENNIS AND BOWLS CLUB	528m	North West
126661	Primary School	SOUTHSIDE MONTESSORI SCHOOL	532m	South West
178479	Park	KEPPEL AVENUE RESERVE	538m	South
173330	Sports Field	BOWLING GREENS	556m	North West
58502	Place Of Worship	CHRISTADELPHIAN CHURCH	581m	East
154780	Medical Centre	RIVERWOOD EARLY CHILDHOOD HEALTH CENTRE	591m	South
99877	Sports Field	BLAND OVAL	611m	East
173205	Sports Field	STUART STREET RESERVE	663m	West
177019	Place Of Worship	RIVERWOOD PRESBYTERIAN CHURCH	711m	South
177039	Park	BASIL STREET RESERVE	712m	South West
62317	Police Station	RIVERWOOD POLICE STATION	730m	South
173084	Sports Field	SOCCER	757m	West
9737	Fire Station	RIVERWOOD FIRE STATION	853m	South
177078	Park	PLAYGROUND	897m	South East
173171	Sports Field	PADSTOW PARK	902m	South West
176454	Place Of Worship	HURSTVILLE/RIVERWOOD CHINESE BAPTIST CHURCH	905m	South
87369	Park	STELL RESERVE	909m	North
177077	Park	CHARLES RESERVE	910m	South East
177059	Park	OLEANDER RESERVE	944m	South East
87666	Park	Park	958m	South East
173043	Picnic Area	PLAYGROUND	991m	South West

Topographic Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Topographic Features

### Riverwood Study Area, Riverwood, NSW 2210

#### Tanks (Areas)

What are the Tank Areas located within the report buffer?

Map Id	Tank Type	Status	Name	Capture Method	Feature Currency	Distance	Direction
N/A	No records in buffer						

#### Tanks (Points)

What are the Tank Points located within the report buffer?

Map Id	Tank Type	Status	Name	Capture Method	Feature Currency	Distance	Direction
N/A	No records in buffer						

Tanks Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

#### Easements

What Easements exist within the report buffer?

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120114125	Primary	Undefined		0m	Onsite
120109968	Primary	Undefined		172m	East
120111556	Primary	Undefined		211m	South West
120119338	Primary	Undefined		333m	South West
159675066	Primary	Easement for Access		356m	East
120108313	Primary	Undefined	Variable	356m	East
168781845	Primary	Electricity	6m	413m	North West
120107678	Primary	Undefined		438m	North West
155981915	Primary	Right of way	Variable	462m	North East
120118632	Primary	Undefined		496m	South West
152395583	Primary	Right of way	variable width	516m	North West
120106902	Primary	Undefined		527m	South West
120112206	Primary	Undefined		572m	South West
120107685	Primary	Undefined		573m	South West
120119345	Primary	Undefined		573m	South West
120115458	Primary	Undefined		579m	West
120111570	Primary	Undefined		590m	North West
120119344	Primary	Undefined		600m	West
120110766	Primary	Undefined		609m	West

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120111571	Primary	Undefined		616m	West
120111524	Primary	Undefined		619m	North West
120114181	Primary	Undefined		624m	South
120107684	Primary	Undefined		626m	West
120117908	Primary	Undefined		626m	South
120115459	Primary	Undefined		630m	West
120118694	Primary	Undefined		635m	West
120111523	Primary	Undefined		635m	West
120122081	Primary	Undefined		642m	South West
120107653	Primary	Undefined		649m	North West
168781844	Primary	Electricity	30m	657m	North West
120111515	Primary	Undefined		666m	West
120110869	Primary	Undefined		678m	West
120117853	Primary	Undefined		679m	South East
120119290	Primary	Undefined		684m	West
120110008	Primary	Undefined		694m	South East
120107638	Primary	Undefined		708m	South West
120106904	Primary	Undefined		708m	West
120119289	Primary	Undefined		716m	West
120115412	Primary	Undefined		720m	South West
120111516	Primary	Undefined		725m	West
120107666	Primary	Undefined		731m	North West
120117954	Primary	Undefined		737m	South
120106982	Primary	Undefined		738m	South West
120111514	Primary	Undefined		745m	North West
120118553	Primary	Undefined		745m	West
120113724	Primary	Undefined		749m	South
120115403	Primary	Undefined		753m	West
120119314	Primary	Undefined		763m	South West
120118172	Primary	Undefined		785m	South East
120106971	Primary	Undefined		794m	North West
120114757	Primary	Undefined		815m	North West
120119294	Primary	Undefined		830m	South West
120117743	Primary	Undefined		842m	South
120118191	Primary	Undefined		851m	South East
120114463	Primary	Undefined		875m	South
120114767	Primary	Undefined		885m	North West
120115428	Primary	Undefined		895m	North West
120107632	Primary	Undefined		898m	South West
120115422	Primary	Undefined		949m	South West

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120107752	Primary	Undefined		954m	North West
120118716	Primary	Undefined		961m	North West

Easements Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## State Forest

What State Forest exist within the report buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the report buffer?

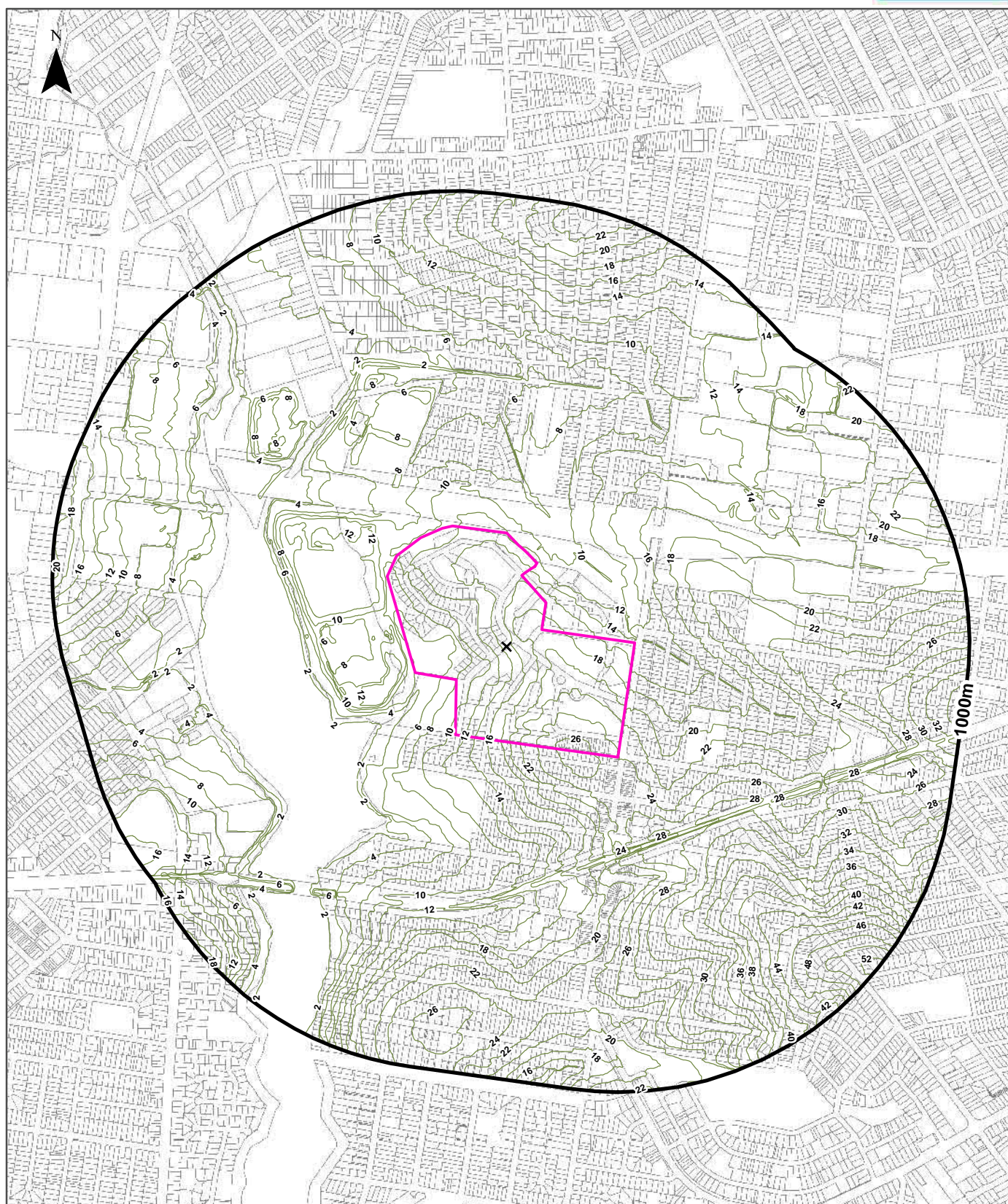
Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Elevation Contours (m AHD)

Riverwood Study Area, Riverwood, NSW 2210



## Legend

- ✕ Site Centre
- Elevation Contour (m AHD)
- Site Boundary
- Report Buffer
- Property Boundary

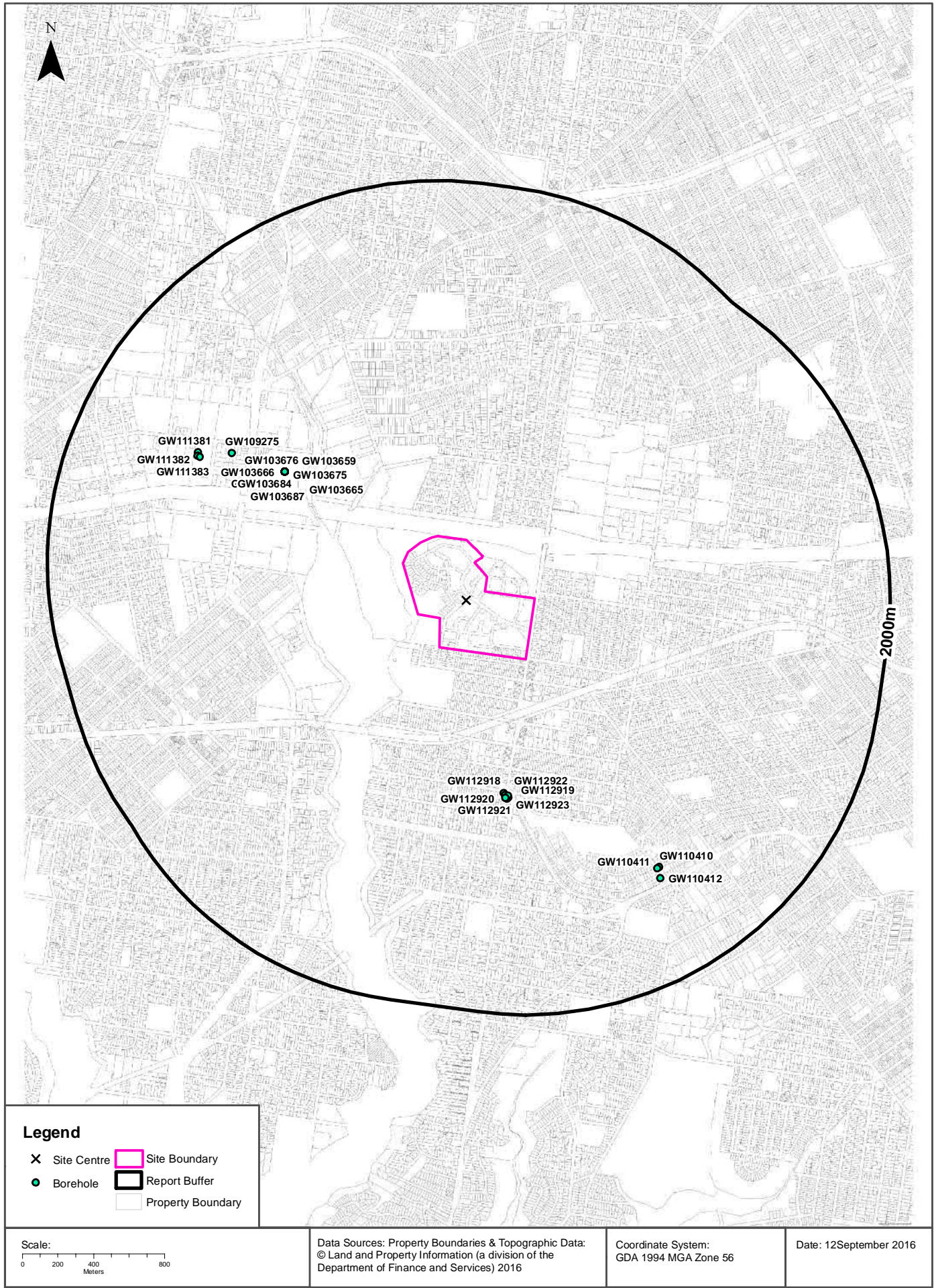
Accuracy & Currency: This contour data can be up to 0.4 of the contour interval out in height and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source photography such as buildings, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening thirty years since the original contour capture.

Scale:  
0 100 200 400  
Meters

Data Sources: Property Boundaries & Topographic Data:  
© Land and Property Information (a division of the  
Department of Finance and Services) 2016

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 September 2016



# Hydrogeology & Groundwater

Riverwood Study Area, Riverwood, NSW 2210

## Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive aquifers of low to moderate productivity

Description of aquifers within the report buffer:

Description
Porous, extensive aquifers of low to moderate productivity

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Groundwater Boreholes

Boreholes within the report buffer:

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW112918	10BL604602	Bore	Private	Monitoring	SOILCHECK PTY LTD	14/04/2011	4.00	4.00		0.80			763m	South
GW112919	10BL604602	Bore	Private	Monitoring	SOILCHECK PTY LTD	14/04/2011	4.00	4.00		0.80			772m	South
GW112922	10BL604602	Bore	Private	Monitoring	SOILCHECK PTY LTD	13/04/2011	4.00	4.00		0.80			774m	South
GW112923	10BL604602	Bore	Private	Monitoring	SOILCHECK PTY LTD	14/04/2011	4.00	4.00		0.80			785m	South
GW112920	10BL604602	Bore	Private	Monitoring	SOILCHECK PTY LTD	14/04/2011	4.00	4.00					788m	South
GW112921	10BL604602	Bore	Private	Monitoring	SOILCHECK PTY LTD	13/04/2011	4.00	4.00					793m	South
GW103667	10BL160057	Bore		Monitoring	Handex	01/11/2000	4.50	4.50					825m	North West
GW103677	10BL160057	Bore	Private	Monitoring	Handex	27/11/2000	4.50	4.50					825m	North West
GW103661	10BL160057	Bore		Monitoring	Handex	03/11/2000	4.30	4.30					825m	North West
GW103671	10BL160057	Bore		Monitoring	Handex	31/10/2000	5.10	5.10					825m	North West
GW103684	10BL160057	Bore		Monitoring	Handex	02/11/2000	6.00	6.00					825m	North West
GW103663	10BL160057	Bore		Monitoring	Handex	03/11/2000	4.80	4.80					825m	North West
GW103683	10BL160057	Bore		Monitoring	Handex	08/11/2000	7.00	7.00					825m	North West
GW103674	10BL160057	Bore		Monitoring	Handex	13/11/2000	5.90	5.90					825m	North West
GW103681	10BL160057	Bore		Monitoring	Handex	06/11/2000	4.00	4.70					825m	North West
GW103670	10BL160057	Bore		Monitoring	Handex	06/11/2000	0.50	0.50					825m	North West
GW103662	10BL160057	Bore		Monitoring	Handex	03/11/2000	4.40	4.40					825m	North West
GW103664	10BL160057	Bore		Monitoring	Handex	02/11/2000	4.70	4.70					825m	North West
GW103669	10BL160057	Bore		Monitoring	Handex	06/11/2000	4.80	4.80					825m	North West

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW103672	10BL160057	Bore		Monitoring	Handex	30/10/2000	4.50	4.50					825m	North West
GW103679	10BL160057	Bore		Monitoring	Handex	01/11/2000	5.00	5.50					825m	North West
GW103682	10BL160057	Bore		Monitoring	Handex	01/11/2000	6.00	6.00					825m	North West
GW103689	10BL160057	Bore		Monitoring	Handex	27/11/2000	3.50	3.50					825m	North West
GW103657	10BL160057	Bore		Monitoring	Handex	06/11/2000	3.30	3.30					825m	North West
GW103673	10BL160057	Bore		Monitoring	Handex	30/10/2000	4.30	4.30					825m	North West
GW103658	10BL160057	Bore		Monitoring	Handex	03/11/2000	2.00	2.00					825m	North West
GW103668	10BL160057	Bore		Monitoring	Handex	27/11/2000	3.90	3.90					825m	North West
GW103665	10BL160057	Bore		Monitoring	Handex	02/11/2000	4.70	4.70					825m	North West
GW103675	10BL160057	Bore		Monitoring	Handex	13/11/2000	5.60	5.60					825m	North West
GW103685	10BL160057	Bore		Monitoring	Handex	02/11/2000	5.00	6.00					825m	North West
GW103676	10BL160057	Bore		Monitoring	Handex	13/11/2000	5.60	5.60					825m	North West
GW103687	10BL160057	Bore		Monitoring	Handex	02/11/2000	4.40	4.40					825m	North West
GW103666	10BL160057	Bore		Monitoring	Handex	01/11/2000	4.50	4.50					825m	North West
GW103680	10BL160057	Bore		Monitoring	Handex	01/11/2000	5.00	5.50					825m	North West
GW103678	10BL160057	Bore		Monitoring	Handex	31/10/2000	4.30	6.00					825m	North West
GW103690	10BL160057	Bore		Monitoring	Handex	06/11/2000	3.40	3.40					825m	North West
GW103660	10BL160057	Bore		Monitoring	Handex	03/11/2000	4.70	4.70					825m	North West
GW103688	10BL160057	Bore		Monitoring	Handex	27/11/2000	3.60	3.60					825m	North West
GW103659	10BL160057	Bore		Monitoring	Handex	03/01/2000	1.00	1.00					825m	North West
GW109275	10BL164763, 10BL602504, 10WA109531	Spear	Private	Industrial		27/08/2008	7.00			6.00	1.000		1135m	North West
GW111383	10BL604471	Bore	Private	Monitoring	SGA ENVIRONME NTAL	27/01/2011	6.10	6.10	19520	2.45			1286m	North West
GW111382	10BL604471	Bore	Private	Monitoring	SGA ENVIRONME NTAL	27/01/2011	7.00	7.00	1425	4.49			1299m	North West
GW111381	10BL604471	Bore	Private	Monitoring	SGA ENVIRONME NTAL	27/01/2011	4.50	4.50	1172	1.40			1306m	North West
GW110410	10BL602863	Well	Local Govt	Monitoring	Macquarie Drilling	03/02/2009	7.00	7.00	5441				1391m	South East
GW110411	10BL602863	Well	Local Govt	Monitoring	Macquarie Drilling	03/02/2009	6.50	6.50	5564	1.68			1391m	South East
GW110412	10BL602863	Well	Private	Monitoring	Macquarie Drilling	03/02/2009	8.80	8.80	8106	3.30			1447m	South East

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Hydrogeology & Groundwater

## Riverwood Study Area, Riverwood, NSW 2210

### Driller's Logs

Drill log data relevant to the boreholes within the report buffer:

Groundwater No	Drillers Log	Distance	Direction
GW103657	0.00m-1.00m CONCRETE SURFACE, DRY GREY CLAY 1.00m-2.70m CLAY SILT: DRY, FINE GREY SILT 2.70m-3.30m SHALE: WEATHERED, CLAY	825m	North West
GW103658	0.00m-0.70m FILL/GRAVEL 0.70m-1.50m CLAY: GREY, PLASTIC, FIRM 1.50m-2.00m SHALE: DRY	825m	North West
GW103659	0.00m-1.00m SAND: DAMP WET STENG HCO	825m	North West
GW103660	0.00m-0.70m FILL, BRICKS, SAND, CLAY 0.70m-1.50m CLAY: SILT/PLASTIC, GREY/GRAVEL 1.50m-2.50m CLAY: GREY/GRAVEL 2.50m-3.40m SHALES: DRY, GREY TO BROWN 3.40m-3.50m GRAVEL: MOIST/WET/LOOSE 3.50m-4.70m SHALES: FRIABLE/DRY	825m	North West
GW103661	0.00m-0.10m CONCRETE 0.10m-1.10m CLAYS: FIRM, PLASTIC, GREY 1.10m-1.50m CLAY: GREY, HOMOGENEOUS, PLASTIC 1.50m-1.60m GRAVELS: RED/BROWN, WEATHERED 1.60m-2.40m CLAYS: INTERBEDDED AND SHALE 2.40m-4.30m SHALES: DRY, FRIABLE, LOOSE	825m	North West
GW103662	0.00m-0.70m CLAY: BROWN/GREY, FUNNY COLOUR 0.70m-1.40m CLAY: GREY/RED, FIRM, PLASTIC 1.40m-1.50m GRAVEL (SHALE): COARSE, LOOSE, DRY 1.50m-2.30m CLAY: GREY, HOMOGENEOUS, PLASTIC 2.30m-2.60m SHALE: ORANGE/GREY, DRY, FRIABLE 2.60m-3.00m GRAVELS: ORANGE/GREY, FRIABLE 3.00m-4.40m SHALE: DRY, GREY, FRIABLE	825m	North West
GW103663	0.00m-0.50m FILL CLAYS: BLACK/BROWN, FIRM 0.50m-1.10m CLAYS: GREY/BROWN 1.10m-1.20m GRAVELS (SHALE) WEATHERED, HARD/RED 1.20m-1.50m CLAYS: GREY WITH OCC RED 1.50m-4.80m SHALES: WITH CLAYS, DRY, FIRM, FRIABLE	825m	North West
GW103664	0.00m-1.00m CLAY: STIFF, FIRM LOW PLASTICITY 1.00m-2.00m CLAY: STIFF, RED, GREY 2.00m-4.70m SHALE, RED AND DRY GREY SHALES	825m	North West
GW103665	0.00m-1.00m SILT/CLAYS, GREY/BROWN, FAINT HCO 1.00m-1.80m CLAYS, STIFF, DRY, GREY 1.80m-2.20m SHALE, DRY, RED, FRIABLE 2.20m-2.40m CLAY, PLASTICITY-FIRM, GREY, DRY 2.40m-4.70m SHALES, DRY FIRM/HARD, GREY TO RED	825m	North West
GW103666	0.00m-0.35m CLAY, RED, GREY, STICKY, PLASTICITY 0.35m-1.30m CLAY, GREY/GREEN, FIRM 1.30m-2.00m SHALES INTERBEDDED (FIRM, DRY) CLAY 2.00m-4.50m SHALES: FIRM, DRY, GREY	825m	North West
GW103667	0.00m-2.30m CLAY/STILT, BROWN/RED/GREY, STIFF, FIRM 2.30m-2.50m SHALE, FIRM, GREY/RED, DRY, FRIABLE 2.50m-2.70m CLAY FIRM, GREY, HOMOGENEOUS 2.70m-2.90m SHALE, DRY, GREY/BROWN, FIRM 2.90m-4.00m CLAY, VERY MOIST, GREY 4.00m-4.50m CLAY, VERY MOIST, STICKY, GREY, GREEN	825m	North West
GW103668	0.00m-1.00m GRAVEL MIXED, MOTTLED GREY/CLAY 1.00m-2.70m CLAY: LIGHT GREY 2.70m-3.60m SHALE, GREY, BROWN, WEATHERED 3.60m-3.90m CLAY, BROWN, FIRM AND WET	825m	North West
GW103669	0.00m-1.50m SAND/CLAY, MINOR GRAVEL, BROWN 1.50m-3.70m CLAY, PALE YELLOW/BROWN, FIRM 3.70m-4.80m SHALE WEATHERED, CLAY, RED/GREY	825m	North West
GW103670	0.00m-0.50m FILL MATERIAL, GRAVEL, SAND,	825m	North West

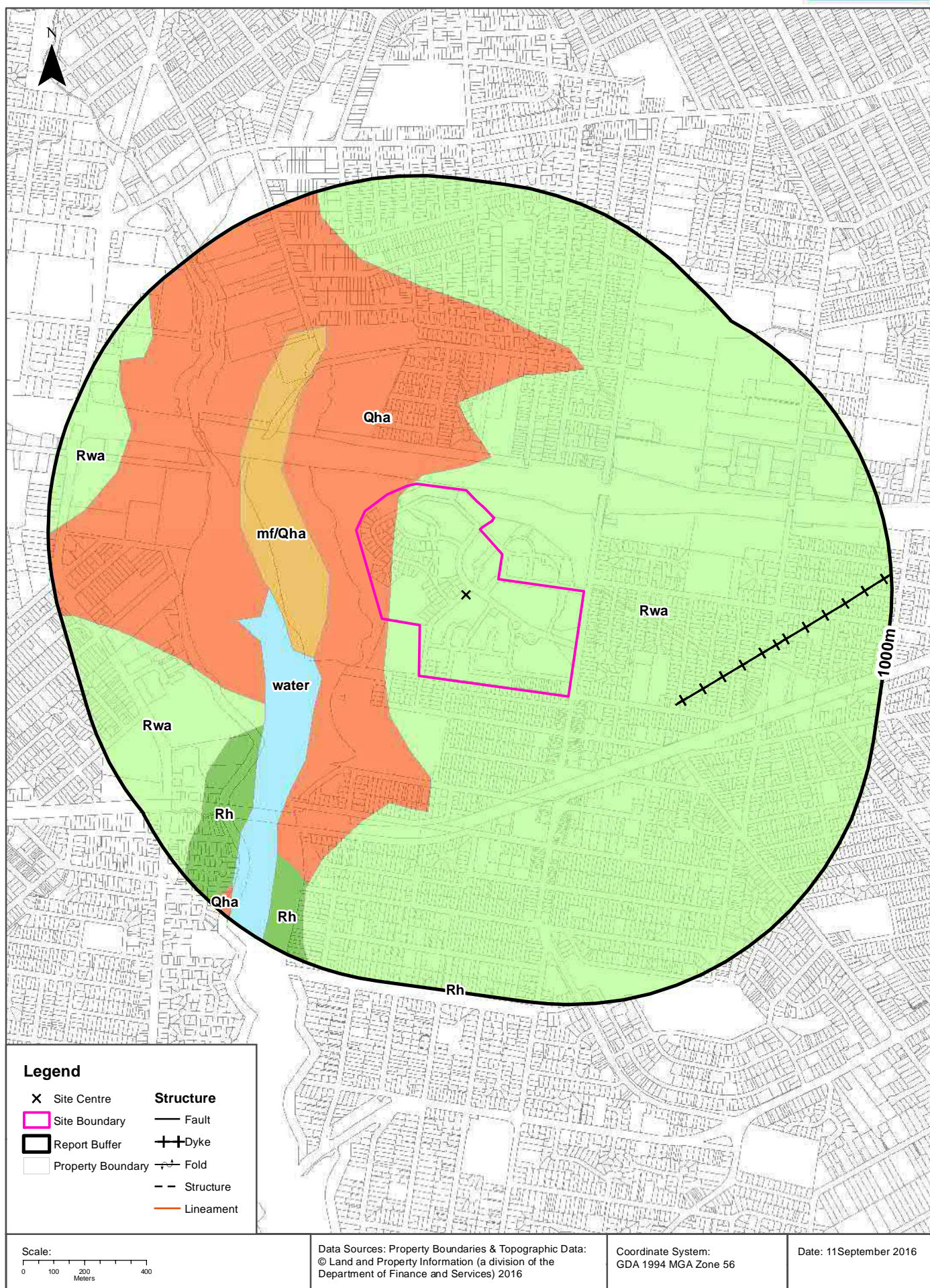
Groundwater No	Drillers Log	Distance	Direction
GW103671	0.00m-0.17m FILL SAND MATERIAL,BLACK /GREY/CLAY 0.17m-0.25m CLAY,SOFT-FIRM,LIGHT GREY, 0.25m-1.30m CLAY/SILT,BROWN/BLACK 1.30m-1.50m CLAY/SILT,STICKY,RED 1.50m-1.70m SHALES,LOOSE,FRIABLE,FIRM 1.70m-2.10m CLAY SITICKY,MOIST,MINOR SAND 2.10m-3.00m SILTS/CLAY,GREY,BROWN,FIRM 3.00m-3.30m SHALE,RED FIRM 3.30m-5.10m SILT/CLAY,GREYT WITH RED MOTTLES.	825m	North West
GW103672	0.00m-0.13m SAND,MEDIUM GRAINED,LOOSE 0.13m-0.75m CLAY,FIRM,TIGHT,GREY/BROWN/IRON 0.75m-2.50m SILT/SANDY,BROWN,MEDIUM,PLASTICITY 2.50m-2.55m CLAY,GREY/WHITE,FIRM,LOW,DRY 2.55m-3.30m SHALE,DRY,GREY,BROWN,FRIABLE 3.30m-3.50m CLAY GREY/GREEN,FIRM 3.50m-4.50m SHALES,DRY,FIRM,DRY,FRIABLE	825m	North West
GW103673	0.00m-0.13m SAND,FILL 0.13m-1.00m CLAY,SILT 1.00m-1.50m CLAY/SILT,FRIABLE,LOOSE 1.50m-2.00m CLAY GREY/WHITE 2.00m-2.20m SHALE FRAGMENTS 2.20m-2.50m CLAY/SANDY SILT 2.50m-2.60m SHALES:BROWN/GREY/CLAY 2.60m-3.60m CLAY/SILT/GREY/GREEN 3.60m-4.30m SHALES,GREY,DRY,FIRM,FRIABLE	825m	North West
GW103674	0.00m-0.20m FILL,GRAVEL/CLAY,TRACE SAND 0.20m-1.50m CLAY,MOTTLED BROWN AND RED 1.50m-2.30m IRONSTONE,PALE,YELLOW,ORANGE/RED 2.30m-4.00m CLAY,MASSIVE MOTTLED LIGHT GREY/YELLOW 4.00m-5.90m CLAY,WEATHERED SHALE	825m	North West
GW103675	0.00m-0.15m FILL,FRAGMENTS OF SHALE,SAND 0.15m-1.00m CLAY,MOTTLED TEXTURE 1.00m-2.00m CLAY,STIFF,DARK BROWN 2.00m-2.80m CLAY,PLAE BROWN/IRONSTONE 2.80m-4.00m CLAY,MASSIVE TEXTURE,IRONSTONE 4.00m-5.60m CLAY,GREY,FRIABLE/WEATHERED SHALE	825m	North West
GW103676	0.00m-0.60m Fill,soil/sand,gravel,glass 0.60m-1.00m Clay,pale and dark brown,minor ironstone 1.00m-4.20m clay,bright yellow,small paches of ironstone 4.20m-5.60m clay/weathered shale,brown to grey	825m	North West
GW103677	0.00m-1.00m FILL,DARK GREY,LOOSE,GRAVEL,SAND 1.00m-1.70m FILL,DARK GREY,GRAVEL,SAND,MOIST 1.70m-3.10m CLAY,LIGHT GREY,PLASTIC, DRY 3.10m-4.50m SATURATED WATER,NO H/C ODOUR	825m	North West
GW103678	0.00m-1.00m FILL MATERIAL,SILT,GRAVELS/CLAYS 1.00m-2.20m CLAY/SILT,FIRM,RED/GREY 2.20m-4.00m SILT/CLAYS,GREY/BLACK,STIFF 4.00m-5.60m STIFF CLAYS,GREY GREEN WITH OCC. 5.60m-6.00m SHALES,HARD,FRIABLE	825m	North West
GW103679	0.00m-1.30m SAND,CONCRETE,FRAGMENT,FILL 1.30m-1.80m SAND,BLACK/GREY,FINE-MEDIUM GRAINED 1.80m-3.40m CLAY,SILT,PLASTIC,GREY/GREEN 3.40m-3.50m SAND MOIST,BLACK,FINE GRAINED 3.50m-5.00m CLAY/SILT,BROWN/GREY WITH OCC RED 5.00m-5.50m CLAYS WITH GRAVEL FRAGMENTS STIFF,FIRM	825m	North West
GW103680	0.00m-1.30m SAND,CONCRETE,FRAGMENT,FILL 1.30m-1.80m SAND BLACK/GREY,FINE,MEDIUM GRAINED 1.80m-3.40m CLAY,SILT,PLASTIC,GREY/GREEN 3.40m-3.50m SAND MOIS,BLACK,FINE GRAINED 3.50m-5.00m CLAY/SILT,BROWN/GREY WITH OCC RED 5.00m-5.50m CLAYS WITH GRAVEL FRAGMENTS	825m	North West
GW103681	0.00m-2.00m FILL,SAND,MEDIUM TO FINE GRAIN 2.00m-2.40m CLAY,FIRM,GREY/BROWN COLOUR 2.40m-3.40m FILL,BRICK MATERIAL,LOOSE,RED 3.40m-4.70m CLAY,FIRM,GREY/BROWN	825m	North West
GW103682	0.00m-1.10m SAND FILL 1.10m-1.40m CLAY,FILL MATERIAL,CONCRETE,GRAVEL 1.40m-1.50m FILL CONTINUES(ASHY) SILTY SAND 1.50m-2.00m CLAY,STIFF,MODERATE PLASTICITY 2.00m-2.20m SANDY SILT,WET,BROWN 2.20m-5.20m CLAY,GREY WITH RED MOTTLES 5.20m-5.40m COARSE GRAVELS,RED STAINING 5.40m-6.00m CLAYS,GREY,PLASTIC-FIRM	825m	North West
GW103683	0.00m-1.00m SOIL,BLACK WITH GRAVEL 1.00m-2.40m FILL,BRICK,SOME GRAVEL 2.40m-4.40m FILL COARSE/MEDIUM GRAINED 4.40m-5.00m FILL, CLAY,DRY BANDS 5.00m-6.00m CLAY VERY STIFF 6.00m-7.00m SANDSTONE,COARSE GRAINED	825m	North West

Groundwater No	Drillers Log	Distance	Direction
GW103684	0.00m-1.40m FILL MATERIAL,LOSS DRY CLAYS,SILTS 1.40m-2.00m CLAYS,GREY/YELLOW,FIRM 2.00m-4.40m CLAYS,STICKY,BROWN/GREY,PLASTIC 4.40m-4.90m SHALES, WEATHERED,RED,DAMP 4.90m-5.20m CLAY,FIRM GREY 5.20m-6.00m SHALES: RED,WEATHERED,MOIST	825m	North West
GW103685	0.00m-1.60m SILTS,CLAYS,GRAVELS,DRY BROWN 1.60m-3.20m CLAY/SILT,FIRM,DRY,ORANGE/BROWN 3.20m-4.40m CLAY,SOFT,PLASTIC,GREY/BROWN 4.40m-5.40m CLAYS,STICKY WITH ROCK/SHALE 5.40m-6.00m SHALES,OCHRE COLOUR,WET	825m	North West
GW103687	0.00m-1.00m SILT,CLAYS 1.00m-1.20m SHALE 1.20m-3.60m CLAY 3.60m-4.40m CLAY WITH SHALES	825m	North West
GW103688	0.00m-1.00m CLAY 1.00m-1.50m CLAY,SLIGHTLY SANDY 1.50m-3.60m CLAY,LIGHT GREY COLOUR	825m	North West
GW103689	0.00m-0.50m FILL,MOIST GREY CLAY 0.50m-1.60m CLAY,SOFT-FIRM 1.60m-2.60m CLAY SILT,STICKY,RED 2.60m-3.00m SAND,QUARTZ SAND 3.00m-3.40m CLAY, VERY STIFF 3.40m-3.50m SHALE AT BASE,WEATHERED BEDROCK	825m	North West
GW103690	0.00m-0.70m FILL WET,LARGE GRAVEL 0.70m-1.00m CLAY,LIGHT GREY 1.00m-1.40m SHALE,LIGHT GREY 1.40m-2.30m CLAY,LIGHT GREY,MOIST 2.30m-3.40m CLAY/SILT	825m	North West
GW111383	0.00m-0.25m CONCRETE 0.25m-0.90m FILL,BROKEN SILTY SANDY CLAY 0.90m-1.70m NATURAL FIRM BROWN SILTY CLAY 1.70m-2.10m STIFF GREY CLAY WITH IRONSTONE NODULES 2.10m-3.50m SHALE GREY MODERATE STRENGTH 3.50m-5.00m SHALE HIGH STRENGTH 5.00m-6.10m MODERATELY	1286m	North West
GW111382	0.00m-0.20m CONCRETE 0.20m-0.50m FILL,BROWN SILTY CLAY WITH GRAVEL 0.50m-2.10m NATURAL FIRM BROWN SILTY CLAY 2.10m-2.77m STIFF GREY CLAY WITH IRONSTONE NODULES 2.77m-4.00m STIFF TO HARD GREY CLAY 4.00m-4.30m GREY MODERATE STRENGHT W/SHALE 4.30m-5.20m GREY MODERATE STRENGHT W/SHALE 5.20m-6.40m GREY HIGH STRENGHT SHALE 6.40m-7.00m MODERATELY	1299m	North West
GW111381	0.00m-0.24m CONCRETE 0.24m-1.20m FILL,FIRM BROWN AND SILTY CLAY 1.20m-1.80m FILL,FIRM BROWN AND SILTY CLAY 1.80m-2.30m NATURAL FIRM BROWN AND SILTY CLAY 2.30m-3.90m CLAY,STIFF GREY 3.90m-4.50m BEDROCK GREY SLATE	1306m	North West
GW110410	0.00m-0.20m TOPSOIL 0.20m-3.50m CLAY 3.50m-7.00m SHALE	1391m	South East
GW110411	0.00m-0.20m TOPSOIL 0.20m-4.00m CLAY 4.00m-6.50m SHALE	1391m	South East
GW110412	0.00m-0.50m TOPSOIL 0.50m-3.00m CLAY 3.00m-8.80m SHALE	1447m	South East

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Geology 1:100,000

Riverwood Study Area, Riverwood, NSW 2210



## Geology

Riverwood Study Area, Riverwood, NSW 2210

### Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	1:100,000
Rwa	Black to dark grey shale and laminate	Ashfield Shale	Wianamatta Group		Triassic		Sydney	1:100,000

What are the Geological Units within the report buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
mf/Qha	Man-made fill (dredged estuarine sand and mud, demolition rubble, industrial and household waste) overlying silty to peaty quartz sand, silt and clay with ferruginous & humic cementation in places and common shell layers				Quaternary		Sydney	1:100,000
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	1:100,000
Rh	Medium to coarse grained quartz sandstone, very minor shale and laminate lenses				Triassic		Sydney	1:100,000
Rwa	Black to dark grey shale and laminate	Ashfield Shale	Wianamatta Group		Triassic		Sydney	1:100,000
water							Sydney	1:100,000

### Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Map Sheet	Dataset
No features				1:100,000

What are the Geological Structures within the report buffer?

Feature	Name	Description	Map Sheet	Dataset
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000

Geological Data Source : NSW Department of Industry, Resources & Energy

© State of New South Wales through the NSW Department of Industry, Resources & Energy

## Naturally Occurring Asbestos Potential

Riverwood Study Area, Riverwood, NSW 2210

## Naturally Occurring Asbestos Potential

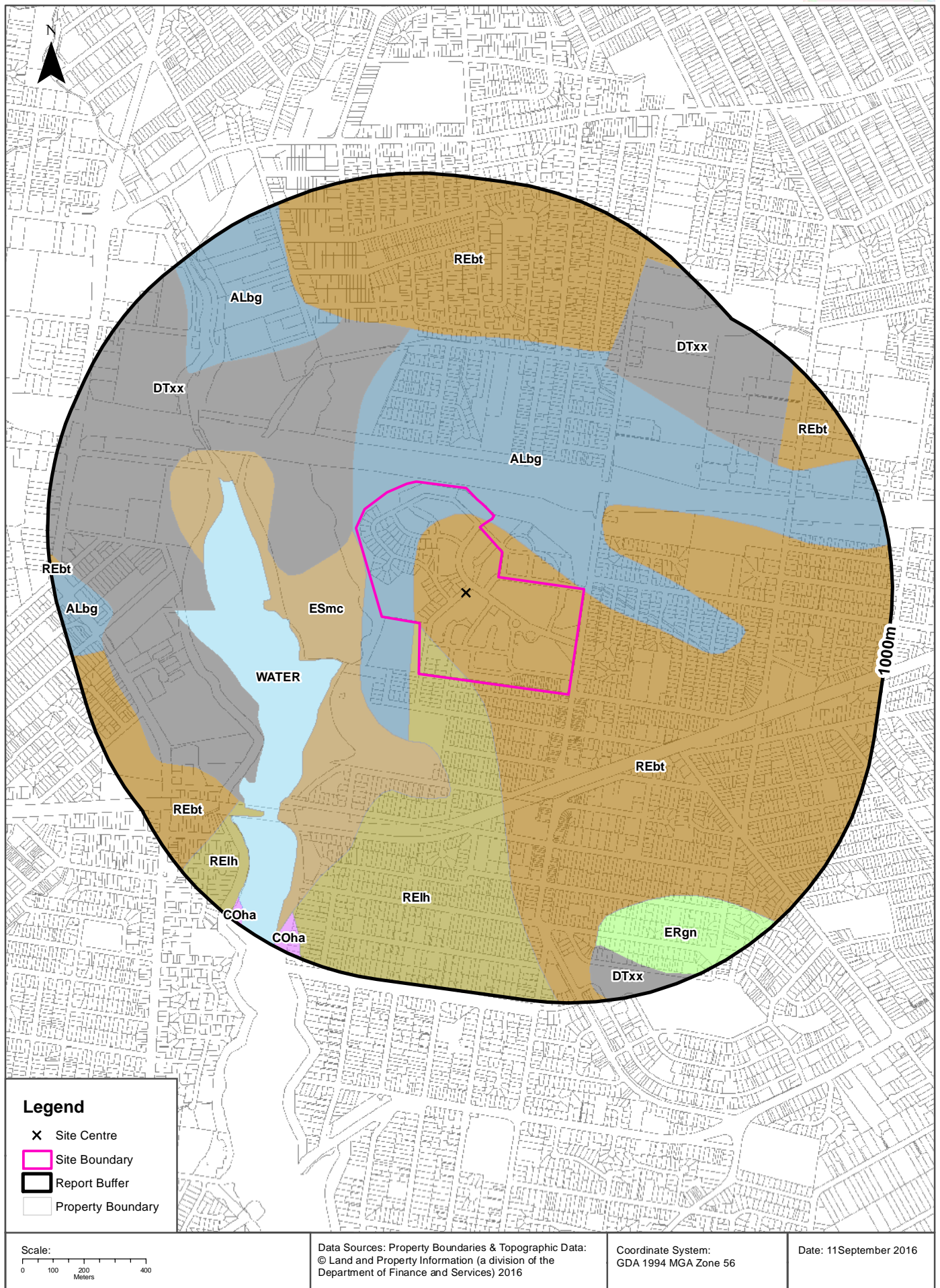
Naturally Occurring Asbestos Potential within the report buffer?

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

# Soil Landscapes

Riverwood Study Area, Riverwood, NSW 2210



## Soils

### Riverwood Study Area, Riverwood, NSW 2210

## Soil Landscapes

What are the onsite Soil Landscapes?

Soil Code	Name	Group	Process	Map Sheet	Scale
ALbg	BIRRONG		ALLUVIAL	Sydney	1:100,000
REbt	BLACKTOWN		RESIDUAL	Sydney	1:100,000
RElh	LUCAS HEIGHTS		RESIDUAL	Sydney	1:100,000

What are the Soil Landscapes within the report buffer?

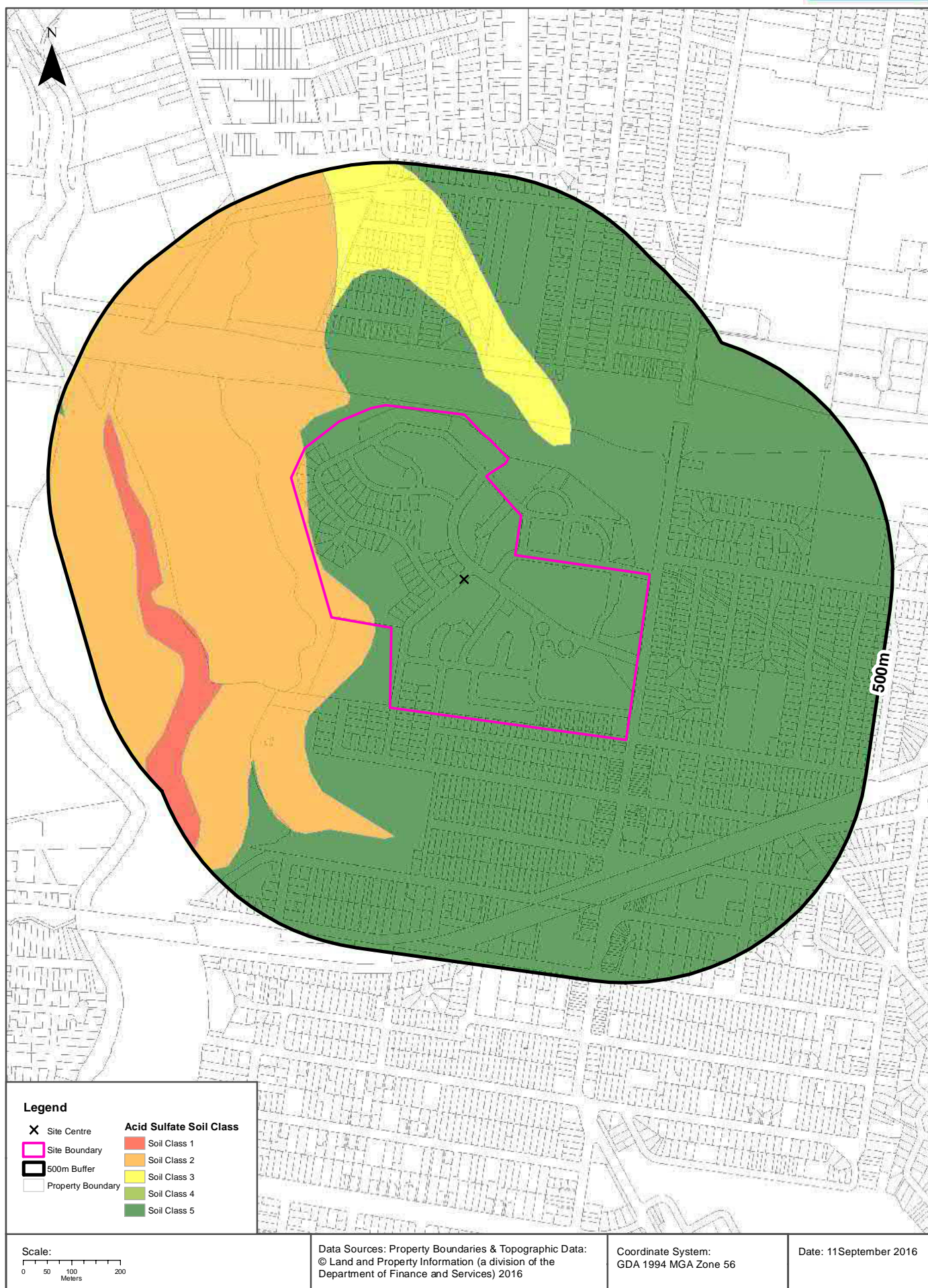
Soil Code	Name	Group	Process	Map Sheet	Scale
ALbg	BIRRONG		ALLUVIAL	Sydney	1:100,000
COha	HAWKESBURY		COLLUVIAL	Sydney	1:100,000
DTxx	DISTURBED TERRAIN		DISTURBED TERRAIN	Sydney	1:100,000
ERgn	GLENORIE		EROSIONAL	Sydney	1:100,000
ESmc	MANGROVE CREEK		ESTUARINE	Sydney	1:100,000
REbt	BLACKTOWN		RESIDUAL	Sydney	1:100,000
RElh	LUCAS HEIGHTS		RESIDUAL	Sydney	1:100,000
WATER	WATER		WATER	Sydney	1:100,000

Soils Landscapes Data Source : NSW Office of Environment and Heritage

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Acid Sulfate Soils

Riverwood Study Area, Riverwood, NSW 2210



## Acid Sulfate Soils

Riverwood Study Area, Riverwood, NSW 2210

## Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description
2	Works below natural ground surface present an environmental risk; Works by which the watertable is likely to be lowered present an environmental risk

If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	Distance	Direction
N/A			

Acid Sulfate Data Source Accessed 15/07/2016: NSW Crown Copyright - Planning and Environment  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Dryland Salinity

**Riverwood Study Area, Riverwood, NSW 2210**

## Dryland Salinity

Is there Dryland Salinity data onsite?

**No**

Is there Dryland Salinity data within the report buffer?

**No**

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A	N/A	N/A

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

# Mining Subsidence Districts

Riverwood Study Area, Riverwood, NSW 2210

## Mining Subsidence Districts

Mining Subsidence Districts within the report buffer?

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Environmental Zoning

Riverwood Study Area, Riverwood, NSW 2210

### State Environmental Planning Policy Protected Areas

Are there any State Environmental Planning Policy Protected Areas onsite or within the report buffer?

Dataset	Onsite	Within Site Buffer	Distance
SEPP14 - Coastal Wetlands	No	No	N/A
SEPP26 - Littoral Rainforests	No	No	N/A
SEPP71 - Coastal Protection Zone	No	No	N/A

SEPP Protected Areas Data Source: NSW Department of Planning & Environment  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

### State Environmental Planning Policy Major Developments (2005)

State Environmental Planning Policy Major Developments within the report buffer?

Map Id	Feature	Effective Date	Distance	Direction
N/A	No records within buffer			

SEPP Major Development Data Source: NSW Department of Planning & Environment  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

### State Environmental Planning Policy Strategic Land Use Areas

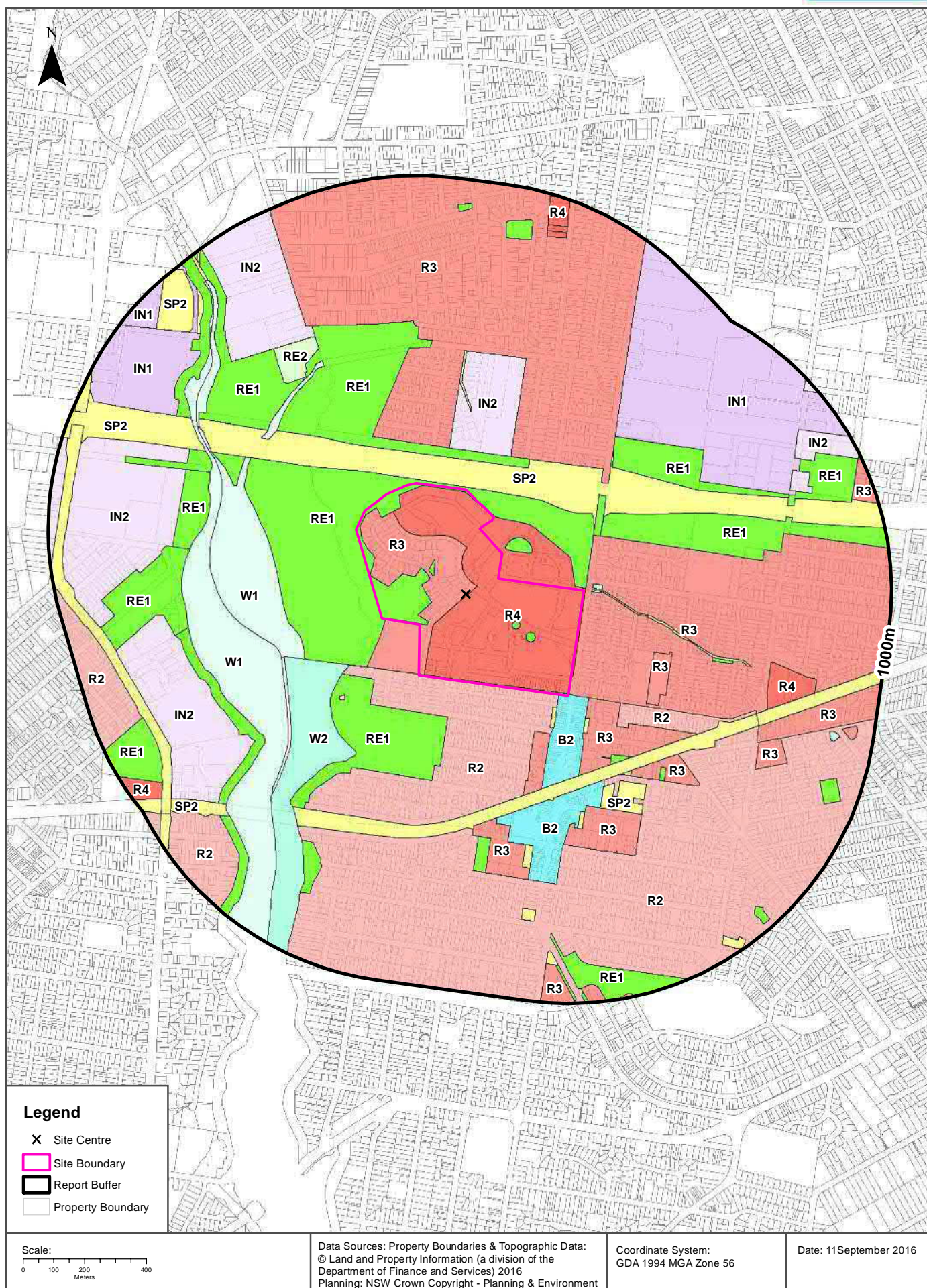
State Environmental Planning Policy Strategic Land Use Areas onsite or within the report buffer?

Strategic Land Use	SEPPNo	Effective Date	Amendment	Amendment Year	Distance	Direction
No records within buffer						

SEPP Strategic Land Use Data Source: NSW Department of Planning & Environment  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# LEP Planning Zones

Riverwood Study Area, Riverwood, NSW 2210



# Local Environmental Plan

Riverwood Study Area, Riverwood, NSW 2210

## Land Zoning

What Local Environmental Plan Land Zones exist within the report buffer?

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R4	High Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		0m	Onsite
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		0m	Onsite
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		0m	Onsite
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		0m	Onsite
B2	Local Centre		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		0m	Onsite
SP2	Infrastructure	Classified Road	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		8m	North East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		18m	North East
B1	Neighbourhood Centre		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		25m	East
SP2	Infrastructure	Drainage	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		26m	East
B1	Neighbourhood Centre		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		28m	East
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		42m	South East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		63m	South East
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		88m	South East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		97m	North West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		118m	South West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		127m	North
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		128m	South East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		129m	North
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		169m	South East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		183m	North East
W2	Recreational Waterways		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		184m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		186m	East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		225m	South East
SP2	Infrastructure	Sewerage System	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		248m	South West
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	05/03/2015	05/03/2015	11/12/2015	Amendment No 6	251m	South East
SP2	Infrastructure	Drainage	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		251m	North
SP2	Infrastructure	Railway	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		255m	South
W1	Natural Waterways		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		271m	West
B2	Local Centre		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		296m	South
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		296m	South East

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Community Purposes	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		304m	South East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		316m	South East
SP2	Infrastructure	Church & Educational Est.	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		316m	South East
W1	Natural Waterways		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		350m	South West
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		362m	South East
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		377m	South East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		379m	South East
W1	Natural Waterways		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		387m	North West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		410m	North West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		413m	North East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		414m	North West
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		424m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		444m	East
RE2	Private Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		461m	North West
IN1	General Industrial		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		472m	North East
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		482m	West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		492m	South
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		496m	South
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		510m	North West
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		541m	South West
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		544m	West
SP2	Infrastructure	Road Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		551m	West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		556m	North West
IN2	Light Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		573m	South West
IN2	Light Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		579m	West
W1	Natural Waterways		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		602m	North West
SP2	Infrastructure	Railways	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		610m	East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		623m	East
R4	High Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		634m	East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		635m	South East
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		640m	North West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		641m	South West
IN1	General Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		686m	North West
SP2	Infrastructure	Emergency Services Facility	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		702m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		717m	East

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		743m	East
SP2	Infrastructure	Rail Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		753m	South West
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		767m	South West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		772m	South East
SP2	Infrastructure	Electricity Transmission or Distribution Network	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		785m	North West
R2	Low Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		793m	South West
IN1	General Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		795m	North West
SP2	Infrastructure	Road Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		803m	West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		807m	North East
SP2	Infrastructure	Electricity Transmission or Distribution Network	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		813m	North West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		828m	North
SP2	Infrastructure	Emergency Services Facility	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		832m	South
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		835m	South West
R2	Low Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		843m	West
B1	Neighbourhood Centre		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		853m	East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		860m	South East
R4	High Density Residential		Canterbury Local Environmental Plan 2012	11/12/2015	11/12/2015	11/12/2015	Amendment No 9	864m	North
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		873m	South
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		876m	South
R4	High Density Residential		Canterbury Local Environmental Plan 2012	05/03/2015	05/03/2015	11/12/2015	Amendment No 6	882m	North
R4	High Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		891m	South West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		891m	North
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		893m	East
R4	High Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		901m	North
SP2	Infrastructure	Drainage	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		907m	North West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		912m	South East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		918m	North East
SP2	Infrastructure	Road Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		924m	South West
SP2	Infrastructure	Rail Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		925m	South West
SP2	Infrastructure	Electricity Transmission	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		926m	South East
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		941m	South
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		941m	South East
R2	Low Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		951m	South West

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		954m	South
SP2	Infrastructure	Road Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		957m	North West
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		958m	South
IN2	Light Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	22/01/2016		962m	West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		964m	North East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		966m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		972m	North West
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		987m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		987m	East
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		988m	South
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		989m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	11/12/2015		989m	East
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		992m	South East
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		994m	South East
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		998m	South East

Local Environment Plan Data Source: NSW Crown Copyright - Planning & Environment  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Minimum Subdivision Lot Size

What are the onsite Local Environmental Plan Minimum Subdivision Lot Sizes?

Symbol	Minimum Lot Size	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
G	460 m2	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	01/01/2013		88

## Maximum Height of Building

What are the onsite Local Environmental Plan Maximum Height of Buildings?

Symbol	Maximum Height of Building	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
L	11.50 m	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	05/03/2015		65
I	8.50 m	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	05/03/2015		22.9

## Local Environmental Plan

Riverwood Study Area, Riverwood, NSW 2210

### Floor Space Ratio

What are the onsite Local Environmental Plan Floor Space Ratios?

Symbol	Floor Space Ratio	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
L	0.90	LEP	01/01/2013	01/01/2013	11/12/2015		65
D	0.50	LEP	01/01/2013	01/01/2013	11/12/2015		22.9
F	0.60	LEP	07/12/2012	07/12/2012	24/07/2015		0.8
T	2.00	LEP	07/12/2012	07/12/2012	24/07/2015		0.1

### Land Application

What are the onsite Local Environmental Plan Land Applications?

Application Type	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
Included	Canterbury Local Environmental Plan 2012	01/01/2013	01/01/2013	01/01/2013		99.06
Included	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	24/07/2015		0.94

### Land Reservation Acquisition

What are the onsite Local Environmental Plan Land Reservation Acquisitions?

Reservation	LEP	Published Date	Commenced Date	Currency Date	Amendment	Comments	Percentage of Site Area
No Data							

Local Environment Plan Data Source: NSW Crown Copyright - Planning & Environment  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Heritage

Riverwood Study Area, Riverwood, NSW 2210

### State Heritage Items

What are the State Heritage Items located within the report buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Planning & Environment

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

### Local Heritage Items

What are the Local Heritage Items located within the report buffer?

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
N/A	No records in buffer								

Heritage Data Source: NSW Crown Copyright - Planning & Environment

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Natural Hazards

Riverwood Study Area, Riverwood, NSW 2210

## Bushfire Prone Land

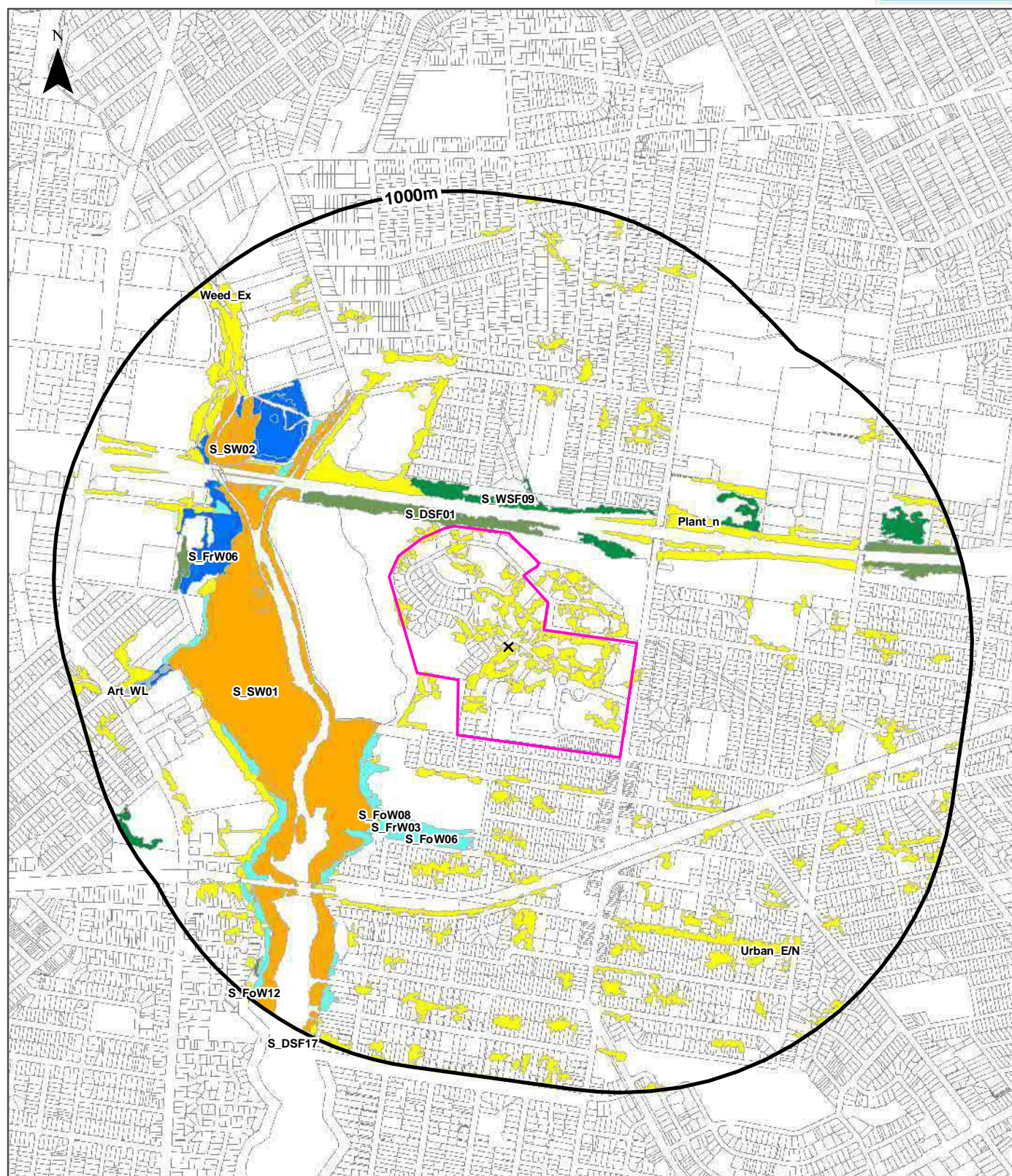
What are the nearest Bushfire Prone Land Categories that exist within the report buffer?

Bushfire Prone Land Category	Distance	Direction
No records within buffer		

Bushfire Prone Land Data Reference - NSW RFS GIS Data Set

# Ecological Constraints - Native Vegetation & RAMSAR Wetlands

Riverwood Study Area, Riverwood, NSW 2210



## Legend

- ✕ Site Centre
- Site Boundary
- Report Buffer
- Property Boundary
- Rainforest
- Wet Sclerophyll Forests
- Dry Sclerophyll Forests
- Forested Wetlands
- Grassy Woodlands
- Heathlands
- Grasslands
- Artificial Wetlands
- Freshwater Wetlands
- Saline Wetlands
- Water
- Other
- RAMSAR Wetlands

Scale:  
0 100 200 400  
Meters

Data Sources: Property Boundaries & Topographic Data:  
© Land and Property Information (a division of the  
Department of Finance and Services) 2016

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 September 2016

## Ecological Constraints

Riverwood Study Area, Riverwood, NSW 2210

### Native Vegetation

What native vegetation exists within the report buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Direction
S_DSF01	S_DSF01: Castlereagh Ironbark Forest	Castlereagh/ Cooks River Ironbark Forest		30: Melaleuca dominant	19: Clearing/Part clearing	4: Very high	S.glomulifera/ E.fibrosa	0m	Onsite
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/ Native	0m	Onsite
S_WSF09	S_WSF09: Sydney Turpentine-Ironbark Forest	Sydney Turpentine Ironbark Forest	Turpentine Ironbark Forest (possible)	13: Dry shrubs and grasses	14: Canopy gaps	3: High	S.glomulifera/ E.fibrosa	73m	North
Plant_n	Plant_n: Plantation (native and/or exotic)			00: Not assessed	00: Not assessed	0: Not assessed	Native or Exotic Plantations	114m	North West
S_SW02	S_SW02: Estuarine Saltmarsh	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh (possible)	00: Not assessed	00: Not assessed	0: Not assessed	S.repens/ S.quinqueflora/ S.virginicus+/- J.krausii	188m	South West
S_SW01	S_SW01: Estuarine Mangrove Forest			00: Not assessed	00: Not assessed	0: Not assessed	Mangroves	191m	South West
S_FoW08	S_FoW08: Estuarine Swamp Oak Forest	Swamp Oak Floodplain Forest		30: Melaleuca dominant	15: Regrowth	1: Low	C.glauca	212m	South West
S_FoW06	S_FoW06: Cumberland Riverflat Forest	River Flat Eucalypt Forest		30: Melaleuca dominant	27: Pittosporum	2: Moderate	A.floribunda/ C.glauca	294m	South
S_FrW03	S_FrW03: Coastal Freshwater Wetland	Freshwater Wetlands on Coastal Floodplains		00: Not assessed	00: Not assessed	0: Not assessed	T.orientalis/ freshwater sedges	319m	South West
S_FrW06	S_FrW06: Estuarine Reedland	Swamp Oak Floodplain Forest		00: Not assessed	00: Not assessed	0: Not assessed	P.australis/ B.junceae	432m	North West
S_FrW06	S_FrW06: Estuarine Reedland	Swamp Oak Floodplain Forest		00: Not assessed	13: Weeds	3: High	P.australis/ B.junceae	432m	North West
Weed_Ex	Weed_Ex: Weeds and Exotics			00: Not assessed	00: Not assessed	0: Not assessed	Exotic Species >90%cover	633m	West
Art_WL	Art_WL: Artificial Wetland			00: Not assessed	00: Not assessed	0: Not assessed	Artificial wetland	704m	West
S_FoW12	S_FoW12: Coastal Swamp Paperbark-Swamp Oak Scrub	Swamp Oak Floodplain Forest		30: Melaleuca dominant	15: Regrowth	1: Low	C.glauca/ M.ericifolia	887m	South West
S_DSF17	S_DSF17: Sydney Hinterland Apple-Blackbutt Gully Forest			17: Pittosporum dominant	24: Urban mixed use	4: Very high	E.pilularis/ E.punctata/ A.costata+/- E.racemosa	996m	South West

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

### RAMSAR Wetlands

What RAMSAR Wetland areas exist within the report buffer?

Map Id	RAMSAR Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

RAMSAR Wetlands Data Source: © Commonwealth of Australia - Department of Environment

## Ecological Constraints

### Riverwood Study Area, Riverwood, NSW 2210

## ATLAS of NSW Wildlife

Endangered & Vulnerable Species on the ATLAS of NSW Wildlife database, within 10km of the site?

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Amphibia	Hylidae	<i>Litoria aurea</i>	Green and Golden Bell Frog	No	Endangered, Protected	Vulnerable
Amphibia	Myobatrachidae	<i>Crinia tinnula</i>	Wallum Froglet	No	Vulnerable, Protected	
Amphibia	Myobatrachidae	<i>Pseudophryne australis</i>	Red-crowned Toadlet	No	Vulnerable, Protected	
Aves	Accipitridae	<i>Circus assimilis</i>	Spotted Harrier	No	Vulnerable, Protected	
Aves	Accipitridae	<i>Hieraaetus morphnoides</i>	Little Eagle	No	Vulnerable, Protected	
Aves	Accipitridae	<i>Lophoictinia isura</i>	Square-tailed Kite	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Accipitridae	<i>Pandion cristatus</i>	Eastern Osprey	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Ardeidae	<i>Botaurus poiciloptilus</i>	Australasian Bittern	No	Endangered, Protected	Endangered
Aves	Ardeidae	<i>Ixobrychus flavicollis</i>	Black Bittern	No	Vulnerable, Protected	
Aves	Artamidae	<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	No	Vulnerable, Protected	
Aves	Burhinidae	<i>Burhinus grallarius</i>	Bush Stone-curlew	No	Endangered, Protected	
Aves	Cacatuidae	<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Cacatuidae	<i>Calyptorhynchus lathamii</i>	Glossy Black-Cockatoo	No	Vulnerable, Protected, Category 2 Sensitive Species	
Aves	Cacatuidae	<i>Lophochroa leadbeateri</i>	Major Mitchell's Cockatoo	No	Vulnerable, Protected, Category 2 Sensitive Species	
Aves	Charadriidae	<i>Charadrius leschenaultii</i>	Greater Sand-plover	No	Vulnerable, Protected	V,C,J,K
Aves	Charadriidae	<i>Charadrius mongolus</i>	Lesser Sand-plover	No	Vulnerable, Protected	E,C,J,K
Aves	Ciconiidae	<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	No	Endangered, Protected	
Aves	Climacteridae	<i>Climacteris picumnus victoriae</i>	Brown Treecreeper (eastern subspecies)	No	Vulnerable, Protected	
Aves	Columbidae	<i>Ptilinopus superbus</i>	Superb Fruit-Dove	No	Vulnerable, Protected	
Aves	Diomedidae	<i>Diomedea exulans</i>	Wandering Albatross	No	Endangered, Protected	E,J
Aves	Haematopodidae	<i>Haematopus fuliginosus</i>	Sooty Oystercatcher	No	Vulnerable, Protected	
Aves	Haematopodidae	<i>Haematopus longirostris</i>	Pied Oystercatcher	No	Endangered, Protected	
Aves	Laridae	<i>Sterna albifrons</i>	Little Tern	No	Endangered, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Meliphagidae	<i>Anthochaera phrygia</i>	Regent Honeyeater	No	Critically Endangered Species, Protected	Critically Endangered
Aves	Meliphagidae	<i>Epthianura albifrons</i>	White-fronted Chat	No	Vulnerable, Protected	
Aves	Meliphagidae	<i>Epthianura albifrons</i>	White-fronted Chat population in the Sydney Metropolitan Catchment Management Area	No	Endangered Population, Vulnerable, Protected	
Aves	Meliphagidae	<i>Melithreptus gularis gularis</i>	Black-chinned Honeyeater (eastern subspecies)	No	Vulnerable, Protected	
Aves	Neosittidae	<i>Daphoenositta chrysoptera</i>	Varied Sittella	No	Vulnerable, Protected	
Aves	Petroicidae	<i>Petroica boodang</i>	Scarlet Robin	No	Vulnerable, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Aves	Petroicidae	<i>Petroica phoenicea</i>	Flame Robin	No	Vulnerable, Protected	
Aves	Petroicidae	<i>Petroica rodinogaster</i>	Pink Robin	No	Vulnerable, Protected	
Aves	Psittacidae	<i>Glossopsitta porphyrocephala</i>	Purple-crowned Lorikeet	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Psittacidae	<i>Glossopsitta pusilla</i>	Little Lorikeet	No	Vulnerable, Protected	
Aves	Psittacidae	<i>Lathamus discolor</i>	Swift Parrot	No	Endangered, Protected, Category 3 Sensitive Species	Critically Endangered
Aves	Psittacidae	<i>Neophema pulchella</i>	Turquoise Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Scolopacidae	<i>Calidris alba</i>	Sanderling	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	<i>Calidris ferruginea</i>	Curlew Sandpiper	No	Endangered, Protected	CE,C,J,K
Aves	Scolopacidae	<i>Calidris tenuirostris</i>	Great Knot	No	Vulnerable, Protected	CE,C,J,K
Aves	Scolopacidae	<i>Limicola falcinellus</i>	Broad-billed Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	<i>Limosa limosa</i>	Black-tailed Godwit	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	<i>Xenus cinereus</i>	Terek Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Strigidae	<i>Ninox strenua</i>	Powerful Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Tytonidae	<i>Tyto novaehollandiae</i>	Masked Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Tytonidae	<i>Tyto tenebricosa</i>	Sooty Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Gastropoda	Camaenidae	<i>Meridolum corneovirens</i>	Cumberland Plain Land Snail	No	Endangered	
Mammalia	Burramyidae	<i>Cercartetus nanus</i>	Eastern Pygmy-possum	No	Vulnerable, Protected	
Mammalia	Dasyuridae	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	No	Vulnerable, Protected	Endangered
Mammalia	Emballonuridae	<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tail-bat	No	Vulnerable, Protected	
Mammalia	Macropodidae	<i>Petrogale penicillata</i>	Brush-tailed Rock-wallaby	No	Endangered, Protected	Vulnerable
Mammalia	Molossidae	<i>Mormopterus norfolkensis</i>	Eastern Freetail-bat	No	Vulnerable, Protected	
Mammalia	Otariidae	<i>Arctocephalus pusillus doriferus</i>	Australian Fur-seal	No	Vulnerable, Protected	
Mammalia	Peramelidae	<i>Perameles nasuta</i>	Long-nosed Bandicoot population in inner western Sydney	No	Endangered Population, Protected	
Mammalia	Petauridae	<i>Petaurus australis</i>	Yellow-bellied Glider	No	Vulnerable, Protected	
Mammalia	Phascolarctidae	<i>Phascolarctos cinereus</i>	Koala	No	Vulnerable, Protected	Vulnerable
Mammalia	Pteropodidae	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	No	Vulnerable, Protected	Vulnerable
Mammalia	Vespertilionidae	<i>Chalinolobus dwyeri</i>	Large-eared Pied Bat	No	Vulnerable, Protected	Vulnerable
Mammalia	Vespertilionidae	<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	<i>Miniopterus australis</i>	Little Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	<i>Miniopterus schreibersii oceanensis</i>	Eastern Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	<i>Myotis macropus</i>	Southern Myotis	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	No	Vulnerable, Protected	
Reptilia	Cheloniidae	<i>Chelonia mydas</i>	Green Turtle	No	Vulnerable, Protected	Vulnerable
Reptilia	Varanidae	<i>Varanus rosenbergi</i>	Rosenberg's Goanna	No	Vulnerable, Protected	
Flora	Anthericaceae	<i>Caesia parviflora</i> var. <i>minor</i>	Small Pale Grass-lily	No	Endangered, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Apocynaceae	Marsdenia viridiflora subsp. viridiflora	Marsdenia viridiflora R. Br. subsp. viridiflora population in the Bankstown, Blacktown, Camden, Campbelltown, Fairfield, Holroyd, Liverpool and Penrith local government areas	No	Endangered Population	
Flora	Campanulaceae	Wahlenbergia multicaulis	Tadgell's Bluebell in the local government areas of Auburn, Bankstown, Baulkham Hills, Canterbury, Hornsby, Parramatta and Strathfield	No	Endangered Population	
Flora	Casuarinaceae	Allocasuarina diminuta subsp. mimica	Allocasuarina diminuta subsp. mimica L.A.S.Johnson population in the Sutherland and Liverpool local government areas	No	Endangered Population	
Flora	Casuarinaceae	Allocasuarina glaireicola		No	Endangered, Protected	Endangered
Flora	Convolvulaceae	Wilsonia backhousei	Narrow-leafed Wilsonia	No	Vulnerable, Protected	
Flora	Dilleniaceae	Hibbertia puberula		No	Endangered, Protected	
Flora	Dilleniaceae	Hibbertia sp. Bankstown		No	Critically Endangered Species, Protected	Critically Endangered
Flora	Dilleniaceae	Hibbertia stricta subsp. furcatula		No	Endangered, Protected	
Flora	Elaeocarpaceae	Tetraloche juncea	Black-eyed Susan	No	Vulnerable, Protected	Vulnerable
Flora	Ericaceae	Epacris purpurascens var. purpurascens		No	Vulnerable, Protected	
Flora	Ericaceae	Leucopogon exolasius	Woronora Beard-heath	No	Vulnerable, Protected	Vulnerable
Flora	Fabaceae (Faboideae)	Pultenaea parviflora		No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Faboideae)	Pultenaea pedunculata	Matted Bush-pea	No	Endangered, Protected	
Flora	Fabaceae (Mimosoideae)	Acacia bynoeana	Bynoe's Wattle	No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia prominens	Gosford Wattle, Hurstville and Kogarah Local Government Areas	No	Endangered Population	
Flora	Fabaceae (Mimosoideae)	Acacia pubescens	Downy Wattle	No	Vulnerable, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia terminalis subsp. terminalis	Sunshine Wattle	No	Endangered, Protected	Endangered
Flora	Juncaginaceae	Maundia triglochinos		No	Vulnerable, Protected	
Flora	Lamiaceae	Prostanthera saxicola	Prostanthera saxicola population in Sutherland and Liverpool local government areas	No	Endangered Population	
Flora	Lobeliaceae	Hypsela sessiliflora		No	Endangered, Protected, Category 3 Sensitive Species	Extinct
Flora	Myrtaceae	Callistemon linearifolius	Netted Bottle Brush	No	Vulnerable, Protected, Category 3 Sensitive Species	
Flora	Myrtaceae	Eucalyptus camfieldii	Camfield's Stringybark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus nicholii	Narrow-leaved Black Peppermint	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus scoparia	Wallangarra White Gum	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	Melaleuca deanei	Deane's Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Syzygium paniculatum	Magenta Lilly Pilly	No	Endangered, Protected	Vulnerable
Flora	Orchidaceae	Caladenia tessellata	Thick Lip Spider Orchid	No	Endangered, Protected, Category 2 Sensitive Species	Vulnerable
Flora	Orchidaceae	Pterostylis gibbosa	Illawarra Greenhood	No	Endangered, Protected, Category 2 Sensitive Species	Endangered
Flora	Orchidaceae	Pterostylis saxicola	Sydney Plains Greenhood	No	Endangered, Protected, Category 2 Sensitive Species	Endangered
Flora	Poaceae	Deyeuxia appressa		No	Endangered, Protected	Endangered
Flora	Proteaceae	Grevillea beadleana	Beadle's Grevillea	No	Endangered, Protected, Category 3 Sensitive Species	Endangered

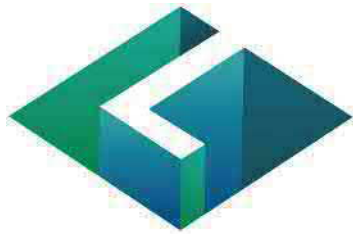
Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Proteaceae	Grevillea parviflora subsp. parviflora	Small-flower Grevillea	No	Vulnerable, Protected	Vulnerable
Flora	Proteaceae	Persoonia hirsuta	Hairy Geebung	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Flora	Proteaceae	Persoonia nutans	Nodding Geebung	No	Endangered, Protected	Endangered
Flora	Rhamnaceae	Pomaderris prunifolia	P. prunifolia in the Parramatta, Auburn, Strathfield and Bankstown Local Government Areas	No	Endangered Population	
Flora	Thymelaeaceae	Pimelea spicata	Spiked Rice-flower	No	Endangered, Protected	Endangered

Data does not include records not defined as either endangered or vulnerable, and category 1 sensitive species are also excluded. NSW Office of Environment and Heritage's Atlas of NSW Wildlife, which holds data from a number of custodians. Data obtained 09/09/2016

#### USE OF REPORT – APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report. The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
  - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
    - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available (**Third Party Content Suppliers**);
    - (j) content which is derived from content described in paragraph (i);
  - (b) Lotsearch does not take any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report;
  - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**);
  - (d) Lotsearch has not undertaken any physical inspection of the property;
  - (e) Lotsearch does not warrant that all land uses or features whether past or current are identified in the Report;
  - (f) the Report does not include any information relating to the actual state or condition of the Property;
  - (g) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of a Property for any particular purpose;
  - (h) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
  - (i) the End User should undertake its own inspection s of the Property to satisfy itself that there are no defects or failures.
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
5. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
6. To the extent permitted by law and subject to paragraph 7, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these terms other than as expressly set out in these terms are excluded.
7. Subject to paragraph 8, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
8. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
9. Subject to paragraph 7, neither Lotsearch nor the End User is liable to the other for any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to these terms.
10. These terms are subject to New South Wales law.



# LOTSEARCH

LOTSEARCH ENVIRO LITE

**Date: 26 Nov 2020 16:13:25**

**Reference: LS016358 EL**

**Address: Riverwood Estate, Riverwood, NSW 2210**

**Disclaimer:**

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.

You should obtain independent advice before you make any decision based on the information within the report.

The detailed terms applicable to use of this report are set out at the end of this report.

## Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	13/11/2020	13/11/2020	Quarterly	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	25/06/2019	25/06/2019	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	18/11/2020	13/11/2020	Monthly	1000	0	0	6
Contaminated Land Records of Notice	Environment Protection Authority	04/11/2020	04/11/2020	Monthly	1000	0	0	2
Former Gasworks	Environment Protection Authority	10/11/2020	11/10/2017	Monthly	1000	0	0	0
National Waste Management Facilities Database	Geoscience Australia	12/11/2020	07/03/2017	Quarterly	1000	1	1	2
National Liquid Fuel Facilities	Geoscience Australia	12/11/2020	13/07/2012	Quarterly	1000	0	0	5
EPA PFAS Investigation Program	Environment Protection Authority	12/11/2020	07/05/2020	Monthly	2000	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	14/10/2020	14/10/2020	Monthly	2000	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	14/10/2020	14/10/2020	Monthly	2000	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	10/11/2020	10/11/2020	Monthly	2000	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	16/11/2020	16/11/2020	Monthly	2000	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	04/02/2020	13/12/2018	Annually	1000	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	10/11/2020	10/11/2020	Monthly	1000	0	0	12
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	10/11/2020	10/11/2020	Monthly	1000	0	0	2
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	10/11/2020	10/11/2020	Monthly	1000	5	6	18
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150	21	300	434
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150	-	104	104
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500	0	55	95
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500	-	39	62
Points of Interest	NSW Department of Finance, Services & Innovation	30/03/2020	30/03/2020	Quarterly	1000	4	8	62
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	30/03/2020	30/03/2020	Quarterly	1000	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	30/03/2020	30/03/2020	Quarterly	1000	0	0	0
Major Easements	NSW Department of Finance, Services & Innovation	30/03/2020	30/03/2020	Quarterly	1000	1	1	63
State Forest	Forestry Corporation of NSW	18/01/2018	18/01/2018	As required	1000	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	21/01/2020	30/09/2019	Annually	1000	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	26/10/2020	21/02/2018	As required	1000	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000	0	0	46
Geological Units 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		None planned	1000	2	-	5
Geological Structures 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		None planned	1000	0	-	2
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000	1	1	1
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	14/10/2020	27/07/2020	Annually	1000	3	-	7
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	29/10/2020	03/07/2020	Monthly	500	2	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Department of Planning, Industry and Environment	12/05/2017	01/01/2002	None planned	1000	0	0	4
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	30/03/2020	30/03/2020	Quarterly	1000	0	0	0
Current Mining Titles	NSW Department of Industry	04/11/2020	04/11/2020	Monthly	1000	0	0	0
Mining Title Applications	NSW Department of Industry	04/11/2020	04/11/2020	Monthly	1000	0	0	0
Historic Mining Titles	NSW Department of Industry	04/11/2020	04/11/2020	Monthly	1000	13	13	13
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	29/10/2020	07/12/2018	Monthly	1000	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	29/10/2020	23/10/2020	Monthly	1000	4	15	93
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	24/11/2020	20/11/2019	Quarterly	1000	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	24/11/2020	20/11/2019	Quarterly	1000	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	12/11/2020	02/07/2020	Quarterly	1000	0	0	0
Environmental Planning Instrument Heritage	NSW Department of Planning, Industry and Environment	29/10/2020	23/10/2020	Monthly	1000	0	0	0
Bush Fire Prone Land	NSW Rural Fire Service	24/11/2020	09/11/2020	Weekly	1000	0	0	0
Native Vegetation of the Sydney Metropolitan Area	NSW Office of Environment & Heritage	01/03/2017	16/12/2016	As required	1000	2	3	15
Ramsar Wetlands of Australia	Department of the Agriculture, Water and the Environment	08/10/2014	24/06/2011	As required	1000	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	0	3
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	0	5
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	24/11/2020	24/11/2020	Weekly	10000	-	-	-

Site Diagram

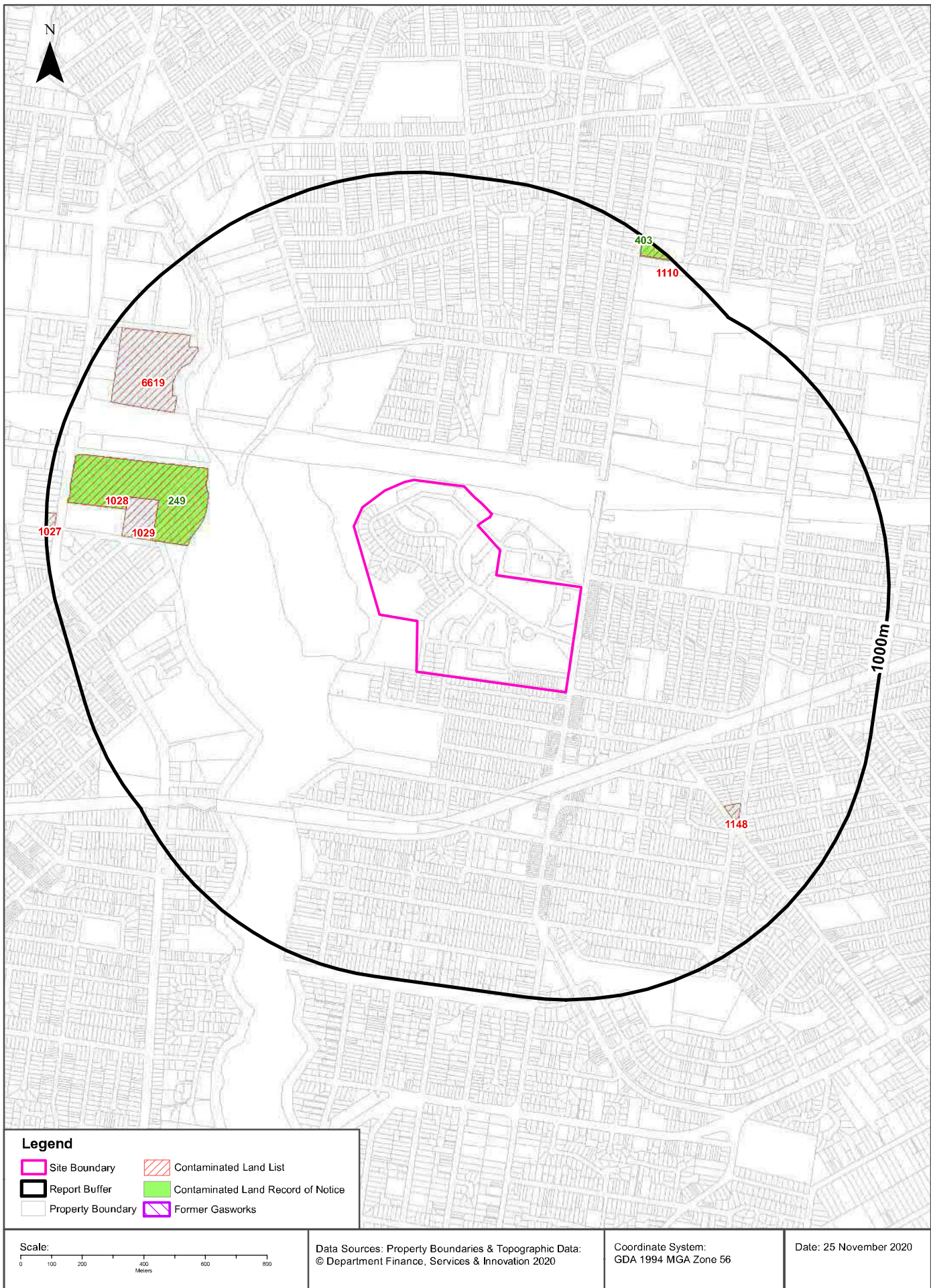
Riverwood Estate, Riverwood, NSW 2210



<b>Legend</b>  <div><div></div> Site Boundary</div> <div><div></div> Internal Parcel Boundaries</div>	<b>Total Area:</b> 311343m <sup>2</sup> <b>Total Perimeter:</b> 2506m  <small>Disclaimers:</small> Measurements are approximate only and may have been simplified or smaller lengths removed for readability.  Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.	<b>Scale:</b> 0 25 50 100 150 200 Meters  Data Sources: Aerial Imagery © Aerometrex Pty Ltd  <div><div>Coordinate System: GDA 1994 MGA Zone 56</div><div>Date: 25 November 2020</div></div>
---	--	---

# Contaminated Land

Riverwood Estate, Riverwood, NSW 2210



## Contaminated Land

Riverwood Estate, Riverwood, NSW 2210

### List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist (m)	Direction
1028	Former Exide Battery Manufacturing & Recycling	55 Bryant Street	Padstow	Other Industry	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	482m	West
1148	7-Eleven Riverwood	30 Bonds ROAD	Riverwood	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	630m	South East
1029	Fosco Australia	7 Stuart Street	Padstow	Chemical Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	641m	West
6619	Selleys / Dulux	1-29 Gow Street	Padstow	Chemical Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	686m	North West
1110	Punchbowl Laundry	42-44 Belmore Road	Punchbowl	Chemical Industry	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	943m	North East
1027	Caltex Padstow	115 Fairford Road	Padstow	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	968m	West

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.

EPA site management class	Explanation
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

## Contaminated Land

Riverwood Estate, Riverwood, NSW 2210

### Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
249	Former Exide Battery Manufacturing & Recycling	55 Bryant Street	Padstow	2 current and 1 former	3266	Premise Match	482m	West
403	Punchbowl Laundry	42-44 Belmore ROAD	PUNCHBOWL	3 current	3424	Premise Match	941m	North East

Contaminated Land Records of Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit

<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

### Former Gasworks

Former Gasworks within the dataset buffer:

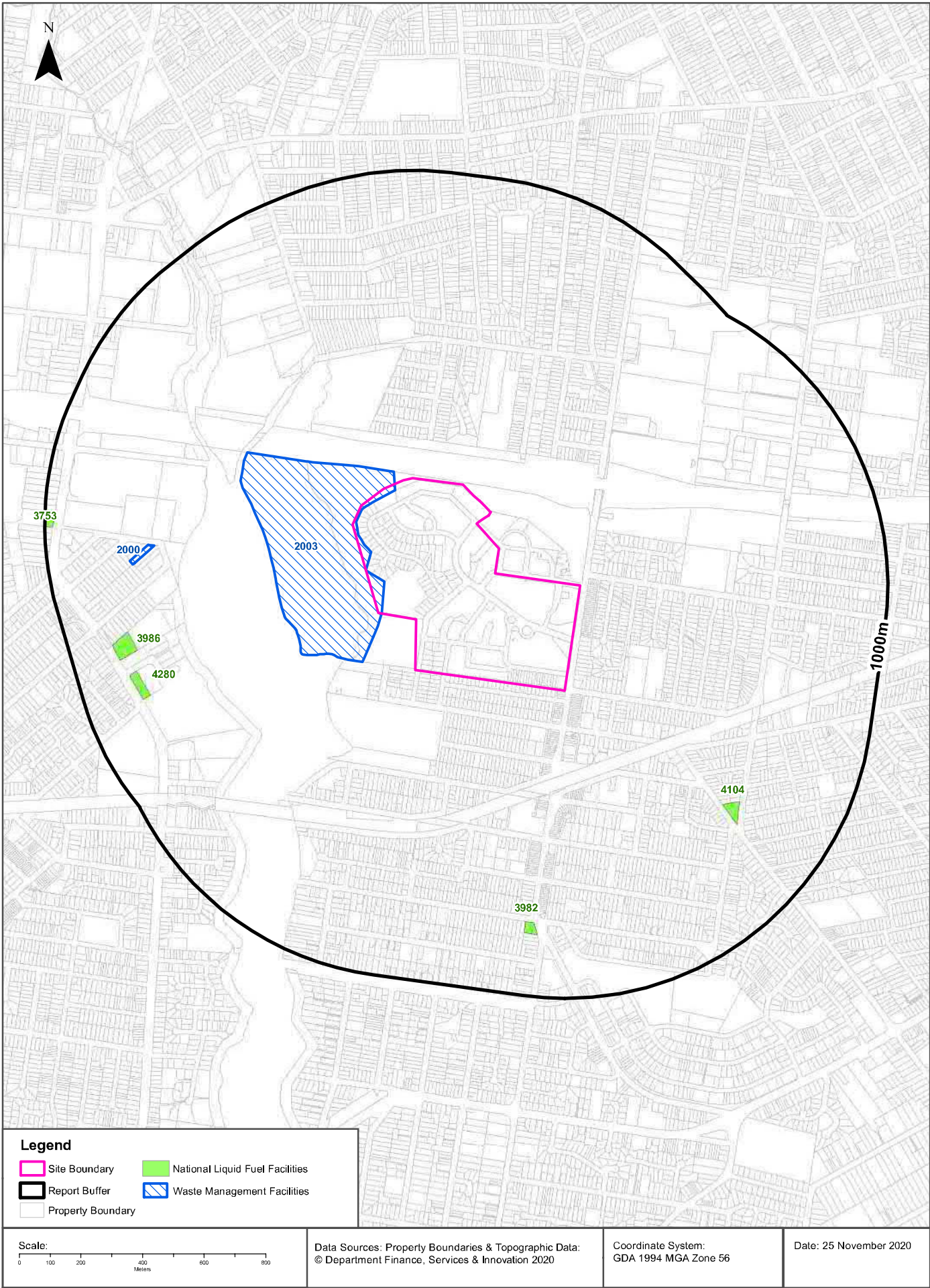
Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Waste Management & Liquid Fuel Facilities

Riverwood Estate, Riverwood, NSW 2210



## Waste Management & Liquid Fuel Facilities

Riverwood Estate, Riverwood, NSW 2210

### National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist (m)	Direction
2003	Canterbury City Council	Salt Pan Creek Tip	Kentucky Road	Riverwood	Multi-Purpose	Operational	Operational	Operational		Premise Match	0m	Onsite
2000	Transpacific Industries / Cleanaway	Cleanaway	12 Stuart Street	Padstow	Multi-Purpose		Operational	Operational		Premise Match	648m	West

Waste Management Facilities Data Source: Geoscience Australia

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

### National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist (m)	Direction
4104	7-Eleven Pty Ltd	Riverwood	30 Bonds Road	Riverwood	Petrol Station	Operational		13/07/2012	Premise Match	630m	South East
3982	BP	BP Express Riverwood	189-191 Belmore Road	Riverwood	Petrol Station	Operational		25/07/2011	Premise Match	760m	South
3986	BP	BP Davies Road	9 Davies Road	Padstow	Petrol Station	Operational		25/07/2011	Premise Match	785m	West
4280	Shell	Coles Express Padstow	19 Davies Road	Padstow	Petrol Station	Operational		25/07/2011	Premise Match	788m	West
3753	Caltex	Caltex Padstow	105-113 Fairford Road	Padstow	Petrol Station	Operational		25/07/2011	Premise Match	968m	West

National Liquid Fuel Facilities Data Source: Geoscience Australia

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# PFAS Investigation & Management Programs

Riverwood Estate, Riverwood, NSW 2210

## EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Id	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

## Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

## Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

## Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

## Defence Sites

Riverwood Estate, Riverwood, NSW 2210

### Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

## EPA Other Sites with Contamination Issues

Riverwood Estate, Riverwood, NSW 2210

### EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

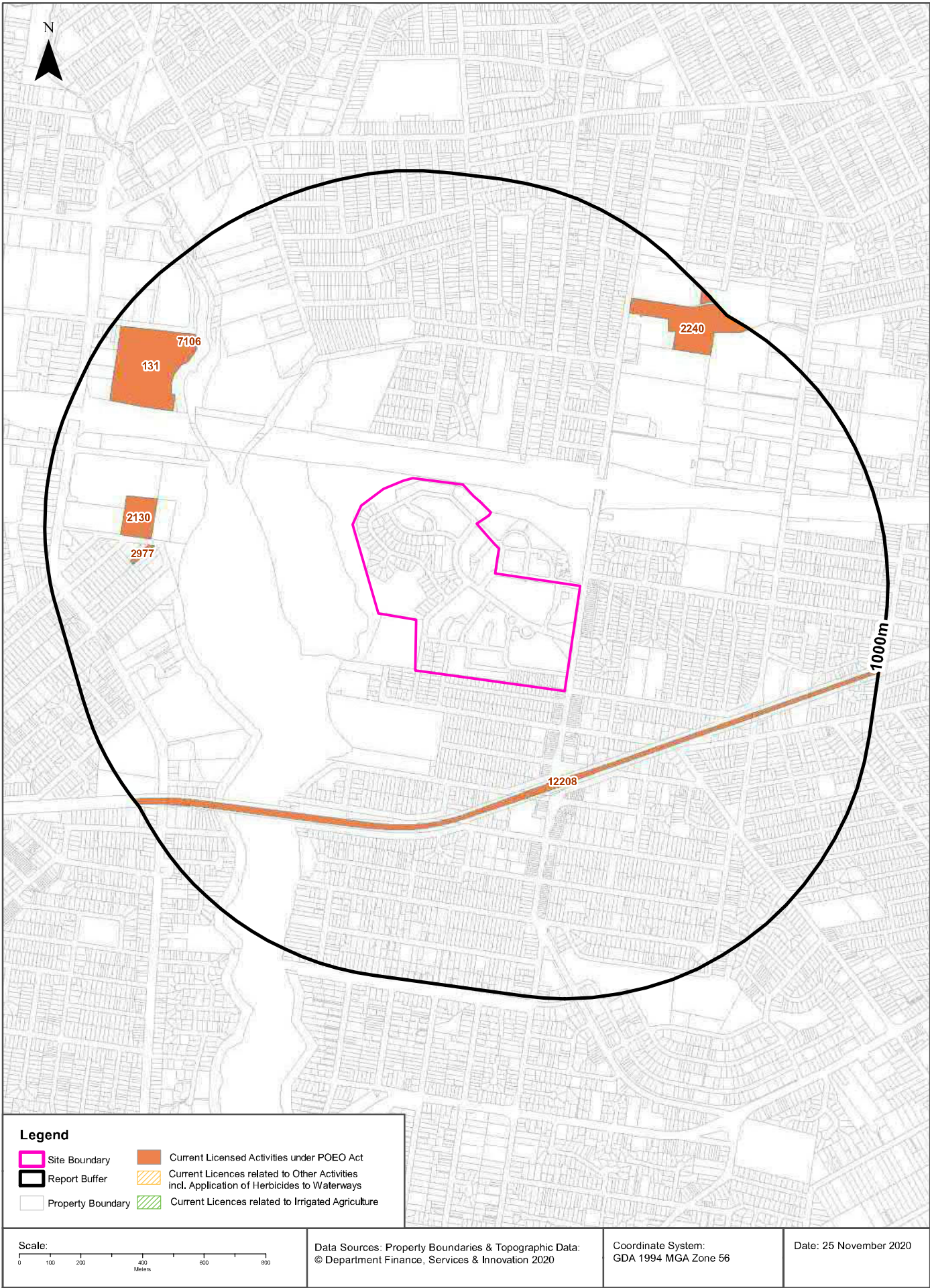
Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

# Current EPA Licensed Activities

Riverwood Estate, Riverwood, NSW 2210



## EPA Activities

Riverwood Estate, Riverwood, NSW 2210

## Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

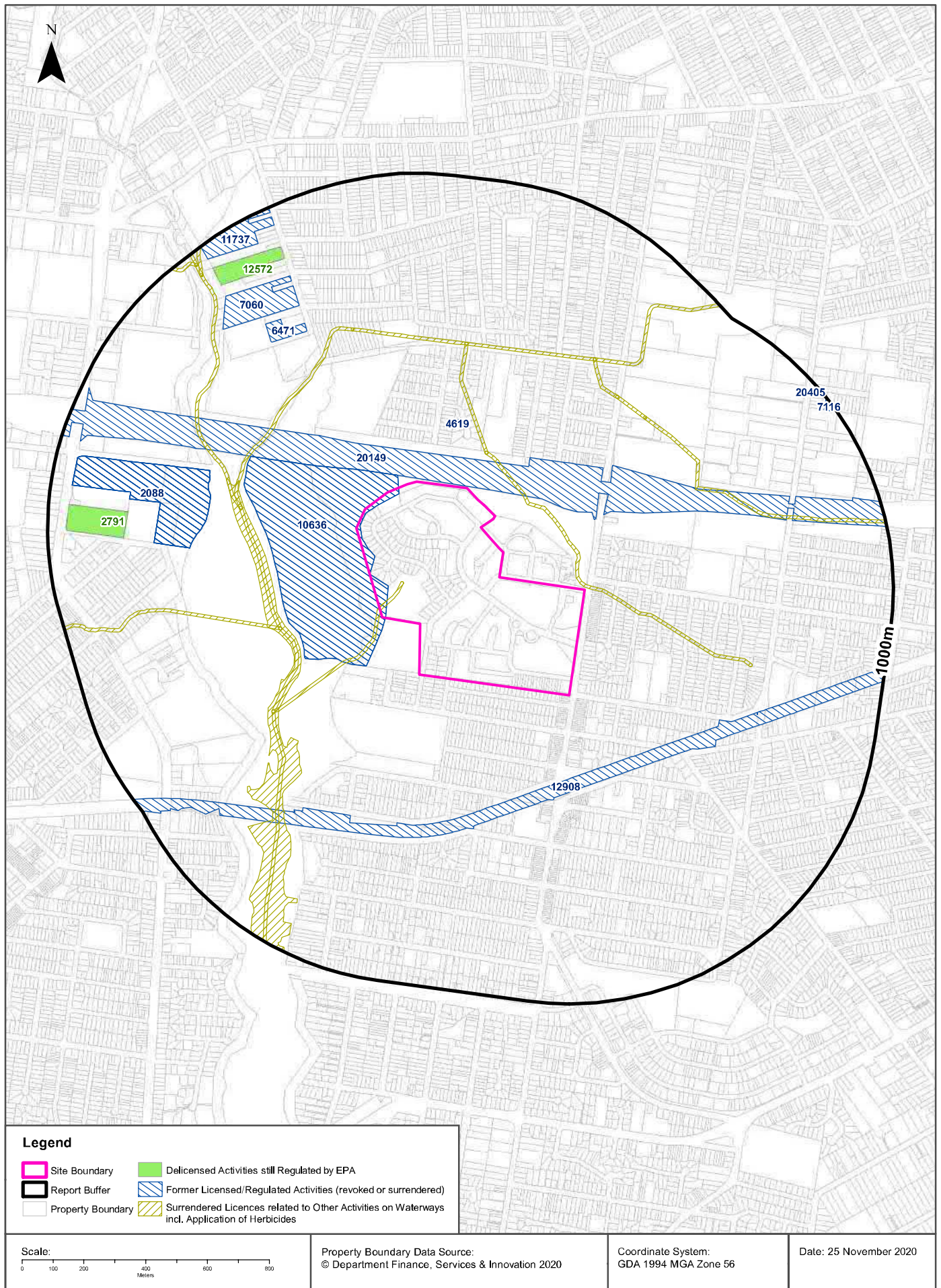
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	268m	South
2130	VESUVIUS AUSTRALIA PTY LTD	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	Dangerous goods production	Premise Match	641m	West
2130	VESUVIUS AUSTRALIA PTY LTD	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	General chemicals storage	Premise Match	641m	West
2130	VESUVIUS AUSTRALIA PTY LTD	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	Non-thermal treatment of hazardous and other waste	Premise Match	641m	West
2130	VESUVIUS AUSTRALIA PTY LTD	FOSECO PTY LIMITED	7 STUART STREET	PADSTOW	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Premise Match	641m	West
2977	CLEANAWAY OPERATIONS PTY LTD	CLEANAWAY	12 - 14 STUART STREET	PADSTOW	Non-thermal treatment of hazardous and other waste	Premise Match	648m	West
131	DULUXGROUP (AUSTRALIA) PTY LTD	DULUX AUSTRALIA	Paint warehouse and distribution building, 15 GOW STREET, PADSTOW, NSW 2211	PADSTOW	Chemical storage waste generation	Premise Match	686m	North West
131	DULUXGROUP (AUSTRALIA) PTY LTD	DULUX AUSTRALIA	Paint warehouse and distribution building, 15 GOW STREET, PADSTOW, NSW 2211	PADSTOW	General chemicals storage	Premise Match	686m	North West
7106	DULUXGROUP (AUSTRALIA) PTY LTD	SELLEYS	1 GOW STREET	PADSTOW	Chemical production waste generation	Premise Match	746m	North West
7106	DULUXGROUP (AUSTRALIA) PTY LTD	SELLEYS	1 GOW STREET	PADSTOW	Paints/polishes/adhesives production	Premise Match	746m	North West
2240	A.C.N. 000 012 340 PTY LTD	AUSTRAL TILES	62 BELMORE ROAD	PUNCHBOWL	Ceramic waste generation	Premise Match	777m	North East
2240	A.C.N. 000 012 340 PTY LTD	AUSTRAL TILES	62 BELMORE ROAD	PUNCHBOWL	Ceramics production	Premise Match	777m	North East

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# Delicensed & Former Licensed EPA Activities

Riverwood Estate, Riverwood, NSW 2210



## EPA Activities

Riverwood Estate, Riverwood, NSW 2210

### Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
2791	G.A & L. HARRINGTON PTY LTD	G.A & L. HARRINGTON PTY LTD	108 FAIRFORD ROAD	PADSTOW	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	743m	West
12572	FINISHED PRODUCTS PTY LTD	Finished Products P/L	31 Moxon Road	PUNCHBOWL	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	817m	North West

Delicensed Activities Data Source: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

### Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

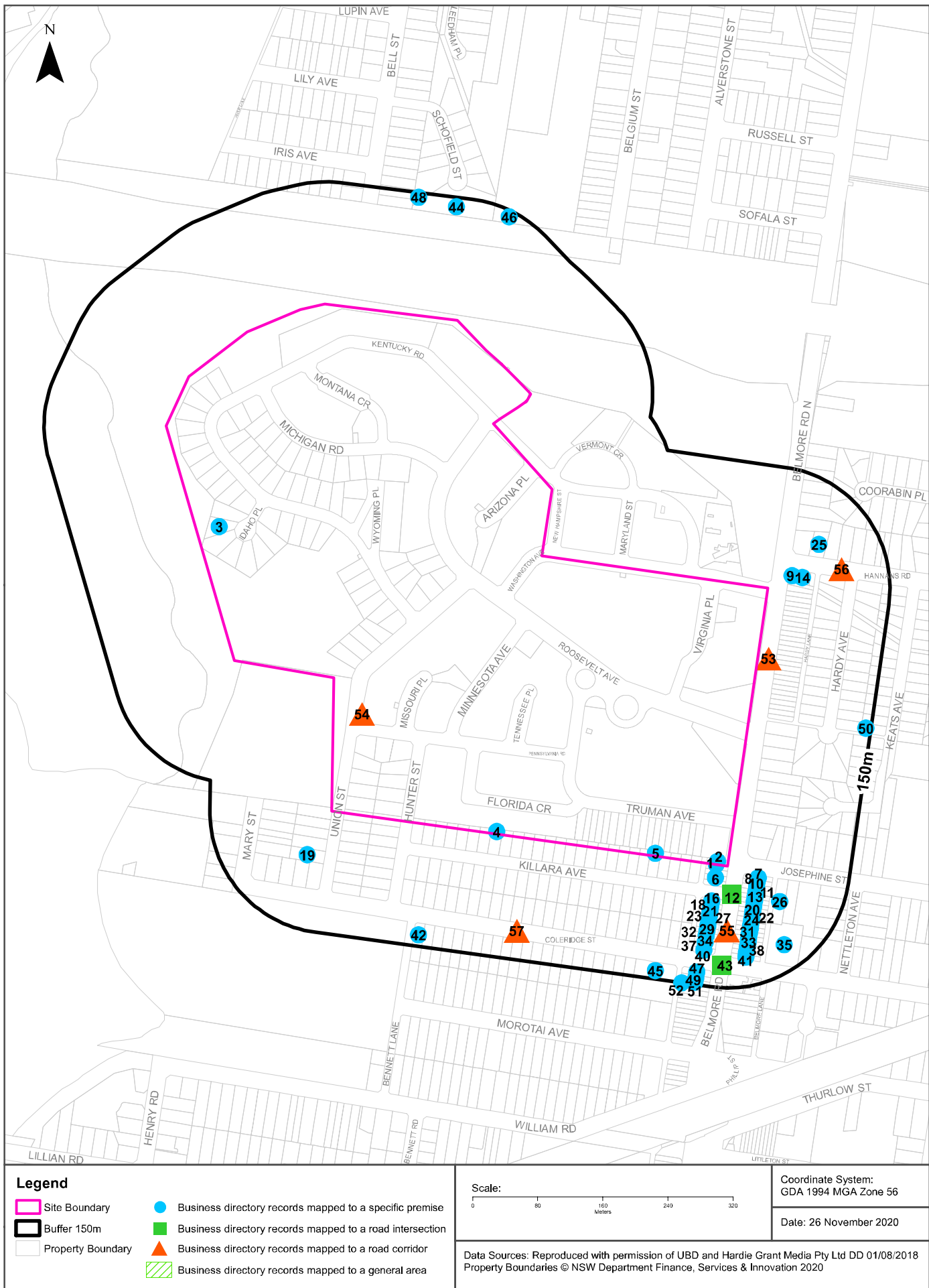
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
10636	CANTERBURY CITY COUNCIL	SALT PAN CREEK TIP, Kentucky Road, RIVERWOOD	Surrendered	22/05/2000	Non-thermal treatment of general waste	Premise Match	0m	Onsite
10636	CANTERBURY CITY COUNCIL	SALT PAN CREEK TIP, Kentucky Road, RIVERWOOD	Surrendered	22/05/2000	Waste disposal by application to land	Premise Match	0m	Onsite
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	Onsite
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	Onsite
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	Onsite
20149	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	M5 West Widening - Kings Georges Rd to Camden Valley Way, PO Box 5700, WEST CHATSWOOD	Surrendered	07/08/2012	Road construction	Road Match	7m	North
4619	POLLUTION AND LABORATORY SERVICES PTY. LIMITED	POLLUTION & LABORATORY SERVICES PTY LIMITED, 12 SCHOFIELDS STREET, RIVERWOOD	Surrendered	02/05/2000	Non-thermal treatment of hazardous and other waste	Premise Match	191m	North
4619	POLLUTION AND LABORATORY SERVICES PTY. LIMITED	POLLUTION & LABORATORY SERVICES PTY LIMITED, 12 SCHOFIELDS STREET, RIVERWOOD	Surrendered	02/05/2000	Waste storage - hazardous, restricted solid, liquid, clinical and related waste and asbestos waste	Premise Match	191m	North

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
12908	CPB CONTRACTORS PTY LIMITED	Kingsgrove to Revesby Rail Clearways Project, King Georges Road, BEVERLY HILLS, NSW 2209	Surrendered	18/09/2008	Railway systems activities	Network of Features	255m	South
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Battery production	Premise Match	482m	West
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Chemical production waste generation	Premise Match	482m	West
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Contaminated soil treatment	Premise Match	482m	West
2088	EXIDE AUSTRALIA PTY LTD	EXIDE TECHNOLOGIES, 55 BRYANT STREET, PADSTOW	Surrendered	13/05/2000	Recovery of hazardous and other waste	Premise Match	482m	West
6471	RESOURCE RECYCLING TECHNOLOGIES PTY. LTD.	3/57 MOXON ROAD, PUNCHBOWL, NSW 2196	Surrendered	28/04/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	584m	North West
7060	DONAGHYS SARLON PTY. LTD.	51 MOXON ROAD, PUNCHBOWL, NSW 2196	Surrendered	11/08/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	669m	North West
11737	TRIVAC METALS PTY LTD	11 - 15 MOXON ROAD, PUNCHBOWL, NSW 2196	Surrendered	16/09/2002	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	908m	North West
7116	PERFECTION PLATE HOLDINGS PTY LTD	19 SKINNER AVE, RIVERWOOD, NSW 2210	Surrendered	14/11/2000	Metal waste generation; Metal coating	Premise Match	970m	North East
20405	APEX RUBBER RECYCLING PTY LTD	, 21 SKINNER AVENUE, RIVERWOOD, NSW 2210,	Revoked	25/02/2015	Recovery of waste tyres, Waste storage - waste tyres	Premise Match	970m	North East

Former Licensed Activities Data Source: Environment Protection Authority  
© State of New South Wales through the Environment Protection Authority

# Historical Business Directories

Riverwood Estate, Riverwood, NSW 2210



# Historical Business Directories

Riverwood Estate, Riverwood, NSW 2210

## Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Advance Family Hair Care, 351 Belmore Rd., Riverwood. 2210	41551	1986	Premise Match	0m	On-site
	HAIRDRESSERS-MENS.	Advance Family Hair Care, 351 Belmore Rd., Riverwood. 2210	43454	1986	Premise Match	0m	On-site
	MEDICAL PRACTITIONERS.	Reddy, Bharathi, 351A Belmore Rd., Riverwood. 2210	57147	1986	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Gino's Hair Fashions Studio, 351 Belmore Rd., Riverwood. 2210.	5702	1982	Premise Match	0m	On-site
	DRESS SHOPS & ACCESSORIES.(D7450)	Leydin, P, 351A Belmore Rd., Riverwood. 2210.	23074	1982	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Gino's Hair Fashions Studio, 351 Belmore Rd., Riverwood. 2210	5030	1978	Premise Match	0m	On-site
	DRESS SHOPS & ACCESSORIES.	Leydin, P., 351A Belmore Rd., Riverwood. 2210	20246	1978	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Gino's Hair Fashions Studio, 351 Belmore Rd., Riverwood. 2210.	5306	1975	Premise Match	0m	On-site
	DRESS SHOPS & ACCESSORIES.	Leydin, P., 351A Belmore Rd., Riverwood. 2210	23363	1975	Premise Match	0m	On-site
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Gino's Hair Fashions Studio., 351 Belmore Rd., Riverwood	265943	1970	Premise Match	0m	On-site
	DRESS SHOPS (D595)	Leydin, Pauline., 351a Belmore Rd., Riverwood	291450	1970	Premise Match	0m	On-site
2	Frock & Coat Salons	Leydin, Pauline, 351a Belmore Rd., Riverwood	90057	1965	Premise Match	0m	On-site
	CHEMISTS-PHARMACEUTICAL.	Pardy's, Doug. Pharmacy, 353 Belmore Rd., Riverwood. 2210	14678	1986	Premise Match	0m	On-site
	CHEMISTS - PHARMACEUTICAL.(C4110)	Grinhams Pharmacy, 353 Belmore Rd., Riverwood. 2210.	15085	1982	Premise Match	0m	On-site
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Amalfi, F., 353 Belmore Rd., Riverwood. 2210	45813	1978	Premise Match	0m	On-site
	FRUITERERS &/OR GREENGROCERS.	Fred & Mick Fruit, 353 Belmore Rd., Riverwood. 2210.	35230	1975	Premise Match	0m	On-site
	FRUITERERS/GREENGROCERS (F640)	Fred & Mick Fruit Palace., 353 Belmore Rd., Riverwood	307084	1970	Premise Match	0m	On-site
3	Fruiterers & Greengrocers	Fred & Mick Fruit Palace, 353 Belmore Rd., Riverwood	91279	1965	Premise Match	0m	On-site
	BUTCHERS-RETAIL.	Parish, D., 6 Idaho Pl., Riverwood. 2210	9699	1978	Premise Match	0m	On-site
	PLUMBERS, GASFITTERS & DRAINLAYERS	Gleave, A. B., 40 Killara Ave. RIVERWOOD	359937	1961	Premise Match	0m	On-site
5	ELECTRICAL CONTRACTORS &/OR ELECTRICIANS	A. and A. Electrical Service, 10 Killara Ave., Herne Bay	37317	1950	Premise Match	0m	On-site
6	Motor Garages & Service Stations	Ampol Riverwood Service Station, 345 Belmore Rd, Riverwood 2210	53491	1991	Premise Match	13m	South East
	MOTOR ENGINE RECONDITIONERS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	63148	1986	Premise Match	13m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	65344	1986	Premise Match	13m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
6	MOTOR ENGINE RECONDITIONERS. (M6640)	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210.	55690	1982	Premise Match	13m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210.	57471	1982	Premise Match	13m	South East
	MOTOR ENGINE RECONDITIONERS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	49145	1978	Premise Match	13m	South East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	50748	1978	Premise Match	13m	South East
	MOTOR ENGINE RECONDITIONERS.	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	58124	1975	Premise Match	13m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	59468	1975	Premise Match	13m	South East
	MOTOR SERVICE STATIONS - PETROL, OIL	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	61919	1975	Premise Match	13m	South East
	LOCKSMITHS/KEY CUTTERS (L650)	Barclay, W. H. Pty. Ltd., 345 Belmore Rd.	323825	1970	Premise Match	13m	South East
	PAINT,VARNISH,OILS/COLOUR MERCHANTS (P074)	Barclay, W. H. PTY. Ltd., 345 Belmore Rd.	346096	1970	Premise Match	13m	South East
	HARDWARE DEALERS/IRONMONGERS (H230)	Barclay, W. H. Pty. Ltd., 345 Belmore Rd., Riverwood	314896	1970	Premise Match	13m	South East
	MOTOR GARAGES & ENGINEERS(M6S6)	Riverwood Service Station., 345 Belmore Rd., Riverwood	338515	1970	Premise Match	13m	South East
	MOTOR ENGINE RECONDITIONERS(M624)	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	337065	1970	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Riverwood Service Station., 345-349 Belmore Rd., RIVERWOOD	341434	1970	Premise Match	13m	South East
	Motor Garages & Engineers	Riverwood Service Station, 345 Belmore Rd. Riverwood	123304	1965	Premise Match	13m	South East
	Motor Service Stations - Petrol, Oil, Etc.	Riverwood Service Station, 345-349 Belmore Rd. Riverwood	126100	1965	Premise Match	13m	South East
7	MEDICAL PRACTITIONERS.	Atkins, L. A., 55 Josephine St., Riverwood. 2210	53490	1986	Premise Match	23m	South East
	CAFES, MILK BARS &/OR SNACK BARS.	Leungs Cafe, 57 Josephine St., Riverwood. 2210	11312	1986	Premise Match	23m	South East
	TAKE-AWAY FOODS.	Leungs Cafe, 57 Josephine St., Riverwood. 2210.	91212	1986	Premise Match	23m	South East
	HAIRDRESSER LADIES &/OR BEAUTY SALONS	Tony Antoinette, 296 Belmore Rd., Riverwood. 2210	43302	1986	Premise Match	23m	South East
	MEDICAL PRACTITIONERS. (M2020)	Atkins, L. A., 55 Josephine St., Riverwood. 2210.	47030	1982	Premise Match	23m	South East
	CAFES, TEA ROOMS &/OR COFFEELOUNGES. (C0345)	Leungs Cafe, 57 Josephine St., Riverwood. 2210.	12276	1982	Premise Match	23m	South East
	TAKE-AWAY FOODS. (T0235)	Leungs Cafe, 57 Josephine St., Riverwood. 2210.	78593	1982	Premise Match	23m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Tony Antoinette, 296 Belmore Rd., Riverwood. 2210.	6648	1982	Premise Match	23m	South East
	MEDICAL PRACTITIONERS.	Buivids, A., 55 Josephine St., Riverwood. 2210	42292	1978	Premise Match	23m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Elizabeth & Fani, 296 Belmore Rd., Riverwood. 2210	4954	1978	Premise Match	23m	South East
	DRESS SHOPS & ACCESSORIES.	Glover, J., 59 Josephine St., Riverwood. 2210	20126	1978	Premise Match	23m	South East
	TAKE-AWAY FOODS.	Leungs Cafe, 57 Josephine St., Riverwood. 2210	69422	1978	Premise Match	23m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES.	Leungs Cafe. 57 Josephine St., Riverwood. 2210	10516	1978	Premise Match	23m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Elizabeth & Fani, 296 Belmore Rd., Riverwood. 2210.	5208	1975	Premise Match	23m	South East
	CAFES, TEA ROOMS &/OR COFFEE LOUNGES.	Leungs Cafe, 57 Josephine St., Riverwood. 2210	12078	1975	Premise Match	23m	South East
	HAIRDRESSERS-GENTS.	McMaster, A. & Son.59 Josephine St. Riverwood. 2210	40713	1975	Premise Match	23m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
7	MEDICAL PRACTITIONERS.	Rang, H., 55 Josephine St., Riverwood. 2210.	51243	1975	Premise Match	23m	South East
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Elizabeth A Fani., 296 Belmore Rd., Riverwood	265827	1970	Premise Match	23m	South East
	CAFES, COFFEE LOUNGES, Etc. (C030)	Leungs Cafe., 57 Josephine St., Riverwood	275781	1970	Premise Match	23m	South East
	HAIRDRESSERS (GENT.'S) (H070)	McMaster, A. & Son., 59 Josephine St., Riverwood	314181	1970	Premise Match	23m	South East
	MEDICAL PRACTITIONERS (M216)	Pang, Henry., 55 Josephine St., Riverwood	327885	1970	Premise Match	23m	South East
	Hairdressers (Gent.'s)/Tobacconists	McMaster, A. & Son., 59 Josephine St., Riverwood	98276	1965	Premise Match	23m	South East
	Medical Practitioners	Pang, Henry, 55 Josephine St., Riverwood	112352	1965	Premise Match	23m	South East
	Baby & Children's Wear - Retail	Riverwood Baby Wear., 57 Josephine St., Riverwood	48989	1965	Premise Match	23m	South East
8	MOTOR SPARE PARTS DEALERS RETAIL	Robbo's Spare Parts, 294 Belmont Rd., Riverwood. 2210	67451	1986	Premise Match	24m	South East
	MOTOR ACCESSORIES – RETAIL .	Robbo's Spare Parts, 294 Belmore Rd., Riverwood. 2210	61152	1986	Premise Match	24m	South East
	MOTOR ACCESSORIES – RETAIL .	Robbo's Spares, 294 Belmore Rd., Riverwood. 2210	61155	1986	Premise Match	24m	South East
	MOTOR ACCESSORIES DEALERS.(M4690)	Robbo's Spare Parts, 294 Belmore Rd., Riverwood. 2210.	53923	1982	Premise Match	24m	South East
	MOTOR SPARE PARTS DEALERS -RETAIL. (M7840)	Robbo's Spare Parts, 294 Belmore Rd., Riverwood. 2210.	59249	1982	Premise Match	24m	South East
	MOTOR ACCESSORIES DEALERS.(M4690)	Robbo's Spares, 294 Belmore Rd., Riverwood. 2210.	53925	1982	Premise Match	24m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL	Brown Bros. (Jewellers) Pty. Ltd., 294 Belmore Rd., Riverwood. 2210	45851	1975	Premise Match	24m	South East
	CHINA, CROCKERY, CRYSTAL, CUTLERY, EARTHENWARE, GLASSWARE & SILVERWARE DEALERS	Brown Bros. (Jewellers) Pty. Ltd., 294 Belmore Rd., Riverwood	281414	1970	Premise Match	24m	South East
	JEWELLERS/WATCHMAKERS-RETAIL(J060)	Brown Bros. (Jewellers) Pty. Ltd., 294 Belmore Rd., Riverwood	320974	1970	Premise Match	24m	South East
	Jewellers/Watchmakers - Retail	Brown Bros., 294 Belmore Rd., Riverwood	105891	1965	Premise Match	24m	South East
	China, Crockery, Crystal, Cutlery, Earthenware, Glassware & Silverware Dealers	Brown Bros., 294 Belmore Rd., Riverwood	65953	1965	Premise Match	24m	South East
9	BOOT & SHOE REPAIRERS	Breadens Corner Shoe Repairs (Wal Porter), Hannans Rd. (at 168 Belmore Rd.), Riverwood	268740	1970	Premise Match	27m	East
	MILK, FRUIT JUICE BARS/CONFECTIONERS	Chris Milk Bar & Fruit., Hannans Rd. (at Belmore Rd.), Riverwood	330480	1970	Premise Match	27m	East
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Mademoiselle Beauty Salon., Hannans Rd., at 168 Belmore Rd., Riverwood.	266248	1970	Premise Match	27m	East
	GROCERS-RETAIL (G655)	Mayfair Food Market., Hannans Rd. at 168 Belmore Rd., Riverwood	312740	1970	Premise Match	27m	East
	BUTCHERS-RETAIL (B860)	Riverdale Meat Co., Hannans Rd at 168 Belmore Rd., Riverwood	274429	1970	Premise Match	27m	East
	BOOT & SHOE REPAIRERS	Breadens Career Shoe Repairs (Wal Porter), Hannans Rd. (at 168 Belmore Rd.), Riverwood	53139	1965	Premise Match	27m	East
	Milk, Fruit Juice Bars/Confectioners	Chris Milk Bar & Fruit, Hannans Rd. (at Belmore Rd.), Riverwood	114921	1965	Premise Match	27m	East
	Beauty Salons &/or Ladies Hairdressers	Mademoiselle Beauty Salon., Hannans Rd. at 168 Belmore Rd., Riverwood	50907	1965	Premise Match	27m	East
	Grocers - Retail	Mayfair Food Market, Hannans Rd. at 168 Belmore Rd., Riverwood	96849	1965	Premise Match	27m	East
	Butchers - Retail	Riverdale Meat Co. Hannans Rd., at 168 Belmore Rd., Riverwood	59190	1965	Premise Match	27m	East
10	HIRING SERVICES.	Formal Knight, 292 Belmore Rd., Riverwood. 2210	45794	1986	Premise Match	28m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
10	CLOTHING-RETAIL-BRIDAL WEAR.	Invitations Bridal Fashions, 292 Belmore Rd., Riverwood. 2210	16630	1986	Premise Match	28m	South East
	MERCERS - MENS &/OR BOYS OUTFITTERS. (M2120)	Formal Knight, 292 Belmore Rd., Riverwood. 2210.	51194	1982	Premise Match	28m	South East
	MOTOR WHEEL MANUFACTURERS.	Sunraysia Wheels Pty. Ltd., 292 Belmore Road., Riverwood. 2210	62869	1975	Premise Match	28m	South East
	MOTOR ACCESSORIES MFRS.	Wheels Intamatonal Pty. Ltd., 292 Belmore Rd., Riverwood. 2210	56412	1975	Premise Match	28m	South East
	MOTOR RACING CAR &/OR EQUIPMENT &/OR DESIGNERS.	Wheels Internatlonal Pty. Ltd., 292 Belmore Rd., Riverwood. 2210	61289	1975	Premise Match	28m	South East
	MOTOR WHEEL RETAILERS &/OR WHOLESALERS	Wheels International 292 Belmore Road, Riverwood. 2210	62902	1975	Premise Match	28m	South East
	MOTOR SPARE PARTS MFRS. &/OR W/SALERS.	Wheels International Pty. Ltd., 292 Belmore Rd., Riverwood. 2210	62506	1975	Premise Match	28m	South East
	MOTOR SPEED &/OR PERFORMANCE EQUIPMENT.	Wheels International Pty. Ltd., 292 Belmore Rd., Riverwood. 2210	62523	1975	Premise Match	28m	South East
	MOTOR WHEEL REPAIRERS &/OR SPECIALISTS.	Wheels International Pty. Ltd., 292 Belmore Rd., Riverwood. 2210	62900	1975	Premise Match	28m	South East
	TYRE DEALERS, RETREADERS &/OR VULCANIZERS,	Wheels International Pty. Ltd., 292 Belmore Rd., Riverwood. 2210	85659	1975	Premise Match	28m	South East
	Footwear Retailers	Belmore Road Shoe Centre, 292 Belmore Rd., Riverwood	88845	1965	Premise Match	28m	South East
	Mercers - Men's & Boys' Outfitters	Shortall, B., 292 Belmore Rd., Riverwood	113497	1965	Premise Match	28m	South East
	FOOTWEAR RETAILERS	Belmore Road Shoe Centre, 292 Belmore Rd., Riverwood	313043	1961	Premise Match	28m	South East
11	Caterers	Glenwood lounge Wedding Receptions., 290 Belmore Rd., Riverwood 2210	38591	1991	Premise Match	32m	South East
	CATERERS.	Glenwood Lounge Wedding Receptions, 290 Belmore Rd., Riverwood. 2210	13156	1986	Premise Match	32m	South East
	BUTCHERS-RETAIL.	Micks Meats, 290 Belmore Rd., Riverwood. 2210	10302	1986	Premise Match	32m	South East
	BUTCHERS - RETAIL. (B8040)	Aris Quality Meats, 290 Belmore Rd., Riverwood. 2210.	10467	1982	Premise Match	32m	South East
	CATERERS. (C2685)	Glenwood Lounge Wedding Reception, 290 Belmore Rd., Riverwood. 2210.	14003	1982	Premise Match	32m	South East
	CATERERS.	Glenwood Lounge Wedding Receptions. 290 Belmore Rd., Riverwood. 2210	12142	1978	Premise Match	32m	South East
	CATERERS.	Glenwood Lounge. 290 Belmore Rd.	12143	1978	Premise Match	32m	South East
	BUTCHERS-RETAIL.	Steer Inn Pty. Ltd., 290 Belmore Rd., Riverwood. 2210	9937	1978	Premise Match	32m	South East
	CATERERS.	Glenwood Lounge Wedding Receptions, 290 Belmore Rd., Riverwood. 2210.	14025	1975	Premise Match	32m	South East
	CATERERS.	Glenwood Lounge, 290 Belmore Rd.	14026	1975	Premise Match	32m	South East
	CATERERS (C183)	Glenwood Lounge Wedding Receptions., 288-290 Belmore Rd., Riverwood	278743	1970	Premise Match	32m	South East
	Butchers - Retail	Day's Meat Service., 290a Belmore Rd., Riverwood	58167	1965	Premise Match	32m	South East
	Caterers	Glenwood Lounge Wedding Receptions, 288-290 Belmore Rd., Riverwood	63555	1965	Premise Match	32m	South East
	BUTCHERS-RETAIL	Townsend, S. & D., 290 Belmore Rd., Riverwood	281297	1961	Premise Match	32m	South East
12	MOTOR SERVICE STATIONS-PETROL, Etc.	Herne Bay Service Station, Killara Ave and Belmore Rd., Herne Bay	86054	1950	Road Intersection	35m	South East
13	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Riverwood Steakhouse, 288 Belmore Rd., Riverwood. 2210	59352	1986	Premise Match	36m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
13	TAKE-AWAY FOODS.	Riverwood Steakhouse, 288 Belmore Rd., Riverwood. 2210.	91667	1986	Premise Match	36m	South East
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS, (M3180)	Riverwood Steakhouse, 288 Belmore Rd., Riverwood. 2210.	52434	1982	Premise Match	36m	South East
	TAKE-AWAY FOODS. (T0235)	Riverwood Steakhouse, 288 Belmore Rd., Riverwood. 2210.	78866	1982	Premise Match	36m	South East
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	J. & L. Milk Bar, 288 Belmore Rd., Riverwood. 2210	45963	1978	Premise Match	36m	South East
	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	J. & L. Milk Bar., 288 Belmore Rd., Riverwood. 2210	53474	1975	Premise Match	36m	South East
	MILK, FRUIT JUICE BARS/CONFECTIONERS	J. St L. Milk Bar., 288 Belmore Rd., Riverwood	330723	1970	Premise Match	36m	South East
	GIFT SHOPS	El Rone Jewellery, 288 Belmore Rd., Riverwood	318865	1961	Premise Match	36m	South East
14	MIXED BUSINESSES.	Mansours Supermarket, 2 Hannans Rd., Riverwood. 2210	60187	1986	Premise Match	39m	East
	TAKE-AWAY FOODS.	Mansours Supermarket, 2 Hannans Rd., Riverwood. 2210.	91310	1986	Premise Match	39m	East
	TAKE-AWAY FOODS. (T0235)	Mansours Take Away Food Bar, 2 Hannans Rd., Riverwood. 2210.	78657	1982	Premise Match	39m	East
	GROCERS-RETAIL	Mansours Food Supermarket, Hannans Rd., Riverwood. 2210	34056	1978	Premise Match	39m	East
	BUTCHERS-RETAIL.	Mansours Super Meats. 2 Hannans Rd., Riverwood. 2210	9523	1978	Premise Match	39m	East
15	PAWNBROKERS/MONEYLENDERS(P208)	Val Anthony Bazaar., 284-286 Belmore Rd., Riverwood	347487	1970	Premise Match	41m	South East
	ANTIQUE DEALERS (A400)	Val-Anthony Bazaar, 284-286 Belmore Rd, Riverwood	261794	1970	Premise Match	41m	South East
	SECOND-HAND DEALERS (S179)	Val-Anthony Bazaar, 284-286 Belmore Rd., Riverwood	360275	1970	Premise Match	41m	South East
	FURNITURE-HOUSEHOLD-RETAILERS	Val-Anthony Bazaar., 284-286 Belmore Rd., Riverwood	309613	1970	Premise Match	41m	South East
	Milk, Fruit Juice Bars/Confectioners	J. & L. Milk Bar, 286 Belmore Rd., Riverwood	115152	1965	Premise Match	41m	South East
16	GARDENERS SUPPLIES-RETAIL.	Riverwood Pet & Garden Centre, 343 Belmore Rd., Riverwood. 2210	38401	1986	Premise Match	42m	South East
	PET SHOPS &/OR SUPPLIES.	Riverwood Pet & Garden Centre, 343 Belmore Rd., Riverwood. 2210	72594	1986	Premise Match	42m	South East
	DANCING TEACHERS &/OR SCHOOLS.	Johnston, M., 343 Belmore Rd., Riverwood. 2210	19773	1975	Premise Match	42m	South East
	DANCING TEACHERS & STUDIOS (D070)	Mapstone, Yvonne., 343 Belmore Rd., Riverwood	286988	1970	Premise Match	42m	South East
	DANCING TEACHERS & STUDIOS	Mapstone, Yvonne, 343 Belmore Rd, Riverwood	71729	1965	Premise Match	42m	South East
17	MIXED BUSINESSES.	Pertsoulis, T., 284 Belmore Rd., Riverwood. 2210	60292	1986	Premise Match	46m	South East
	MIXED BUSINESSES. (M4060)	Pertsoulis, T., 284 Belmore Rd., Riverwood. 2210.	53351	1982	Premise Match	46m	South East
	JEWELLERS &/OR WATCHMAKERS-RETAIL.	Brown Bros. (Jewellers) Pty. Ltd., 284 Belmore Rd., Riverwood. 2210	38781	1978	Premise Match	46m	South East
	MIXED BUSINESSES.	Pertsoulis, T., 284 Belmore Rd., Riverwood. 2210	46974	1978	Premise Match	46m	South East
	FURNITURE-HOUSEHOLD RETAIL	Val Anthony Bazaar., 284 Belmore Rd., Riverwood. 2210	36982	1975	Premise Match	46m	South East
	SECOND-HAND DEALERS.	Val., Anthony Bazaar., 284 Belmore Rd., Riverwood. 2210	76492	1975	Premise Match	46m	South East
	ANTIQUE DEALERS.	Val-Anthony Bazaar, 284 Belmore Rd., Riverwood. 2210.	2638	1975	Premise Match	46m	South East
	PAWNBROKERS &/OR MONEY LENDERS.	Val-Anthony Bazaar., 284 Belmore Rd., Riverwood. 2210	66299	1975	Premise Match	46m	South East
	FURNITURE-HOUSEHOLD-RETAILERS	Cumberland Furnishing Co. (Retail) Pty. Ltd., 284 Belmore Rd., Riverwood	317734	1961	Premise Match	46m	South East
18	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Du Kiss Smart Fabrics Pty. Ltd., 341 Belmore Rd., Riverwood.2210	17082	1986	Premise Match	48m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
18	DRESS SHOPS & ACCESSORIES.(D7450)	Du Kiss Smart Fabrics Pty. Ltd., 341 Belmore Rd., Riverwood. 2210.	22727	1982	Premise Match	48m	South East
	DRESS SHOPS & ACCESSORIES.	Du Kiss Smart Fabrics Pty. Ltd., 341 Belmore Rd., Riverwood. 2210	20053	1978	Premise Match	48m	South East
	Dry Cleaners, Pressers/Dyers	Delmar Dry Cleaners, 339-341 Belmore Rd., Riverwood	76137	1965	Premise Match	48m	South East
19	PLUMBERS, GASFITTERS &/OR DRAINLAYERS.	Hughes, D. & A., 1 Union St., Riverwood. 2210	58168	1978	Premise Match	50m	South West
	PLUMBERS, GASFITTERS &/OR DRAINLAYERS.	Hughes, D. & A., 1 Union St., Riverwood. 2210	68476	1975	Premise Match	50m	South West
	PLUMBERS,GASFITTERS/DRAINLAYERS(P608)	Hughes, D., 1 Union St., RIVERWOOD	350603	1970	Premise Match	50m	South West
20	TRAVEL AGENCIES &/OR BOOKING OFFICES.	Riverwood Travel Service, 282 Belmore Rd., Riverwood. 2210.	95565	1986	Premise Match	51m	South East
	UPHOLSTERERS.	Riverwood Upholsterers, 282 Belmore Rd., Riverwood. 2210	73144	1978	Premise Match	51m	South East
	UPHOLSTERERS.	Riverwood Upholsterers, 282 Belmore Rd, Riverwood. 2210	85819	1975	Premise Match	51m	South East
	UPHOLSTERERS (U050)	Riverwood Upholsterers, 282 Belmore Rd., Riverwood	372123	1970	Premise Match	51m	South East
	Fruiterers & Greengrocers	Bee Jay Fruit Market (The), 282 Belmore Rd., Riverwood	90857	1965	Premise Match	51m	South East
	FRUITERERS/GREENGROCERS	Morris, Cec, 282 Belmore Rd., Riverwood	315852	1961	Premise Match	51m	South East
21	FRUITERERS &/OR GREENGROCERS.	Greenapple, 339 Belmore Rd., Riverwood. 2210	36027	1986	Premise Match	54m	South East
	Newsagents	Riverwood Newsagency, 339 Belmore Rd., Riverwood	128428	1965	Premise Match	54m	South East
22	TRAVEL AGENCIES &/OR BOOKING OFFICES. (T7425)	Riverwood Travel Service, 280 Belmore Rd., Riverwood. 2210.	82098	1982	Premise Match	56m	South East
	ELECTRICAL SUPPLIES &/OR APPLIANCES-RETAIL	Gillis Bros., 280 Belmore Rd., Riverwood. 2210	26333	1975	Premise Match	56m	South East
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Gillis Bros., 276-280 Belmore Rd., Riverwood	295681	1970	Premise Match	56m	South East
	DRAPERS-RETAIL (D540)	Riverwood Bargain Store., 280 Belmore Rd., Riverwood	290580	1970	Premise Match	56m	South East
	Radio &/Or Television Hirers	Gillis Bros. Radio & T.V. Pty. Ltd., 276-280 Belmore Rd., Riverwood	137882	1965	Premise Match	56m	South East
	Motor Car Radio Specs.	Gillis Bros. Radio & T. V. Pty. Ltd., 276-280 Belmore Rd., Riverwood	121193	1965	Premise Match	56m	South East
	Electrical Supplies/Appliances Retailers	Gillis Bros., 276-280 Belmore Rd., Riverwood	79448	1965	Premise Match	56m	South East
	Music - Sheet, Gramophone Records - Dealers	Gillis Bros., 276-280 Belmore Rd., Riverwood	127560	1965	Premise Match	56m	South East
	Radio &/Or Television Sales & Servicemen	Gillis Bros., 276-280 Belmore Rd. Riverwood	138385	1965	Premise Match	56m	South East
	RADIO &/OR TELEVISION SALES & SERVICEMEN	Gillis Bros., 276-280 Belmore Rd. RIVERWOOD	364449	1961	Premise Match	56m	South East
	ELECTRICAL SUPPLIES/APPLIANCES RETAILERS	Gillis Bros., 276-280 Belmore Rd., Riverwood	303158	1961	Premise Match	56m	South East
	MUSIC—SHEET, GRAMOPHONE RECORDS—DEALERS	Gillis Bros., 276-280 Belmore Rd., Riverwood	352872	1961	Premise Match	56m	South East
23	Real Estate Agents	Riverwood Real Estate., 337 Belmore Rd., Riverwood. 2210	60716	1991	Premise Match	60m	South East
	PROPERTY MANAGEMENT.	Riverwood Real Estate, 337 Belmore Rd., Riverwood. 2210	77925	1986	Premise Match	60m	South East
	REAL ESTATE AGENTS.	Riverwood Real Estate, 337 Belmore Rd., Riverwood. 2210	80120	1986	Premise Match	60m	South East
	PROPERTY MANAGEMENT. (P9060)	Riverwood Real Estate, 337 Belmore Rd., Riverwood. 2210.	67565	1982	Premise Match	60m	South East
	REAL ESTATE AGENTS. (R2555)	Riverwood Real Estate, 337 Belmore Rd., Riverwood. 2210.	69645	1982	Premise Match	60m	South East
	REAL ESTATE AGENTS &/OR VALUERS.	Riverwood Real Estate, 337 Belmore Rd, Riverwood. 2210	62187	1978	Premise Match	60m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
23	PROPERTY MANAGEMENT.	Riverwood Real Estate, 337 Belmore Rd., Riverwood. 2210	60343	1978	Premise Match	60m	South East
	PROPERTY MANAGEMENT.	Riverwood Real Estate., 337 Belmore Rd., Riverwood. 2210	70787	1975	Premise Match	60m	South East
	REAL ESTATE AGENTS &/OR VALUERS.	Riverwood Real Estate., 337 Belmore Rd., Riverwood. 2210	72897	1975	Premise Match	60m	South East
	REAL ESTATE AGENTS/VALUERS(R205)	Riverwood Real Estate, 337 Belmore Rd., Riverwood	355955	1970	Premise Match	60m	South East
	AUCTIONEERS-GENERAL (A620)	Riverwood Real Estate., 337 Belmore Rd., Riverwood	263696	1970	Premise Match	60m	South East
	AUCTIONEERS-REAL ESTATE (A625)	Riverwood Real Estate., 337 Belmore Rd., Riverwood	263830	1970	Premise Match	60m	South East
	BUSINESS AGENTS &/OR BROKERS(B852)	Riverwood Real Estate., 337 Belmore Rd., Riverwood	272890	1970	Premise Match	60m	South East
	PROPERTY MANAGEMENT (P868)	Riverwood Real Estate., 337 Belmore Rd., Riverwood	353194	1970	Premise Match	60m	South East
	Frock & Coat Salons	Cherry Fashions, 337 Belmore Rd., Riverwood	89784	1965	Premise Match	60m	South East
	FROCK & COAT SALONS	"Dianne" Frock Salon, 337 Belmore Rd., Riverwood	313919	1961	Premise Match	60m	South East
24	BUILDERS &/OR BUILDING CONTRACTORS.	Bona Builders Pty. Ltd., 278 Belmore Rd., Riverwood. 2210	8001	1986	Premise Match	62m	South East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	El-Cees, 278 Belmore Rd., Riverwood.2210	17103	1986	Premise Match	62m	South East
	TRAVEL AGENCIES &/OR BOOKING OFFICES.	Riverwood Travel Service, 278 Belmore Rd., Riverwood. 2210.	95566	1986	Premise Match	62m	South East
	ACCOUNTANTS & AUDITORS.	Smith, B. O. & Son, 278 Belmore Rd., Riverwood. 2210	998	1986	Premise Match	62m	South East
25	MEDICAL PRACTITIONERS.	Kapoor, P., 4 Hannans Rd., Riverwood. 2210	55671	1986	Premise Match	64m	East
26	GIFT SHOPS.	Red Umbrella, The, 53 Josephine St., Riverwood. 2210	39432	1986	Premise Match	64m	South East
	PICTURE FRAME MFRS. &/OR PICTURE FRAMERS.	Red Umbrella, The, 53 Josephine St., Riverwood. 2210	73755	1986	Premise Match	64m	South East
27	NEWSAGENTS.	Gilbert, J., 335 Belmore Rd., Riverwood. 2210	69345	1986	Premise Match	66m	South East
	NEWSAGENTS. (N0800)	Williamson, J. S., 335 Belmore Rd., Riverwood. 2210.	60904	1982	Premise Match	66m	South East
	BOOKSELLERS RETAIL	Colli's Newsagency, 335 Belmore Rd., Riverwood. 2210.	7292	1975	Premise Match	66m	South East
	NEWSAGENTS-GENERAL	Colli's Newsagency., 335 Belmore Rd., Riverwood. 2210	63473	1975	Premise Match	66m	South East
	STATIONERS-RETAIL	Col's Newsagency., 335 Belmore Rd., Riverwood. 2210	79909	1975	Premise Match	66m	South East
	STATIONERS-RETAIL (S516)	McLennan's Newsagency, 335 Belmore Rd., Riverwood	364677	1970	Premise Match	66m	South East
	TOBACCONISTS-RETAIL	McLennan's Newsagency, 335 Belmore Rd., Riverwood	369297	1970	Premise Match	66m	South East
	BOOKSELLERS-RETAIL	McLennan's Newsagency., 335 Belmore Rd., Riverwood	268450	1970	Premise Match	66m	South East
	NEWSAGENTS (N100)	McLennan's Newsagency., 335 Belmore Rd., Riverwood	343703	1970	Premise Match	66m	South East
	BOOKSELLERS---RETAIL	McLennan's Newsagency, 335 Belmore Rd., Riverwood	52842	1965	Premise Match	66m	South East
	Newsagents	McLennan's Newsagency, 335 Belmore Rd., Riverwood	128296	1965	Premise Match	66m	South East
	STATIONERS—RETAIL	McLennan's Newsagency, 335 Belmore Rd., Riverwood	147585	1965	Premise Match	66m	South East
	TOBACCONISTS—RETAIL	McLennan's Newsagency, 335 Belmore Rd., Riverwood	152175	1965	Premise Match	66m	South East
28	DENTISTS.	B G. King, 276 Belmore Rd., Riverwood. 2210	22266	1986	Premise Match	67m	South East
	DENTISTS.	King, G., 276 Belmore Rd., Riverwood. 2210	22840	1986	Premise Match	67m	South East
	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 276 Belmore Rd., Riverwood. 2210	25383	1986	Premise Match	67m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
28	DENTISTS.	Louw, P. G. J., 276 Belmore Rd., Riverwood. 2210	22933	1986	Premise Match	67m	South East
	DENTISTS. (D1800)	King, G., 276 Belmore Rd., Riverwood. 2210.	20438	1982	Premise Match	67m	South East
	DENTISTS.	Walsh, I. M., 276 Belmore Rd., Riverwood. 2210	18578	1978	Premise Match	67m	South East
	DENTISTS.	King, B. G., 276 Belmore Rd., Riverwood. 2210	21098	1975	Premise Match	67m	South East
	Washing Machine Sales/Service	Gillis Bros. Radio & TV Pty. Ltd., 276 Belmore Rd., Riverwood	155890	1965	Premise Match	67m	South East
29	FOOTWEAR RETAILERS.	La Trobe Shoes, 333 Belmore Rd., Riverwood. 2210	34860	1986	Premise Match	72m	South East
	FOOTWEAR RETAILERS (F5575)	La Trobe Shoes, 333 Belmore Rd., Riverwood. 2210.	32498	1982	Premise Match	72m	South East
	FOOTWEAR RETAILERS.	La Trobe Shoes, 333 Belmore Rd., Riverwood. 2210	29397	1978	Premise Match	72m	South East
	Second - Hand Dealers	Lawrie, T., 333 Belmore Rd., Riverwood	143505	1965	Premise Match	72m	South East
	Drapers - Retail	Riverwood Bargain Store, 333 Belmore Rd., Riverwood	75267	1965	Premise Match	72m	South East
	DRAPERS-RETAIL	Morrison, C., 333 Belmore Rd., Riverwood	298040	1961	Premise Match	72m	South East
30	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	25380	1986	Premise Match	73m	South East
	DRY CLEANERS & PRESSERS.(D8500)	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210.	23928	1982	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	20835	1978	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Spotless Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	24346	1975	Premise Match	73m	South East
	MOTOR CYCLE SALES/SERVICE (M596)	B. D. S. Motor Cycles., 274 Belmore Rd., Riverwood	336601	1970	Premise Match	73m	South East
	Florists - Retail	Elvira Joy Floral Service, 274 Belmore Rd. Riverwood	87827	1965	Premise Match	73m	South East
31	CHEMISTS-PHARMACEUTICAL.	Burkes Riverwood Pharmacy, 272 Belmore Rd., Riverwood. 2210	14019	1986	Premise Match	78m	South East
	CHEMISTS - PHARMACEUTICAL.(C4110)	Burkes Riverwood Pharmacy, 272 Belmore Rd., Riverwood. 2210.	14818	1982	Premise Match	78m	South East
	CHEMISTS-PHARMACEUTICAL.	Burkes Riverwood Pharmacy, 272 Belmore Rd., Riverwood. 2210	13010	1978	Premise Match	78m	South East
	CHEMISTS-PHARMACEUTICAL	Riverwood Pharmacy, 272 Belmore Rd., Riverwood. 2210	15835	1975	Premise Match	78m	South East
	CHEMISTS-PHARMACEUTICAL	Riverwood Pharmacy., 272 Belmore Rd., Riverwood	281051	1970	Premise Match	78m	South East
	Chemists - Pharmaceutical	Riverwood Pharmacy, 272 Belmore Rd., Riverwood	65552	1965	Premise Match	78m	South East
	CHEMISTS-PHARMACEUTICAL	Riverwood Pharmacy, 272 Belmore Rd., Riverwood	288047	1961	Premise Match	78m	South East
32	TAXATION CONSULTANTS.	H & R Block, 331A Belmore Rd., Riverwood. 2210	92242	1986	Premise Match	79m	South East
	FLORISTS-RETAIL.	Riverwood Florist, 331 Belmore Rd., Riverwood. 2210	33886	1986	Premise Match	79m	South East
	FLORISTS - RETAIL. (F4125)	Riverwood Florist, 331 Belmore Rd., Riverwood. 2210.	31594	1982	Premise Match	79m	South East
	Pawnbrokers/Moneylenders	Lawrie, T., 331 Belmore Rd., Riverwood	131973	1965	Premise Match	79m	South East
	DRAPERS-RETAIL	Robin Wear, 331 Belmore Rd., Riverwood	298111	1961	Premise Match	79m	South East
33	ANIMAL &/OR BIRD DEALERS.	Anthony's Pet Pantry, 270 Belmore Rd., Riverwood. 2210	2449	1978	Premise Match	84m	South East
	HAIRDRESSERS (GENT.'S) (H070)	Julians., 270a Belmore Rd., Riverwood	314062	1970	Premise Match	84m	South East
	ANIMAL & BIRD FOOD SUPPLIES (A375)	Pets Pantry, 270 Belmore Rd, Riverwood	261583	1970	Premise Match	84m	South East
	Hairdressers (Gent.'s)/Tobacconists	Mirarchi, Gino., 270a Belmore Rd., Riverwood	98323	1965	Premise Match	84m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
34	Photographers General	Spectra Photographics, 329 Belmore Rd Riverwood 2210	57342	1991	Premise Match	85m	South East
	PHOTOGRAPHIC DEVELOPING, PRINTING &/OR COLOURING SERVICES.	Spectra Colour Laboratories, 329 Belmore Rd., Riverwood. 2210	73109	1986	Premise Match	85m	South East
	PHOTOGRAPHIC EQUIPMENT &/OR SUPPLIES - W/SALERS &/OR DEALERS.	Spectra Photographic 329 Belmore Rd., Riverwood. 2210	73381	1986	Premise Match	85m	South East
	PHOTOGRAPHERS – GENERAL.	Spectra Photographics, 329 Belmore Rd., Riverwood. 2210	72994	1986	Premise Match	85m	South East
	PHOTOGRAPHIC DEVELOPING,PRINTING &/OR COLOURING SERVICES. (P3780)	Spectra Colour Laboratories, 329 Belmore Rd., Riverwood. 2210.	63705	1982	Premise Match	85m	South East
	PHOTOGRAPHERS - GENERAL(P3540)	Spectra Photographies, 329 Belmore Rd., Riverwood. 2210.	63635	1982	Premise Match	85m	South East
	PHOTOGRAPHERS - GENERAL(P3540)	Spectrum Photographies, 329 Belmore Rd., Riverwood. 2210.	63636	1982	Premise Match	85m	South East
	PHOTOGRAPHIC SUPPLIES. (P3940)	Spectrum Photographies, 329 Belmore Rd., Riverwood. 2210.	63893	1982	Premise Match	85m	South East
	BABY &/OR CHILDRENS WEAR- RETAIL.	Cindy-Kay Boutique, 329 Belmore Rd., Riverwood. 2210	3998	1978	Premise Match	85m	South East
	BABY &/OR CHILDRENS WEAR- RETAIL	Tiny Togs, 329 Belmore Rd., Riverwood. 2210	3953	1975	Premise Match	85m	South East
	BABY & CHILDREN'S WEAR- RETAIL(B005)	Tiny Togs., 329 Belmore Rd., Riverwood	264298	1970	Premise Match	85m	South East
	Baby & Children's Wear - Retail	Tiny Togs., 329 Belmore Rd., Riverwood	49029	1965	Premise Match	85m	South East
	NEWSAGENTS	Hunter Bros., 329 Belmore Rd., Riverwood	353216	1961	Premise Match	85m	South East
	STATIONERS-RETAIL	Hunter Bros., 329 Belmore Rd., Riverwood	253005	1961	Premise Match	85m	South East
35	CURTAIN MFRS. &/OR W/SALERS.	Lawson Curtains, 40b Coleridge St., Riverwood. 2210	16747	1978	Premise Match	88m	South East
	HEALTH FOODS-RETAIL.	Vincent, S. H., 40c Coleridge St., Riverwood. 2210	35422	1978	Premise Match	88m	South East
	CURTAIN MFRS.	Lawson Curtains, 40b Coleridge St., Riverwood. 2210	19379	1975	Premise Match	88m	South East
	HEALTH FOODS-RETAIL	Riverwood Bulk & Hearth Foods, 40c Coleridge St., Riverwood. 2210	41881	1975	Premise Match	88m	South East
	MASSEURS/MASSEUSES (M152)	Colnic Hydro Therapy., 40b Coleridge St., Riverwood	325701	1970	Premise Match	88m	South East
	HEALTH FOOD RETAILERS (H350)	Riverwood Bulk & Health Foods., 40c Coleridge St., Riverwood	316050	1970	Premise Match	88m	South East
36	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Jullian Hairdressing Salon, 268 Belmore Rd., Riverwood. 2210	42524	1986	Premise Match	90m	South East
	HAIRDRESSERS-MENS.	Jullian Hairdressing Salon, 268 Belmore Rd., Riverwood. 2210	43838	1986	Premise Match	90m	South East
	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Lillian, 268 Belmore Rd., Riverwood. 2210	42652	1986	Premise Match	90m	South East
	BEAUTICIANS.	Riverwood Beauty Clinic, 268A Belmore Rd, Riverwood. 2210	5837	1986	Premise Match	90m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS. (B2000)	Jullian Hairdressing Salon, 268 Belmore Rd., Riverwood. 2210.	5989	1982	Premise Match	90m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Lillian Hairdressing Salon. 268 Belmore Rd., Riverwood. 2210	5255	1978	Premise Match	90m	South East
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Lillian Hairdressing Salon, 268 Belmore Rd., Riverwood. 2210.	5558	1975	Premise Match	90m	South East
	DENTISTS (D140)	King, B. G., 268 Belmore Rd., Riverwood (& Kingsgrove)	288740	1970	Premise Match	90m	South East
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Lillian Hairdressing Salon., 268 Belmore Rd., Riverwood	266196	1970	Premise Match	90m	South East
	Milk, Fruit Juice Bars/Confectioners	Defina's Milk Bar, 268 Belmore Rd., Riverwood	114993	1965	Premise Match	90m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
36	Dentists	King, B. G., 268 Belmore Rd., Riverwood (& Kingsgrove)	73489	1965	Premise Match	90m	South East
	Beauty Salons &/or Ladies Hairdressers	Lillian Hairdressing Salon., 268 Belmore Rd., Riverwood	50867	1965	Premise Match	90m	South East
	MILK, FRUIT JUICE BARS/CONFECTIONERS	Defina's Milk Bar, 268 Belmore Rd., Riverwood	339027	1961	Premise Match	90m	South East
	DENTISTS	King, B. G., 268 Belmore Rd., Riverwood (& Kingsgrove)	296106	1961	Premise Match	90m	South East
	BEAUTY SALONS & LADIES' HAIRDRESSERS	Lillian Hairdressing Salon, 268 Belmore Rd., Riverwood	272558	1961	Premise Match	90m	South East
37	SEWING MACHINE SALES &/OR SERVICE.	Riverwood Sewing Centre, 325 Belmore Rd., Riverwood. 2210	85857	1986	Premise Match	91m	South East
	SEWING MACHINE SALES &/ORSERVICE. (S2280)	Beverly Hills Riverwood Sewing Centre, 325 Belmore Rd., Riverwood. 2210.	74128	1982	Premise Match	91m	South East
	CAKE SHOPS &/OR PASTRYCOOKS. (C0465)	Isons' Cakes. 327 Belmore Rd., Riverwood. 2210.	12650	1982	Premise Match	91m	South East
	SEWING MACHINE DEALERS.	Beverly Hills Riverwood Sewing Centre, 325 Belmore Rd., Riverwood. 2210	65526	1978	Premise Match	91m	South East
	CAKE SHOPS &/OR PASTRYCOOKS.	Calafatis. P. & E., 327 Belmore Rd., Riverwood. 2210	10743	1978	Premise Match	91m	South East
	CAKE SHOPS &/OR PASTRYCOOKS.	Isons of Riverwood, 327 Belmore Rd., Riverwood. 2210	12604	1975	Premise Match	91m	South East
	CAKE SHOPS & PASTRYCOOKS (C045)	Isons of Riverwood., 327 Belmore Rd., Riverwood	276603	1970	Premise Match	91m	South East
	DELICATESSENS (D080)	Riverwood Delicatessen., 325 Belmore Rd., Riverwood	287883	1970	Premise Match	91m	South East
	Frock & Coat Salons	Dowles Frock Shop, 1 Truscott Hse., 327a Belmore Rd., Riverwood	89834	1965	Premise Match	91m	South East
	Dressmakers/Costumiers	Geneva Styles, 4 Truscott Hse., 327a Belmore Rd., Riverwood	75721	1965	Premise Match	91m	South East
	Cake Shops & Pastrycooks	Isons of Riverwood., 327 Belmore Rd., Riverwood	61307	1965	Premise Match	91m	South East
	DELICATESSENS	Riverwood Delicatessen, 325 Belmore Rd., Riverwood	72651	1965	Premise Match	91m	South East
	CAKE SHOPS & PASTRYCOOKS	Du May Cakes, 327 Belmore Rd., Riverwood	282958	1961	Premise Match	91m	South East
	DELICATESSENS	Riverwood Delicatessen, 325 Belmore Rd., Riverwood	295209	1961	Premise Match	91m	South East
38	DELICATESSENS.	Brown, L. & A., 266 Belmore Rd., Riverwood. 2210	21561	1986	Premise Match	95m	South East
	DELICATESSENS, (D1250)	Brown, L. & A., 266 Belmore Rd., Riverwood. 2210.	19281	1982	Premise Match	95m	South East
	DELICATESSENS.	Brown. L. & A., 266 Belmore Rd., Riverwood. 2210	17314	1978	Premise Match	95m	South East
	DELICATESSENS	Horton's Continental, 266 Belmore Rd., Riverwood. 2210	20234	1975	Premise Match	95m	South East
	DELICATESSENS (D080)	Horton's Continental., 266 Belmore Rd., Riverwood	287525	1970	Premise Match	95m	South East
	DELICATESSENS	Horton's Continental, 266 Belmore Rd., Riverwood	72293	1965	Premise Match	95m	South East
	DELICATESSENS	Goyen, R. & M., 266 Belmore Rd., Riverwood	294842	1961	Premise Match	95m	South East
39	MEDICAL PRACTITIONERS.	Hardie, R., 264 Belmore Rd., Riverwood. 2210	55254	1986	Premise Match	101m	South East
	MEDICAL PRACTITIONERS.	Harrison, B., 264 Belmore Rd., Riverwood. 2210	55279	1986	Premise Match	101m	South East
	MEDICAL PRACTITIONERS.	Salmon, Judith, 264 Belmont Rd., Riverwood. 2210	57373	1986	Premise Match	101m	South East
	MEDICAL PRACTITIONERS. (M2020)	Hardie, R., 264 Belmore Rd., Riverwood. 2210.	48451	1982	Premise Match	101m	South East
	MEDICAL PRACTITIONERS. (M2020)	Harrison, B., 264 Belmore Rd., Riverwood. 2210.	48472	1982	Premise Match	101m	South East
	MEDICAL PRACTITIONERS.	Dent, M., 264 Belmore Rd., Riverwood. 2210	42632	1978	Premise Match	101m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
39	MEDICAL PRACTITIONERS.	Hardie. R., 264 Belmore Rd., Riverwood. 2210	43056	1978	Premise Match	101m	South East
	FRUITERERS/GREENGROCER S	Herne Bay Fruit Stall, 264 Belmore Rd., Riverwood	315522	1961	Premise Match	101m	South East
40	CHEMISTS-PHARMACEUTICAL.	Belmore Rd. Pharmacy, 323 Belmore Rd., Riverwood. 2210	13960	1986	Premise Match	103m	South East
	CHEMISTS - PHARMACEUTICAL.(C4110)	Belmore Rd. Pharmacy, 323 Belmore Rd., Riverwood. 2210.	14756	1982	Premise Match	103m	South East
	CHEMISTS-PHARMACEUTICAL.	Belmore Rd. Pharmacy, 323 Belmore Rd., Riverwood. 2210	12955	1978	Premise Match	103m	South East
	CHEMISTS-PHARMACEUTICAL	Belmore Rd. Pharmacy, 323 Belmore Rd., Riverwood. 2210.	14988	1975	Premise Match	103m	South East
	CHEMISTS-PHARMACEUTICAL	Belmore Road Pharmacy., 323 Belmore Rd., Riverwood	280061	1970	Premise Match	103m	South East
	CHEMISTS-PHARMACEUTICAL	Nelson, G. W., 323 Belmore Rd., Riverwood	280871	1970	Premise Match	103m	South East
	Chemists - Pharmaceutical	Belmore Road Pharmacy, 323 Belmore Rd., Riverwood	64723	1965	Premise Match	103m	South East
	Chemists - Pharmaceutical	Nelson, G. W., 323 Belmore Rd., Riverwood	65403	1965	Premise Match	103m	South East
	CHEMISTS-PHARMACEUTICAL	Belmore Road Pharmacy, 323 Belmore Rd., Riverwood	287332	1961	Premise Match	103m	South East
	CHEMISTS-PHARMACEUTICAL	Belmore Road Pharmacy, 323 Belmore Rd., Riverwood	287332	1961	Premise Match	103m	South East
41	MERCERS—MEN'S & BOYS' OUTFITTERS	Taylor's Men's Wear, 262 Belmore Rd. .Riverwood	337148	1961	Premise Match	107m	South East
42	Builders & Contractors	Loots, F., 77 Coleridge St., Riverwood	55437	1965	Premise Match	121m	South
43	MILK BARS & CONFECTIONERS	Riverview Store (H. J. Underwood)., Belmore Rd. and Coleridge St., Herne Bay	77279	1950	Road Intersection	122m	South East
	MIXED BUSINESSES & GENERAL STORES	Riverview Store (H. J. Underwood, Propr.), Belmore Rd. and Coleridge St., Herne Bay	80872	1950	Road Intersection	122m	South East
	MIXED BUSINESSES & GENERAL STORES	Underwood, H. J., Coleridge St. and Belmore Rd., Herne Bay	81165	1950	Road Intersection	122m	South East
44	Plastic Goods Mfrs &/or Imps &/or Dists	Helio Plastics Pty. Ltd., 8 Schofield St., Riverwood. 2210	57927	1991	Premise Match	127m	North
	PLASTIC GOODS MFRS. &/OR DISTS.	Helio Plastics Pty. Ltd., 8 Schofield St., Riverwood. 2210	74472	1986	Premise Match	127m	North
	PLASTIC MFRS. &/OR MOULDERS.	Hello Plastics Pty, Ltd., 8 Schofield St., Riverwood. 2210	74670	1986	Premise Match	127m	North
	CARRIERS &/OR CARTAGE CONTRACTORS. (C2115)	Douglas Express, 8 Schofield St., Riverwood. 2210.	13656	1982	Premise Match	127m	North
	CARRIERS &/OR CARTAGE CONTRACTORS.	Douglas. L. E. (Carriers) Pty. Ltd., 8 Schofield St., Riverwood. 2210	11773	1978	Premise Match	127m	North
	AWNINGS-ALUMINIUM-MFRS. &/OR DISTS.	Koolashade Venetian Blinds, 8 Schofields St., Riverwood	263955	1970	Premise Match	127m	North
	BLIND MFRS. &/OR SPECIALISTS (B410)	Koolashade Venetian Blinds., 8 Schofield St., Riverwood	267165	1970	Premise Match	127m	North
	BLIND MFRS.-CANVAS & AWNING (B400)	Koolashade Venetian Blinds., 8 Schofield St., Riverwood	267245	1970	Premise Match	127m	North
	BLIND MFRS.-VENETIAN (B420)	Koolashade Venetian Blinds., 8 Schofield St., Riverwood	267326	1970	Premise Match	127m	North
	FLY SCREENS, DOORS/WINDOWS - MFRS. &/OR DISTRIBUTORS	Koolashade Venetian Blinds., 8 Schofield St., Riverwood	304703	1970	Premise Match	127m	North
	BLIND MFRS.-HOLLAND (B405)	Koolashade Venetian Blinds., 8 Schofield St., Riverwood, 2210	267283	1970	Premise Match	127m	North
	CURTAIN RAILS, RODS & RINGS MANUFACTURERS (C774)	Koolashade Venetian Blinds., 8 Schofield St., Riverwood, 2210	286469	1970	Premise Match	127m	North
	Carriers & Cartage Contractors	Douglas, L. E. (Carriers) Pty. Ltd., 8 Schofield St., Riverwood	62977	1965	Premise Match	127m	North
45	RADIO SALES &/OR SERVICEMEN	Mason, J. M., 27 Coleridge St., Herne Bay	97415	1950	Premise Match	128m	South East
46	Clothes Hoist Mfrs &/or Dists	Hills Industries Ltd., 12 Wiggs Rd., Riverwood 2210	39188	1991	Premise Match	130m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
46	CLOTHES HOIST MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	15581	1986	Premise Match	130m	North
	COMMUNICATION SYSTEMS MFRS. &/OR IMPS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	19190	1986	Premise Match	130m	North
	COMPUTER EQUIPMENT MAINTENANCE & SERVICE.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	19354	1986	Premise Match	130m	North
	FIRE PROTECTION APPLIANCES MFRS. &/OR ENGINEERS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	32972	1986	Premise Match	130m	North
	GARDEN EQUIPMENT, TOOLS & SUPPLIES MFRS. &/OR IMPS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	38258	1986	Premise Match	130m	North
	GYMNASIUM EQUIPMENT MFRS. &/OR DEALERS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	41361	1986	Premise Match	130m	North
	MOTOR EXHAUST SYSTEMS MFRS. &/OR DISTS. &/OR FITTERS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	63746	1986	Premise Match	130m	North
	RADIO &/OR TELEVISION COMPONENT PARTS, MFRS. &/OR IMPS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	78697	1986	Premise Match	130m	North
	SAFETY EQUIPMENT MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	84170	1986	Premise Match	130m	North
	SECURITY DOORS & GRILLES.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	85595	1986	Premise Match	130m	North
	SPRAYING EQUIPMENT MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	87768	1986	Premise Match	130m	North
	STEEL TUBING MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	89266	1986	Premise Match	130m	North
	TELEVISION - CLOSED CIRCUIT MFRS. &/OR IMPS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	92619	1986	Premise Match	130m	North
	TELEVISION ANTENNAE MFRS. &/OR INSTALLERS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	92599	1986	Premise Match	130m	North
	TRAMPOLINE MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	95013	1986	Premise Match	130m	North
	BALUSTRADING.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	5273	1986	Premise Match	130m	North
	LAUNDRY MACHINERY &/OR EQUIPMENT MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	51305	1986	Premise Match	130m	North
	TELEVISION ANTENNAE MFRS. &/OR INSTALLERS. (T1775)	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210.	79402	1982	Premise Match	130m	North
	CLOTHES HOIST MFRS. &/OR DISTS. (C5115)	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210.	16365	1982	Premise Match	130m	North
	GYMNASIUM EQUIPMENT MFRS. &/OR DEALERS. (G8700)	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210.	38261	1982	Premise Match	130m	North
	MOTOR EXHAUST SYSTEMS MFRS. (M6705)	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210.	55854	1982	Premise Match	130m	North
	PLAYGROUND EQUIPMENT MFRS. &/OR DISTS. (P6580)	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210.	65068	1982	Premise Match	130m	North
	STEEL TUBING MFRS. &/OR DISTS. (S6780)	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210.	77210	1982	Premise Match	130m	North
	CLOTHES HOIST ROTARY MFRS. &/OR DISTS.	Hills industries Ltd., 12 Wiggs Rd., Riverwood. 2210	14498	1978	Premise Match	130m	North
	MOTOR EXHAUST SYSTEMS MFRS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	49161	1978	Premise Match	130m	North
	PLAYGROUND EQUIPMENT- MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	58049	1978	Premise Match	130m	North
	STEEL TUBING MFRS. &/OR DISTS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	68408	1978	Premise Match	130m	North
	TELEVISION ANTENNAE MFRS. &/OR INSTALLERS.	Hills Industries Ltd., 12 Wiggs Rd., Riverwood. 2210	69936	1978	Premise Match	130m	North
	RADIO &/OR TELEVISION SALES &/OR SERVICEMEN.	Hills Telefix Services. 12 Wiggs Rd., Riverwood. 2210	61095	1978	Premise Match	130m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
46	ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Peerless Engineering Division of Drysys Equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood	25326	1978	Premise Match	130m	North
	VENTILATION EQUIPMENT MFRS. &/OR DIST.	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood	73458	1978	Premise Match	130m	North
	SHEET METAL WORKERS.	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood. 2210	65831	1978	Premise Match	130m	North
	OVEN MFRS. INDUSTRIAL	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood., 2210	55110	1978	Premise Match	130m	North
	ENGINEERS - GENERAL &/OR MANUFACTURING &/OR MECHANICAL	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd. 12Wiggs Rd. Riverwood.	29284	1975	Premise Match	130m	North
	SHEET METAL WORKERS.	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood	76922	1975	Premise Match	130m	North
	VENTILATION EQUIPMENT MFRS. &/OR DIST.	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood	86133	1975	Premise Match	130m	North
	OVEN MFRS.-INDUSTRIAL	Peerless Engineering Division of Drysys equipment (Aust) Pty. Ltd., 12 Wiggs Rd., Riverwood.	65016	1975	Premise Match	130m	North
	ELECTRODES-WELDER MFRS. &/OR DIST.	Welding Industries of Aust. Pty. Ltd., 12 Wiggs Rd., Riverwood.	26730	1975	Premise Match	130m	North
	WELDING EQUIPMENT HIRERS.	Welding Industries of Aust. Pty. Ltd., 12 Wiggs Rd., Riverwood. 2210	87162	1975	Premise Match	130m	North
	ENGINEERS-GENERAL &/OR MFRG.&/OR MECHANICAL (E615)	Peerless Engineering Pty. Ltd., 12 Wiggs Rd., Riverwood	299485	1970	Premise Match	130m	North
	OVEN MFRS. -INDUSTRIAL (O 340)	Peerless Engineering Pty. Ltd., 12 Wiggs Rd., Riverwood	345622	1970	Premise Match	130m	North
	SHEET METAL WORKERS (S230)	Peerless Engineering Pty. Ltd., 12 Wiggs Rd., Riverwood	360717	1970	Premise Match	130m	North
	SPRAY BOOTHS-PAINTERS'-MFRS.(S452)	Peerless Engineering Pty. Ltd., 12 Wiggs Rd., Riverwood	363746	1970	Premise Match	130m	North
	VENTILATING EQUIPMENT MFRS. &/OR DISTRIBUTORS	Peerless Engineering Pty. Ltd., 12 Wiggs Rd., Riverwood	372547	1970	Premise Match	130m	North
	Die Casters	Channels Products, 12 Wiggs Rd., Riverwood	74174	1965	Premise Match	130m	North
	Engineers General &/or Mfrg. &/or Mechanical	Channels Products., 12 Wings Rd., Riverwood	82211	1965	Premise Match	130m	North
	ORNAMENTAL METAL WORKERS	Democrat Wrought Iron Products., 12 Wiggs Rd., Riverwood	130096	1965	Premise Match	130m	North
	Wrought Iron Workers	Democrat Wrought Iron Products., 12 Wiggs Rd., Riverwood	158421	1965	Premise Match	130m	North
	Automatic Slot Machine Dists. &/or Suppliers	Johnson, L., 12 Wiggs Rd., Riverwood	48642	1965	Premise Match	130m	North
	Automatic Slot Machine Manufacturers	Johnson, L., 12 Wiggs Rd., Riverwood	48619	1965	Premise Match	130m	North
	Engineers - Railway Rolling Stock	Johnson, L., 12 Wiggs Rd., Riverwood	84005	1965	Premise Match	130m	North
	Engineers General &/or Mfrg. &/or Mechanical	Johnson, L., 12 Wiggs Rd., Riverwood	82522	1965	Premise Match	130m	North
	Motor Painters	Zietsch, D., 12 Wiggs Rd., Riverwood	124364	1965	Premise Match	130m	North
	Motor Panel Beaters	Zietsch, D., 12 Wiggs Rd., Riverwood	125139	1965	Premise Match	130m	North
	COOL ROOM BUILDERS	McKenzie, D. N., 12 Wiggs Rd., Riverwood	293081	1961	Premise Match	130m	North
47	MEDICAL PRACTITIONERS.	Annand, A. L., 321 Belmore Rd., Riverwood. 2210	53450	1986	Premise Match	130m	South East
	RADIOLOGISTS.	Farkas, G. S., 321 Belmore Rd., Riverwood. 2210	78899	1986	Premise Match	130m	South East
	PODIATRISTS.	Freeman, C. J. & M. N., 321 Belmore Rd., Riverwood. 2210	75384	1986	Premise Match	130m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
47	PHYSIOTHERAPISTS.	Mignonne Mattner, 321 Belmore Rd., Riverwood. 2210	73561	1986	Premise Match	130m	South East
	MEDICAL PRACTITIONERS.	Muller, S., 321 Belmore Rd., Riverwood. 2210	56616	1986	Premise Match	130m	South East
	MEDICAL PRACTITIONERS.	Sheldon, B., 321 Belmore Rd., Riverwood. 2210	57530	1986	Premise Match	130m	South East
	MEDICAL PRACTITIONERS. (M2020)	Annand, A. L., 321 Belmore Rd., Riverwood. 2210.	46994	1982	Premise Match	130m	South East
	RADIOLOGISTS. (R1540)	Farkas, G. S., 321 Belmore Rd., Riverwood. 2210.	68426	1982	Premise Match	130m	South East
	PATHOLOGISTS. (P2080)	Lim, D., 321 Belmore Rd., Riverwood. 2210.	63111	1982	Premise Match	130m	South East
	PHYSIOTHERAPISTS. (P4060)	Mignonne Mattner, 321 Belmore Rd., Riverwood. 2210.	63999	1982	Premise Match	130m	South East
	PATHOLOGISTS. (P2080)	Orban, T. D., 321 Belmore Rd., Riverwood. 2210.	63113	1982	Premise Match	130m	South East
	PATHOLOGISTS. (P2080)	Shand, W. N., 321 Belmore Rd., Riverwood. 2210.	63116	1982	Premise Match	130m	South East
	MEDICAL PRACTITIONERS. (M2020)	Sheldon, B., 321 Belmore Rd., Riverwood. 2210.	50252	1982	Premise Match	130m	South East
48	Clock &/or Barometer Mfrs &/or Imps &/or Dists	Knowles, Jonathon Designs., 10 Schofield St., Riverwood 2210	39176	1991	Premise Match	133m	North
	Motor Car Detailers	Noel' Detailing Services, Rear 10 Schofield St, Riverwood 2210	52710	1991	Premise Match	133m	North
	FURNITURE-CONTEMPORARY MFRS. &/OR W/SALERS.	Pineapple Furniture Company Pty Ltd., The, 10 Schofield St., Riverwood 2210	36900	1986	Premise Match	133m	North
	FURNITURE-GENERAL-MFRS. &/OR W/SALERS.	Pineapple Furniture Company Pty Ltd., The, 10 Schofield St., Riverwood 2210	37560	1986	Premise Match	133m	North
	FURNITURE-OCCASIONAL-MFRS. &/OR W/SALERS.	Pineapple Furniture Company Pty Ltd., The, 10 Schofield St., Riverwood 2210	37892	1986	Premise Match	133m	North
	CLOCK &/OR BAROMETER MFRS. &/OR IMPS. &/OR DISTS.	Pineapple Furniture Company Pty. Ltd., The, 10 Schofield St., Riverwood. 2210	15562	1986	Premise Match	133m	North
49	FRUITERERS &/OR GREENGROCERS.	Fruit Delight, The, 319 Belmore Rd., Riverwood. 2210	35969	1986	Premise Match	138m	South East
	FRUITERERS &/OR GREENGROCERS. (F6775)	Fruit Delight, The, 319 Belmore Rd., Riverwood. 2210,	33548	1982	Premise Match	138m	South East
	FRUITERERS &/OR GREENGROCERS.	Joes Market, 319 Belmore Rd., Riverwood. 2210.	35398	1975	Premise Match	138m	South East
	FRUITERERS/GREENGROCER S (F640)	Joes Market., 319 Belmore Rd., Riverwood	307290	1970	Premise Match	138m	South East
50	BUTCHERS-RETAIL.	Ryan, M., 29 Keats Ave., Riverwood. 2210	9842	1978	Premise Match	138m	East
51	BUTCHERS-RETAIL.	Max's Tender Meats, 317 Belmore Rd., Riverwood. 2210	10284	1986	Premise Match	144m	South East
	MEDICAL PRACTITIONERS.	Rasanayakam, V., 317 Belmore Rd., Riverwood. 2210	57120	1986	Premise Match	144m	South East
	CHEMISTS-PHARMACEUTICAL.	Springs Pharmacy, 317 Belmore Rd., Riverwood. 2210	14912	1986	Premise Match	144m	South East
	MEDICAL PRACTITIONERS.	Thiru, M., 317 Belmore Rd., Riverwood. 2210	57938	1986	Premise Match	144m	South East
	BUTCHERS - RETAIL. (B8040)	Ferndale Butchery, 317 Belmore Rd., Riverwood. 2210.	10840	1982	Premise Match	144m	South East
	MEDICAL PRACTITIONERS. (M2020)	Sivaprakasam, D., 317 Belmore Rd., Riverwood. 2210.	50327	1982	Premise Match	144m	South East
	CHEMISTS - PHARMACEUTICAL.(C4110)	Springs Pharmacy, 317 Belmore Rd., Riverwood. 2210.	15711	1982	Premise Match	144m	South East
	BUTCHERS-RETAIL.	Ferndale Butchery, 317 Belmore Rd., Riverwood. 2210	9155	1978	Premise Match	144m	South East
	MEDICAL PRACTITIONERS.	Sivaprakasam, D., 317 Belmore Rd., Riverwood. 2210	44292	1978	Premise Match	144m	South East
	CHEMISTS-PHARMACEUTICAL.	Springs Pharmacy, 317 Belmore Rd., Riverwood. 2210	13860	1978	Premise Match	144m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
51	ACCOUNTANTS & AUDITORS.	Eddes, P. C. S., 317 Belmore Rd., Riverwood. 2210.	243	1975	Premise Match	144m	South East
	ACCOUNTANTS & AUDITORS (A040)	Eppes, P.C.S., 317 Belmore Rd., Riverwood	258732	1970	Premise Match	144m	South East
	TAXATION CONSULTANTS/SPECIALISTS (T090)	Eppes, P.C.S., 317 Belmore Rd., Riverwood	367259	1970	Premise Match	144m	South East
	Fruiterers & Greengrocers	Cusumano, V., 317 Belmore Rd., Riverwood	91115	1965	Premise Match	144m	South East
	FRUITERERS/GREENGROCER S	Cusumano & Sons, 317 Belmore Rd., Riverwood	315238	1961	Premise Match	144m	South East
52	BUTCHERS-RETAIL	Coulson. I., 315 Belmore Rd., Riverwood. 2210.	10239	1975	Premise Match	150m	South East
	BUTCHERS-RETAIL (B860)	Coulson, L., 315 Belmore Rd., Riverwood	273421	1970	Premise Match	150m	South East
	Medical Practitioners	Kennedy-Perkins, M. V., 315 Belmore Rd., Riverwood	111835	1965	Premise Match	150m	South East

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

## Business Directory Records 1950-1991

### Road or Area Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
53	MEDICAL PRACTITIONERS (M216)	Fowler, F. W., 401 Belmore Rd., Riverwood	326853	1970	Road Match	0m
	BOOT & SHOE REPAIRERS	Hanna, S. G., 204 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	53332	1965	Road Match	0m
	GROCERS-RETAIL	Calvert & Fogarty, 203 Housing Estate (off Belmore Rd.), Riverwood	320237	1961	Road Match	0m
	GROCERS-RETAIL	Community Grocery (The), 420 Housing Estate (Off Belmore Rd.), Herne Bay	320293	1961	Road Match	0m
	DELICATESSENS	Curtis Delicatessen, 135 Housing Estate (off Belmore Rd.), Riverwood	294726	1961	Road Match	0m
	DRY CLEANERS, PRESSERS / DYERS	Elite Dry Cleaners, 102a Housing Estate, off Belmore Rd., Riverwood	299101	1961	Road Match	0m
	CHEMISTS-PHARMACEUTICAL	Griffin, B. C., 240 Housing Estate (off Belmore Rd.), Riverwood	287631	1961	Road Match	0m
	BOOT & SHOE REPAIRERS	Hanna, S. G., 204 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	274833	1961	Road Match	0m
	CHEMISTS-PHARMACEUTICAL	Irvine, J. J., 240 Housing Estate, off Belmore Rd., Hrn By	287708	1961	Road Match	0m
	BEAUTY SALONS & LADIES' HAIRDRESSERS	Leny (The), (Occasional), 242 Housing Est., Belmore Rd., Riverwood	272553	1961	Road Match	0m
	BOOT & SHOE REPAIRERS	MacRae, Roy., 204 Housing Estate., off Belmore Rd., Riverwood	274986	1961	Road Match	0m
	BUTCHERS-RETAIL	Mahoney, D. J., Housing Estate, Belmore Rd., Riverwood	280705	1961	Road Match	0m
	HAIRDRESSERS (GENT.'S) /TOBACCONISTS	McMaster, A., 137 Housing Estate, Off Belmore Rd., Hrn By	322309	1961	Road Match	0m
	HABERDASHERY-RETAIL	O'Brien, A. M. & Sub-News, 203 Housing Estate, off Belmore Rd., Riverwood	321669	1961	Road Match	0m
	MILK, FRUIT JUICE BARS/CONFECTIONERS	Plowman, J., 203 Housing Estate (Off Belmore Rd.), Riverwood	339512	1961	Road Match	0m
	MILK, FRUIT JUICE BARS/CONFECTIONERS	Rolfe, B. E. & W. G., 238 Housing Estate (Off Belmore Rd.), Herne Bay	339574	1961	Road Match	0m
	FRUITERERS & GREENGROCERS	Abrahams, H. J., Housing Estate, Belmore Rd., Herne Bay	49425	1950	Road Match	0m
	CAKE SHOPS & PASTRYCOOKS	Bass's Hamburgers (L. Bassan, Propr.), Shop 16, Housing Estate, Belmore Rd., Herne Bay	16406	1950	Road Match	0m
	HAMBURGER BARS	Bass's Hamburgers (L. Bassan, Propr.), Shop 16, Housing Estate, Belmore Rd., Herne Bay	60450	1950	Road Match	0m
	FRUITERERS & GREENGROCERS	Brown, A. L., 420b Housing Estate, Belmore Rd., Herne Bay	49675	1950	Road Match	0m
	MILK BARS & CONFECTIONERS	Brown, A. L., 420b Housing Estate, Belmore Rd., Herne Bay	76410	1950	Road Match	0m
	DRY CLEANERS, PRESSERS & DYERS	Browning, G., Housing Estate, Belmore Rd., Herne Bay	35142	1950	Road Match	0m
	FLORISTS-RETAIL	Browning, G., Housing Estate, Belmore Rd., Herne Bay	45803	1950	Road Match	0m
	LIBRARIES-LENDING	Browning, G., Housing Estate, Belmore Rd., Herne Bay	68541	1950	Road Match	0m
	KITCHENWARE RETAILERS	Budden, R. J., 203b Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	66991	1950	Road Match	0m
	GROCERS-RETAIL	Budden, R. J., 203 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	56594	1950	Road Match	0m
	GROCERS-RETAIL	Central Store, Belmore Rd., Herne Bay	56813	1950	Road Match	0m
	GROCERS-RETAIL	Community Grocery., 420 Belmore Rd., Herne Bay	56908	1950	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
53	JUSTICES OF THE PEACE	Emmett, R., 420 Housing Commission Estate, Belmore Rd., Herne Bay	66673	1950	Road Match	0m
	DELICATESSENS & SMALLGOODS DEALERS	Filkins, N. R., Housing Estate, Belmore Rd., Herne Bay	30483	1950	Road Match	0m
	FISH MERCHANTS-RETAIL	Greens Sea Foods, 204 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	44354	1950	Road Match	0m
	BOOT & SHOE REPAIRERS	Hanna, S. G., 204 Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	10241	1950	Road Match	0m
	BUTCHERS-RETAIL	Hart's Butchery, Belmore Rd., Herne Bay	13641	1950	Road Match	0m
	BUTCHERS-RETAIL	Herne Bay Butchery, Belmore Rd., Herne Bay	13686	1950	Road Match	0m
	PICTURE THEATRES-SUBURBAN	Herne Bay Melody, Belmore Rd., Herne Bay	92811	1950	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Herne Bay Produce and Carrying, Belmore Rd., Herne Bay	19012	1950	Road Match	0m
	FUEL MERCHANTS-COAL, COKE & WOOD	Herne Bay Produce and Carrying, Belmore Rd., Herne Bay	51753	1950	Road Match	0m
	PRODUCE MERCHANTS-GRAIN & SEED-RETAIL	Herne Bay Produce and Carrying, Belmore Rd., Herne Bay	95523	1950	Road Match	0m
	NEWSPAPERS & PERIODICALS	Kingsgrove Advertiser, Belmore Rd., Herne Bay	88734	1950	Road Match	0m
	REAL ESTATE AGENTS	Lauff, J., Belmore Rd., Herne Bay	98469	1950	Road Match	0m
	HAIRDRESSERS (GENT'S) &/OR TOBACCONISTS	McMaster, A., Housing Estate, Belmore Rd., Herne Bay	59790	1950	Road Match	0m
	DENTISTS	Morris, G. R., Belmore Rd., Herne Bay	32144	1950	Road Match	0m
	DRAPERS-RETAIL	Murphie, J., 203a Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	33867	1950	Road Match	0m
	FANCY GOODS RETAILERS	Murphie, J., 203a Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	43390	1950	Road Match	0m
	TOY DEALERS-RETAIL	Murphie, J., 203a Shopping Centre, Housing Estate, Belmore Rd., Herne Bay	109535	1950	Road Match	0m
	CHEMISTS-PHARMACEUTICAL	Nelson, G. W., Belmore Rd., Herne Bay	21867	1950	Road Match	0m
	SCHOOLS-KINDERGARTEN & DAY NURSERY	Nursery School, Housing Estate, Belmore Rd., Herne Bay	100965	1950	Road Match	0m
	MERCERS & GENT'S OUTFITTERS	Organ, Ken, Belmore Rd., Herne Bay	74553	1950	Road Match	0m
	FRUITERERS & GREENGROCERS	Orizone Milk Bar, Belmore Rd., Herne Bay	50860	1950	Road Match	0m
	BUTCHERS-RETAIL	Reid, F., 427 Housing Estate, Belmore Rd., Herne Bay	14199	1950	Road Match	0m
	LAUNDRIES	Revesby Laundry, 102 Housing Estate, Belmore Rd., Herne Bay	67697	1950	Road Match	0m
	MILK BARS & CONFECTIONERS	Rolfe, B. E. and W. G., Housing Estate, Belmore Rd., Herne Bay	77290	1950	Road Match	0m
	MILK BARS & CONFECTIONERS	Rolfe, Mrs. B. E., Belmore Rd., Herne Bay	77292	1950	Road Match	0m
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS	Simons, W., Housing Estate, Belmore Rd., Herne Bay	7799	1950	Road Match	0m
54	JOINERY MANUFACTURERS	Bradley & Jones, 170 Union St., Riverwood	329754	1961	Road Match	0m
	SHOP/OFFICE FITTERS	Bradley & Jones, 170 Union St., Riverwood	250007	1961	Road Match	0m
	FIBROUS PLASTER MFRS.	Herne Bay Fibrous Plaster Works Pty. Ltd, 178 Union St., Riverwood	310177	1961	Road Match	0m
55	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Stivaktas, G., Belmore Rd., Riverwood. 2210	46187	1978	Road Match	13m
	GROCERS-RETAIL	Woolworths Ltd., Belmore Rd., Riverwood. 2210	34282	1978	Road Match	13m
	BEAUTY SALONS &/OR LADIES' HAIRDRESSERS (B260)	Eugene Gaal, Belmore Rd., Riverwood.	265857	1970	Road Match	13m
	MEDICAL PRACTITIONERS (M216)	Hardie, R., Belmore Rd., Riverwood	327077	1970	Road Match	13m
	DANCING TEACHERS & STUDIOS (D070)	Hilton, T. & B., 1 Riverwood Chambers, Belmore Rd., Riverwood	286977	1970	Road Match	13m

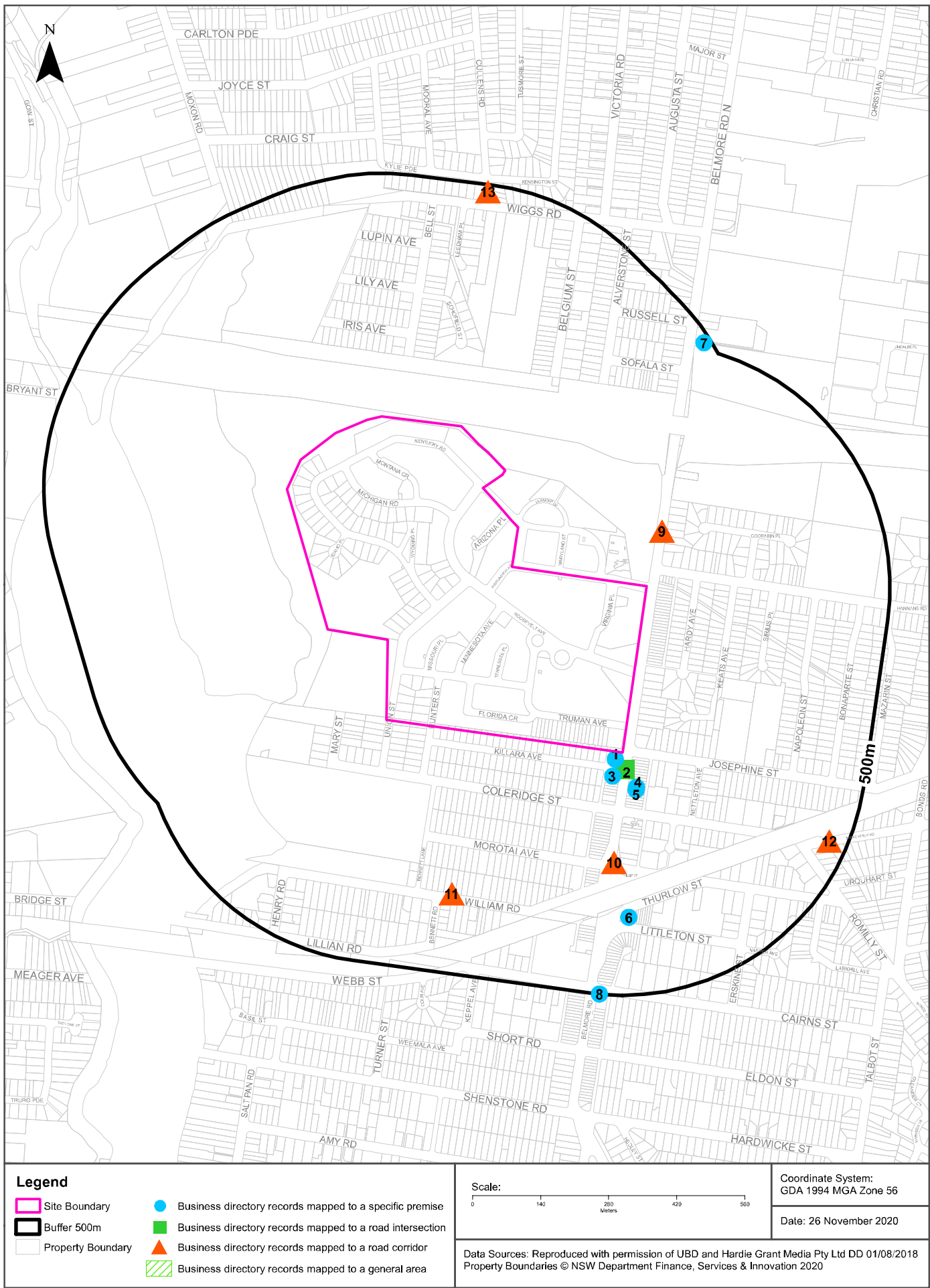
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
55	MOTOR GARAGES & ENGINEERS(M6S6)	Melody Service Station Pty. Ltd., Belmore Rd., Riverwood	338244	1970	Road Match	13m
	MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Melody Service Station Pty. Ltd., Belmore Rd., Riverwood	341936	1970	Road Match	13m
	MOTOR TOWING SERVICES (M744)	Melody Service Station Pty. Ltd., Belmore Rd., Riverwood	342520	1970	Road Match	13m
	MEDICAL PRACTITIONERS (M216)	Monaghan, W., Belmore Rd., Riverwood	327721	1970	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Riverwood Driveway., Belmore Rd., RIVERWOOD	341433	1970	Road Match	13m
	MOTOR WHEEL REPAIRERS/SPECIALISTS (M756)	Riverwood Driveway., Belmore Rd., Riverwood	342773	1970	Road Match	13m
	STATIONERS-RETAIL (S516)	Riverwood Newsagent, Belmore Rd., Riverwood	364757	1970	Road Match	13m
	Fruiterers & Greengrocers	Abrahams, H. J., Off Belmore Rd., Riverwood	90724	1965	Road Match	13m
	Medical Practitioners	Fowler, F. W., 401 Belmore Rd., Riverwood	111405	1965	Road Match	13m
	Motor Garages & Engineers	Melody Service Station Pty. Ltd., Belmore Rd. Riverwood	123303	1965	Road Match	13m
	Motor Spare Parts Dealers - Retail	Melody Service Station Pty. Ltd., Belmore Rd., Riverwood	126561	1965	Road Match	13m
	Motor Towing Services	Melody Service Station Pty. Ltd., Belmore Rd., Riverwood	127119	1965	Road Match	13m
	Furniture Hirers - Weddings/ Parties	Rlverwod Traders., 601 Belmore St., Riverwood	93410	1965	Road Match	13m
	Motor Service Stations - Petrol, Oil, Etc.	Riverwood Driveway, Belmore Rd. Riverwood	126099	1965	Road Match	13m
	Motor Wheel Repairers/Specialists	Riverwood Driveway, Belmore Rd., Riverwood	127381	1965	Road Match	13m
	Motor Painters	Riverwood Service Station, Belmore Rd., Riverwood	124200	1965	Road Match	13m
	Motor Panel Beaters	Riverwood Service Station, Belmore Rd., Riverwood	124965	1965	Road Match	13m
	Motor Towing Services	Riverwood Service Station, Belmore Rd., Riverwood	127138	1965	Road Match	13m
	Motor Engine Reconditioners	Riverwood Service Station., Belmore Rd., Riverwood	121949	1965	Road Match	13m
	Welders - Electric &/or Oxy	Riverwood Service Station., Belmore Rd., Riverwood	156778	1965	Road Match	13m
	Furniture Dealers - Second - Hand	Riverwood Traders, 600 Betamore St., Riverwood	93073	1965	Road Match	13m
	FRUITERERS/GREENGROCER S	Abrahams, H. J., Off Belmore Rd., Riverwood	314910	1961	Road Match	13m
	CHEMISTS-PHARMACEUTICAL	Heme Bay Pharmacy, Belmore Rd., Riverwood	287675	1961	Road Match	13m
	REAL ESTATE AGENTS/VALUERS	M.L.G. Construction, Belmore Rd. RIVERWOOD	245062	1961	Road Match	13m
	PICTURE THEATRES	Riverwood Melody, Belmore Rd., Riverwood	358533	1961	Road Match	13m
	NURSERYMEN	Riverwood Nursery, On Railway Bridge, Belmore Rd., Riverwood	354197	1961	Road Match	13m
	MOTOR GARAGES & ENGINEERS	Riverwood Service Station, Belmore Rd. RIVERWOOD	348030	1961	Road Match	13m
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Riverwood Service Station, Belmore Rd. RIVERWOOD	351028	1961	Road Match	13m
	MOTOR ENGINE RECONDITIONERS	Riverwood Service Station, Belmore Rd., Riverwood	346323	1961	Road Match	13m
	MOTOR PAINTERS	Riverwood Service Station, Belmore Rd., Riverwood	349128	1961	Road Match	13m
	MOTOR PANEL BEATERS	Riverwood Service Station, Belmore Rd., Riverwood	349908	1961	Road Match	13m
	MOTOR TOWING SERVICES	Riverwood Service Station, Belmore Rd., Riverwood	352179	1961	Road Match	13m
	WELDERS-ELECTRIC &/OR OXY	Riverwood Service Station, Belmore Rd., Riverwood	262415	1961	Road Match	13m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
55	FURNITURE DEALERS-SECOND-HAND	Riverwood Traders, 600 Belmore St., Riverwood	317015	1961	Road Match	13m
	FURNITURE HIRERS-WEDDINGS/PARTIES	Riverwood Traders, 601 Belmore St., Riverwood	317055	1961	Road Match	13m
	DENTISTS	Rolfe, C. G., Belmore Rd., Riverwood	296374	1961	Road Match	13m
	KITCHENWARE RETAILERS	Community Grocery, 420 Belmore Rd., Herne Bay	66996	1950	Road Match	13m
	DRAPERS-RETAIL	Organ, Ken, Belmore Rd. (at Station), Herne Bay	33887	1950	Road Match	13m
56	MILK, FRUIT JUICE BARS &/OR CONFECTIONERS.	Chris Mik Bar & Fruit., Hannans Rd., Riverwood. 2210	53306	1975	Road Match	35m
	BEAUTY SALONS &/OR LADIES HAIRDRESSERS.	Madam Oiselle Beaty Salon, Hannans Rd., Riverwood. 2210.	5599	1975	Road Match	35m
	BUTCHERS-RETAIL	Riverdale Meat Co., Hannans Rd., Riverwood. 2210	11072	1975	Road Match	35m
57	MEDICAL PRACTITIONERS.	Hardie, R., Coleridge St., Riverwood. 2210.	50492	1975	Road Match	98m

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

# Dry Cleaners, Motor Garages & Service Stations

Riverwood Estate, Riverwood, NSW 2210



# Historical Business Directories

Riverwood Estate, Riverwood, NSW 2210

## Dry Cleaners, Motor Garages & Service Stations 1948-1993 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES & SERVICE STATIONS.	Ampol Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	18525	1993	Premise Match	13m	South East
	Motor Garages & Service Stations	Ampol Riverwood Service Station, 345 Belmore Rd, Riverwood 2210	53491	1991	Premise Match	13m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	5903	1990	Premise Match	13m	South East
	MOTOR GARAGE & SERVICE STATIONS.	Ampol Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	64390	1989	Premise Match	13m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	53490	1988	Premise Match	13m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	65344	1986	Premise Match	13m	South East
	MOTOR GARAGES & SERVICE STATIONS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	45458	1985	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	34025	1984	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station., 345 Belmore Rd., Riverwood 2210	21480	1983	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS. (M6860)	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210.	57471	1982	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station., 345 Belmore Rd., Riverwood 2210	4012	1981	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	58751	1980	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210.	46248	1979	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station, 345 Belmore Rd., Riverwood. 2210	50748	1978	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS & OR SERVICE STATIONS.	Riverwood Service Station., 345 Belmore Rd., Riverwood 2210	34816	1976	Premise Match	13m	South East
	MOTOR GARAGES & OR ENGINEERS.	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	59468	1975	Premise Match	13m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR SERVICE STATIONS - PETROL, OIL	Riverwood Service Station., 345 Belmore Rd., Riverwood. 2210	61919	1975	Premise Match	13m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Riverwood Service Station., 345 Belmore Rd Riverwood	12959	1972	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., 345 Belmore Rd Riverwood	18115	1972	Premise Match	13m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Riverwood Service Station., 345 Belmore Rd Riverwood	62623	1971	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., 345-349 Belmore Rd Riverwood	2549	1971	Premise Match	13m	South East
	MOTOR GARAGES & ENGINEERS(M6S6)	Riverwood Service Station., 345 Belmore Rd., Riverwood	338515	1970	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Riverwood Service Station., 345-349 Belmore Rd., RIVERWOOD	341434	1970	Premise Match	13m	South East
	MOTOR GARAGES & ENGINEERS.	Riverwood Service Station., 345 Belmore Rd Riverwood	47059	1969	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., 345-349 Belmore Rd Riverwood	50698	1969	Premise Match	13m	South East
	MOTOR GARAGES & ENGINEERS	Riverwood Service Station., 345 Belmore Rd Riverwood	26444	1968	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., 345-349 Belmore Rd Riverwood	36782	1968	Premise Match	13m	South East
	MOTOR GARAGES & ENGINEERS.	Riverwood Service Station., 345 Belmore Rd Riverwood	10932	1967	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., 345-349 Belmore Rd Riverwood	16187	1967	Premise Match	13m	South East
	MOTOR GARAGES & ENGINEERS.	Riverwood Service Station., 345 Belmore Rd., Riverwood	60666	1966	Premise Match	13m	South East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., 345-349 Belmore Rd Riverwood	1752	1966	Premise Match	13m	South East
	Motor Garages & Engineers	Riverwood Service Station, 345 Belmore Rd. Riverwood	123304	1965	Premise Match	13m	South East
	Motor Service Stations - Petrol, Oil, Etc.	Riverwood Service Station, 345-349 Belmore Rd. Riverwood	126100	1965	Premise Match	13m	South East
2	MOTOR SERVICE STATIONS-PETROL, ETC.	Herne Bay Service Station., Killara Ave. & Belmore Rd., Herne Bay	35865	1952	Road Intersection	35m	South East
	MOTOR SERVICE STATIONS-PETROL, Etc.	Herne Bay Service Station, Killara Ave and Belmore Rd., Herne Bay	86054	1950	Road Intersection	35m	South East
	MOTOR GARAGES &/OR ENGINEERS.	Herne Bay Service Station., Killara Ave and Belmore Rd, Herne Bay	22441	1948-49	Road Intersection	35m	South East
	MOTOR SERVICE STATIONS-PETROL, ETC.	Herne Bay Service Station., Killara Ave and Belmore Rd., Herne Bay	23321	1948-49	Road Intersection	35m	South East
3	DRY CLEANERS, PRESSERS/ DYERS	Delmar Dry Cleaners., 339-341 Belmore Rd Riverwood	6093	1967	Premise Match	48m	South East
	DRY CLEANERS, PRESSERS/ DYERS	Delmar Dry Cleaners., 339-341 Belmore Rd., Riverwood	52625	1966	Premise Match	48m	South East
	Dry Cleaners, Pressers/Dyers	Delmar Dry Cleaners, 339-341 Belmore Rd., Riverwood	76137	1965	Premise Match	48m	South East
4	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 276 Belmore Rd., Riverwood. 2210	53166	1988	Premise Match	67m	South East
	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 276 Belmore Rd., Riverwood. 2210	25383	1986	Premise Match	67m	South East
5	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	53160	1988	Premise Match	73m	South East
	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	25380	1986	Premise Match	73m	South East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	34615	1985	Premise Match	73m	South East
	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	22048	1984	Premise Match	73m	South East
	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners., 274 Belmore Rd., Riverwood 2210	8657	1983	Premise Match	73m	South East
	DRY CLEANERS & PRESSERS.(D8500)	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210.	23928	1982	Premise Match	73m	South East
	DRY CLEANERS & PRESSERS.	Lawrence Dry Cleaners., 274 Belmore Rd., Riverwood. 2210	63399	1981	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Lawrence Dry Cleaners., 274 Belmore Rd., Riverwood. 2210	46829	1980	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Lawrence Dry Cleaners., 274 Belmore Rd., Riverwood. 2210.	35417	1979	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS	Lawrence Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	20835	1978	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Spotless Dry Cleaners., 274 Belmore Rd., Riverwood 2210	23822	1976	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Spotless Dry Cleaners, 274 Belmore Rd., Riverwood. 2210	24346	1975	Premise Match	73m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Spotless Dry Cleaners., 274 Belmore Rd., Riverwood 2210	7264	1972	Premise Match	73m	South East
6	DRY CLEANERS & PRESSERS.	Shorts 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood. 2210	53283	1988	Premise Match	329m	South East
	DRY CLEANERS & PRESSERS.	Shorts 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood. 2210	25512	1986	Premise Match	329m	South East
	DRY CLEANERS & PRESSERS.	Shorts., 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood. 2210	38791	1985	Premise Match	329m	South East
	DRY CLEANERS & PRESSERS.	Shorts 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood. 2210	22181	1984	Premise Match	329m	South East
	DRY CLEANERS & PRESSERS.	Shorts 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood 2210	8775	1983	Premise Match	329m	South East
	DRY CLEANERS & PRESSERS.(D8500)	Shorts 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood. 2210.	24044	1982	Premise Match	329m	South East
	DRY CLEANERS & PRESSERS.	Shorts 59 Minute Dry Cleaners., 222 Belmore Rd., Riverwood. 2210	63534	1981	Premise Match	329m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Shorts 59 Minute Dry Cleaners., 222 Belmore Rd., Riverwood. 2210	50015	1980	Premise Match	329m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Shorts., 59 Minute Dry Cleaners., 222 Belmore Rd., Riverwood. 2210.	35554	1979	Premise Match	329m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS	Shorts 59 Minute Dry Cleaners, 222 Belmore Rd., Riverwood. 2210	20952	1978	Premise Match	329m	South East
7	MOTOR GARAGE & SERVICE STATIONS.	Ampol Riverwood Service Station, 100 Belmore Rd., Riverwood. 2210	64389	1989	Premise Match	472m	North East
	MOTOR GARAGES & SERVICE STATIONS.	Ampol Riverwood Service Station, 100 Belmore Rd., Riverwood. 2210	53491	1988	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station, 100 Belmore Rd., Riverwood. 2210	34307	1984	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood 2210	21750	1983	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood 2210	21749	1983	Premise Match	472m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
7	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Total Riverwood Service Station, 100 Belmore Rd., Riverwood. 2210.	57748	1982	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood 2210	8334	1981	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood. 2210	59022	1980	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood. 2210.	46494	1979	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station, 100 Belmore Rd., Riverwood. 2210	50972	1978	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood 2210	35056	1976	Premise Match	472m	North East
	MOTOR GARAGES &/OR ENGINEERS.	Total Riverwood Service Station., 100 Belmore Rd., Riverwood.	59664	1975	Premise Match	472m	North East
	MOTOR SERVICE STATIONS - PETROL, OIL	Total Riverwood Service Station., 100 Belmore Rd., Riverwood. 2210	61993	1975	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	18118	1972	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	2552	1971	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Total Riverwood Service Station., 100 Belmore Rd., RIVERWOOD	341552	1970	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	50699	1969	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	36783	1968	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	16188	1967	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	1754	1966	Premise Match	472m	North East
	Motor Service Stations - Petrol, Oil, Etc.	Total Riverwood Service Stateen, 100 Belmore Rd. Riverwood	126102	1965	Premise Match	472m	North East
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Total Riverwood Service Station., 100 Belmore Rd Riverwood	52359	1964	Premise Match	472m	North East
8	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Golden Fleece Riverwood Service Station, 184 Belmore Rd., Riverwood. 2210.	56866	1982	Premise Match	499m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Riverwood Service Station., 184 Belmore Rd., Riverwood 2210	3427	1981	Premise Match	499m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Riverwood Service Station., 184 Belmore Rd., Riverwood. 2210	58159	1980	Premise Match	499m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Riverwood., 184 Belmore Rd., Riverwood. 2210.	41571	1979	Premise Match	499m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
8	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Riverwood, 184 Belmore Rd., Riverwood. 2210	50109	1978	Premise Match	499m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Golden Fleece Riverwood., 184 Belmore Rd., Riverwood 2210	30098	1976	Premise Match	499m	South
	MOTOR GARAGES &/OR ENGINEERS.	Golden Fleece Riverwood., 184 Belmore Rd., Riverwood. 2210	58933	1975	Premise Match	499m	South
	MOTOR GARAGES &/OR ENGINEERS.	Melody Service Station Pty. Ltd., 184 Belmore Rd., Riverwood 2210	12958	1972	Premise Match	499m	South

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

## Dry Cleaners, Motor Garages & Service Stations 1948-1993

### Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
9	DRY CLEANERS, PRESSERS/DYERS.	Elite Dry Cleaners., 102A Housing Estate Off Belmore Rd Riverwood	24750	1962	Road Match	0m
	DRY CLEANERS, PRESSERS / DYERS	Elite Dry Cleaners, 102a Housing Estate, off Belmore Rd., Riverwood	299101	1961	Road Match	0m
	DRY CLEANERS, PRESSERS/DYERS	Elite Dry Cleaners., 102A Housing Estate Off Belmore Rd Riverwood	10041	1959	Road Match	0m
	DRY CLEANERS, PRESSERS & DYERS.	Coupes., 102 Housing Estate, Off Belmore Rd., Herne Bay	54808	1956	Road Match	0m
	DRY CLEANERS, PRESSERS & DYERS.	Browning, G., Housing Estate, Belmore Rd., Herne Bay	44317	1954	Road Match	0m
	DRY CLEANERS, PRESSERS & DYERS.	Browning, G., Housing Estate, Belmore Rd., Herne Bay	36125	1953	Road Match	0m
	DRY CLEANERS, PRESSERS & DYERS.	Browning G. Housing Estate, Belmore Rd., Hearne Bay	26990	1952	Road Match	0m
	DRY CLEANERS, PRESSERS & DYERS	Browning, G., Housing Estate, Belmore Rd., Herne Bay	35142	1950	Road Match	0m
10	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	18114	1972	Road Match	13m
	MOTOR GARAGES &/OR ENGINEERS.	Melody Service Station Pty. Ltd., Belmore Rd Riverwood	62622	1971	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	2548	1971	Road Match	13m
	MOTOR GARAGES & ENGINEERS(M6S6)	Melody Service Station Pty. Ltd., Belmore Rd., Riverwood	338244	1970	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Riverwood Driveway., Belmore Rd., RIVERWOOD	341433	1970	Road Match	13m
	MOTOR GARAGES & ENGINEERS.	Melody Service Station Pty. Ltd., Belmore Rd Riverwood	47058	1969	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	50697	1969	Road Match	13m
	MOTOR GARAGES & ENGINEERS	Melody Service Station Pty. Ltd., Belmore Rd Riverwood	26443	1968	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	36781	1968	Road Match	13m
	MOTOR GARAGES & ENGINEERS.	Melody Service Station Pty. Ltd., Belmore Rd Riverwood	10931	1967	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	16186	1967	Road Match	13m
	MOTOR GARAGES & ENGINEERS.	Melody Service Station Pty. Ltd., Belmore Rd Riverwood	60665	1966	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	1751	1966	Road Match	13m
	Motor Garages & Engineers	Melody Service Station Pty. Ltd., Belmore Rd. Riverwood	123303	1965	Road Match	13m
	Motor Service Stations - Petrol, Oil, Etc.	Riverwood Driveway, Belmore Rd. Riverwood	126099	1965	Road Match	13m
	MOTOR GARAGES & ENGINEERS	Melody Service Station Pty. Ltd., Belmore Rd Riverwood	48582	1964	Road Match	13m

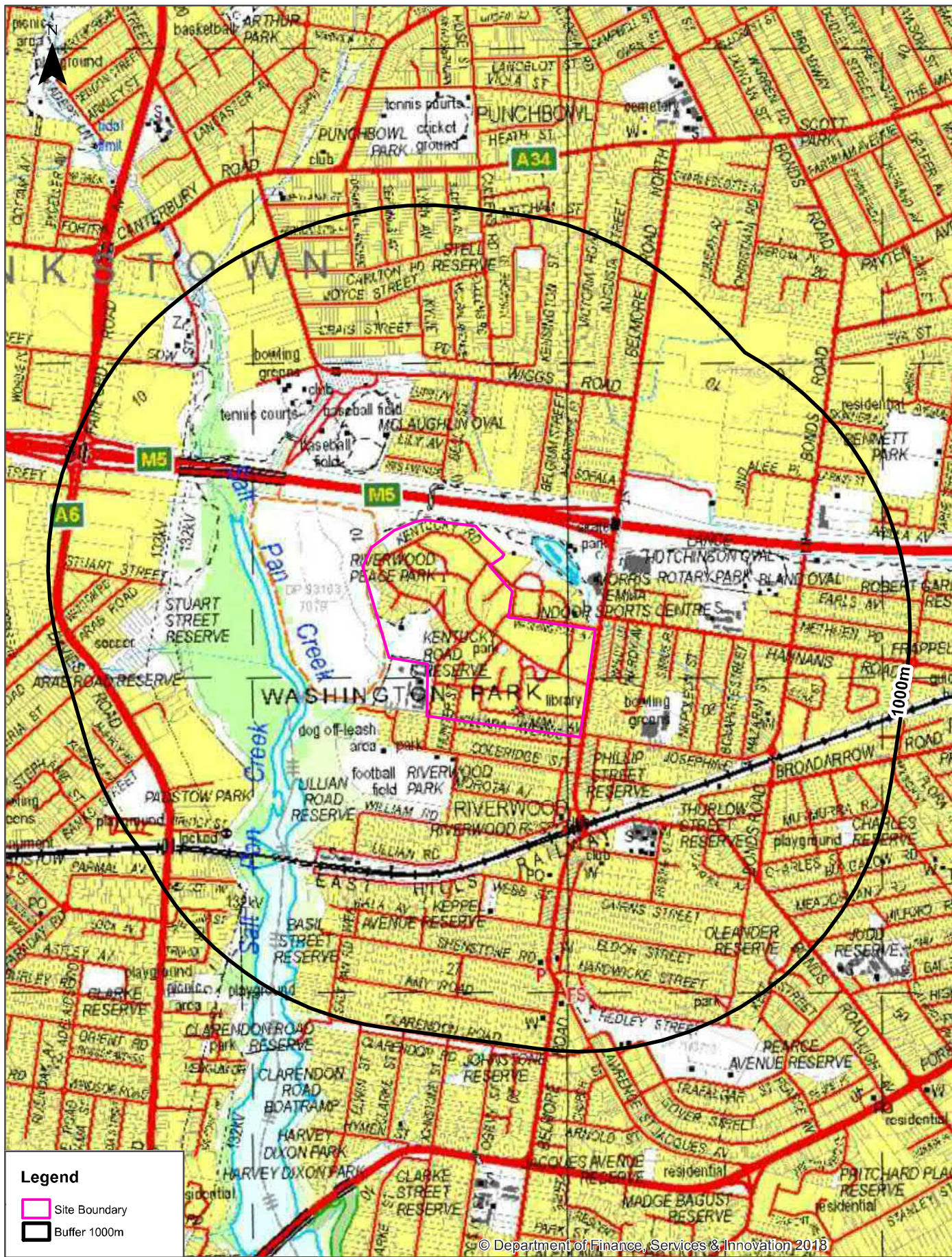
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
10	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Driveway., Belmore Rd Riverwood	52356	1964	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., Belmore Rd Riverwood	52357	1964	Road Match	13m
	MOTOR GARAGES & ENGINEERS	Riverwood Service Station., Belmore Rd., Riverwood	48583	1964	Road Match	13m
	MOTOR GARAGES & ENGINEERS.	Riverwood Service Station., Belmore Rd Riverwood	33335	1962	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Riverwood Service Station., Belmore Rd Riverwood	38627	1962	Road Match	13m
	MOTOR GARAGES & ENGINEERS	Riverwood Service Station, Belmore Rd. RIVERWOOD	348030	1961	Road Match	13m
	MOTOR SERVICE STATIONS—PETROL, OIL, Etc.	Riverwood Service Station, Belmore Rd. RIVERWOOD	351028	1961	Road Match	13m
	MOTOR GARAGES & ENGINEERS.	Riverwood Service Station., Belmore Rd Riverwood	19893	1959	Road Match	13m
	MOTOR SERVICE STATIONS-PETROL,. OIL, ETC.	Riverwood Service Station., Belmore Rd Riverwood	24516	1959	Road Match	13m
	MOTOR GARAGE/ENGINEERS.	Herne Bay Service Station (The)., Belmore Rd., Herne Bay	4266	1958	Road Match	13m
	MOTOR GARAGE/ENGINEERS.	Melody Service Station., Belmore Rd., Herne Bay	4575	1958	Road Match	13m
	MOTOR GARAGES &/OR ENGINEERS.	Herne Bay Service Station (The)., Belmore Rd., Herne Bay	57791	1956	Road Match	13m
	MOTOR GARAGES &/OR ENGINEERS.	Melody Service Station, Belmore Rd., Herne Bay	61127	1956	Road Match	13m
	MOTOR GARAGES &/OR ENGINEERS.	Herne Bay Service Station (The), Belmore Rd., Herne Bay	49394	1954	Road Match	13m
	MOTOR GARAGES &/OR ENGINEERS.	Melody Service Station, Belmore Rd., Herne Bay	49686	1954	Road Match	13m
11	MOTOR GARAGES & ENGINEERS.	Price E. A., William Rd Riverwood	33334	1962	Road Match	272m
	MOTOR GARAGES & ENGINEERS	Price, E. A., William Rd. RIVERWOOD	347943	1961	Road Match	272m
	MOTOR GARAGES & ENGINEERS.	Price E. A., William Rd Riverwood	19891	1959	Road Match	272m
	MOTOR GARAGE/ENGINEERS.	Price, E. A., William Rd., Herne Bay	4782	1958	Road Match	272m
	MOTOR GARAGES &/OR ENGINEERS.	Price, E. A., William Rd., Herne Bay	61313	1956	Road Match	272m
	MOTOR GARAGES &/OR ENGINEERS.	Price, E. A., William Rd., Herne Bay	49874	1954	Road Match	272m
12	DRY CLEANERS, PRESSERS & DYERS.	Mills A. H., Broadarrow Rd.Narwee	17365	1948-49	Road Match	420m
13	MOTOR GARAGES & SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	25426	1993	Road Match	471m
	Motor Garages & Service Stations	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl 2196	53868	1991	Road Match	471m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	12120	1990	Road Match	471m
	MOTOR GARAGE & SERVICE STATIONS.	London & Hobman Pty. Ltd., Cullens Rd., Punchbowl. 2196	5186	1989	Road Match	471m
	MOTOR GARAGE & SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	5545	1989	Road Match	471m
	MOTOR GARAGES & SERVICE STATIONS.	London & Hobman Pty. Ltd., Cullens Rd., Punchbowl. 2196	59537	1988	Road Match	471m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	59934	1988	Road Match	471m
	MOTOR GARAGES & SERVICE STATIONS.	London & Hobman Pty Ltd., Cullens Rd., Punchbowl. 2196	64996	1986	Road Match	471m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	65436	1986	Road Match	471m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
13	MOTOR GARAGES & SERVICE STATIONS.	London & Hobman Pty. Ltd., Cullens Rd., Punchbowl. 2196	45099	1985	Road Match	471m
	MOTOR GARAGES & SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	45550	1985	Road Match	471m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	London & Hobman Pty Ltd., Cullens Rd., Punchbowl. 2196	28598	1984	Road Match	471m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196	34114	1984	Road Match	471m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Shell Punchbowl Self Serve., Cullens Rd., Punchbowl 2196	21567	1983	Road Match	471m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	London & Hobman Pty. Ltd., Cullens Rd., Punchbowl. 2196.	57102	1982	Road Match	471m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Shell Punchbowl Self Serve, Cullens Rd., Punchbowl. 2196.	57558	1982	Road Match	471m

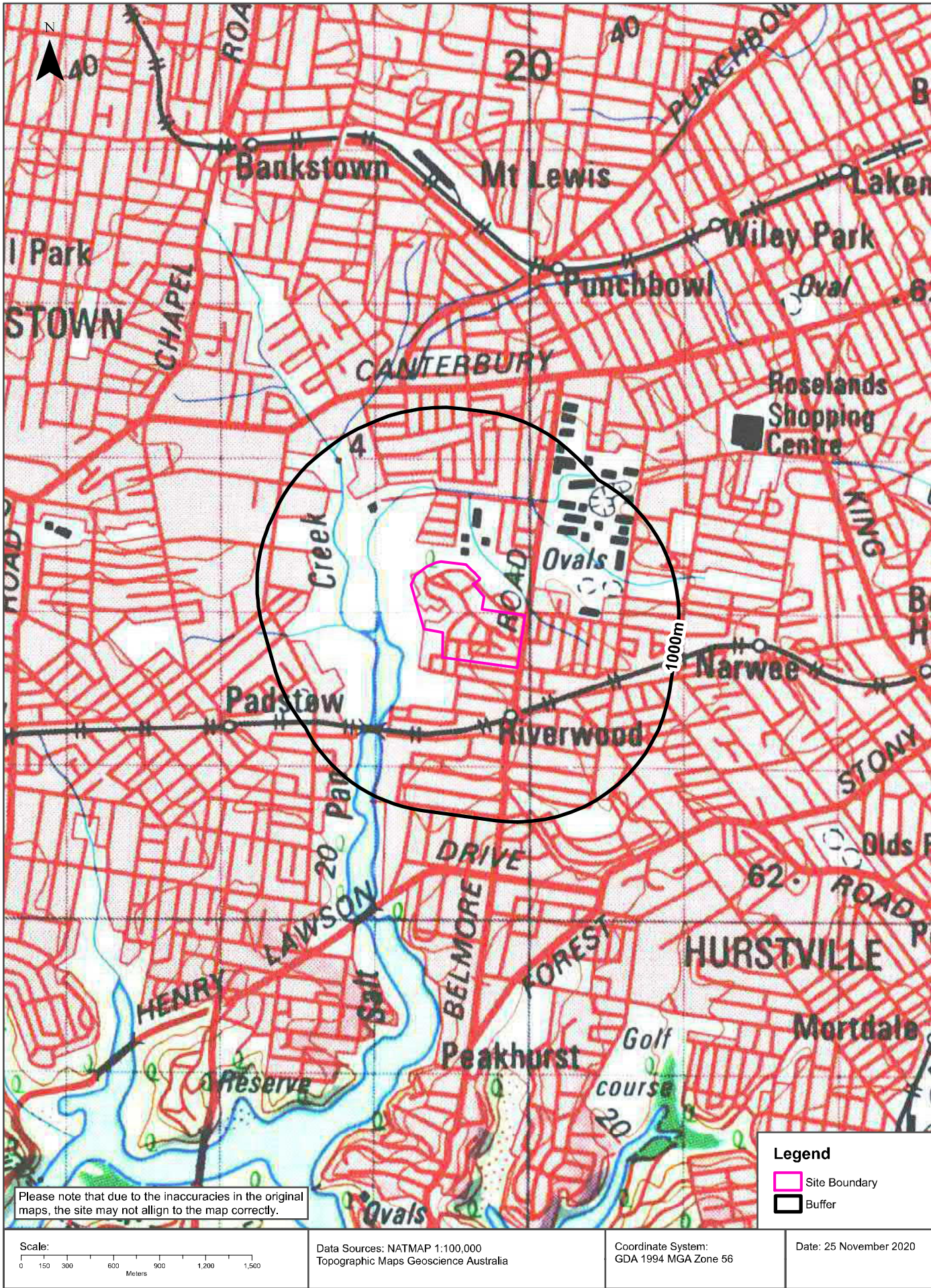
Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Topographic Map 2015

Riverwood Estate, Riverwood, NSW 2210

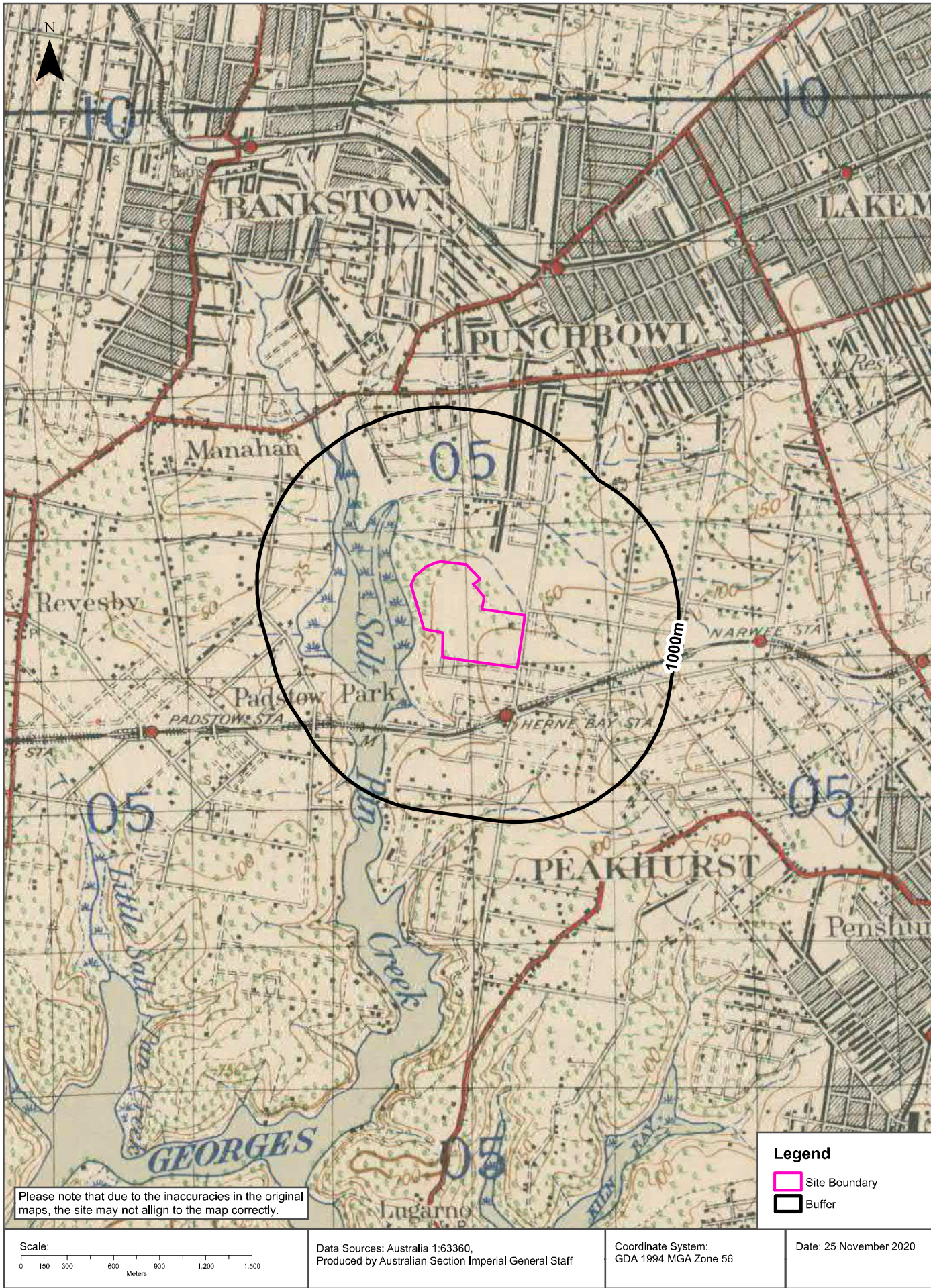


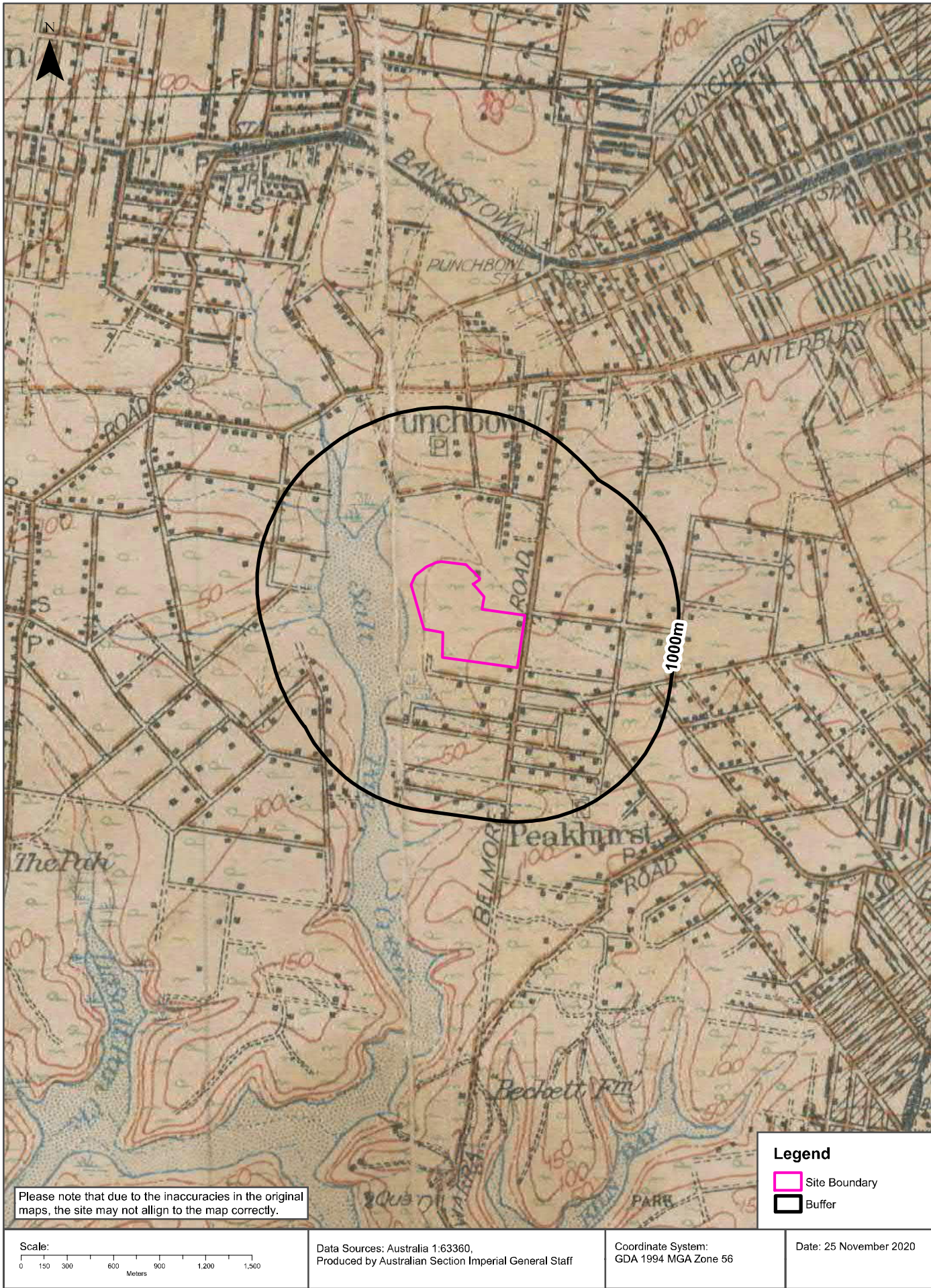
Scale: 0 100 200 400 600 Meters	Data Sources: Topographic Map Data © NSW Land and Property Information	Coordinate System: GDA 1994 MGA Zone 56	Date: 25 November 2020
---------------------------------------	---	--	------------------------



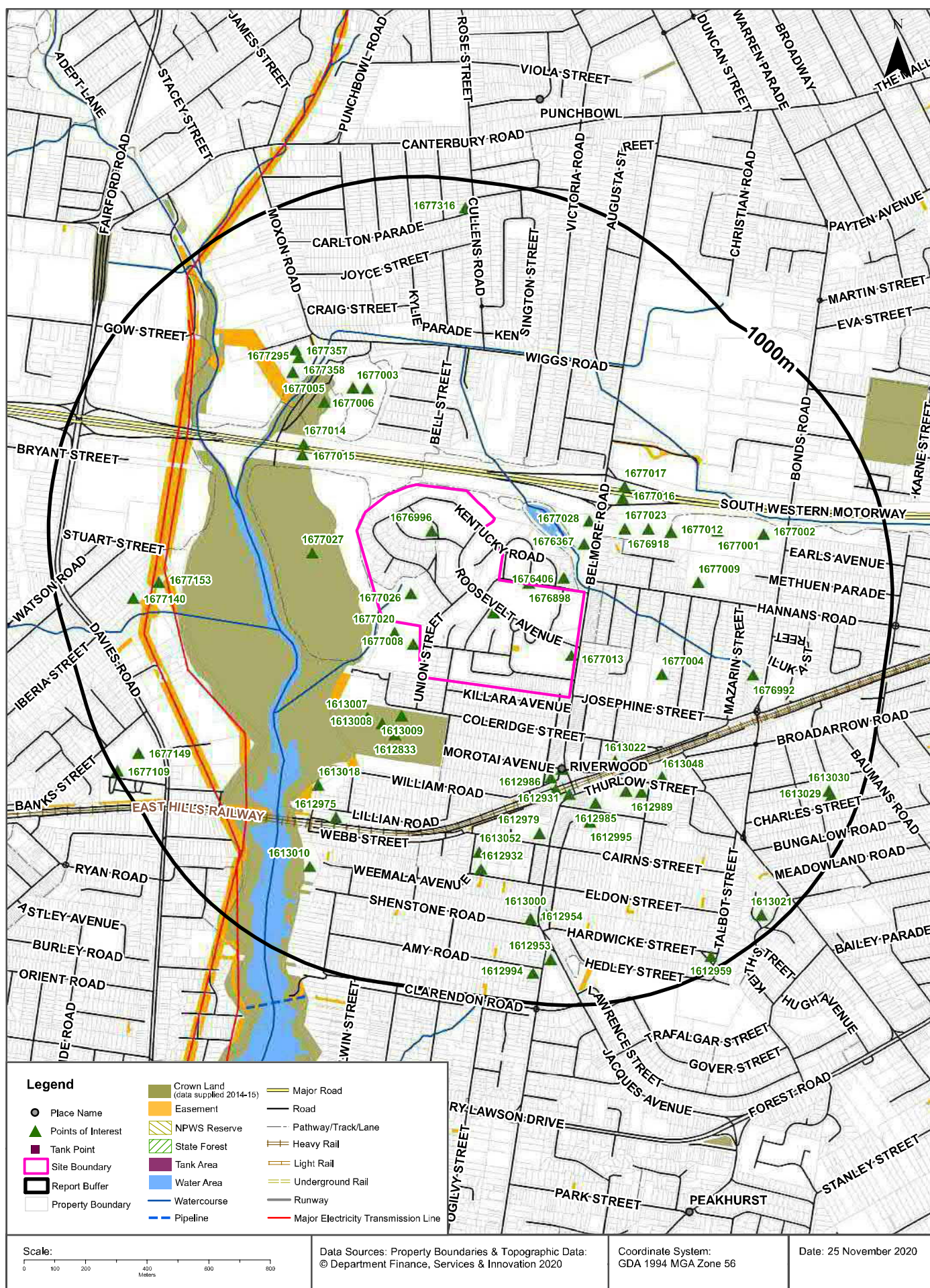
Historical Map c.1936

Riverwood Estate, Riverwood, NSW 2210





**Riverwood Estate, Riverwood, NSW 2210**



# Topographic Features

Riverwood Estate, Riverwood, NSW 2210

## Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
1676994	Park	Park	0m	Onsite
1676996	Park	RIVERWOOD PEACE PARK	0m	Onsite
1677013	Library	RIVERWOOD LIBRARY	0m	Onsite
1677026	Park	KENTUCKY ROAD RESERVE	0m	Onsite
1676898	Urban Place	WASHINGTON PARK	3m	East
1677008	Primary School	RIVERWOOD PUBLIC SCHOOL	20m	South West
1676406	Community Facility	RIVERWOOD SENIOR CITIZEN'S CENTRE	35m	East
1677020	Preschool	RIVERWOOD PUBLIC SCHOOL PRESCHOOL	35m	South West
1613009	Park	Park	140m	South West
1676367	Community Facility	RIVERWOOD COMMUNITY CENTRE	154m	North East
1677027	Park	SALT PAN CREEK WETLANDS	158m	West
1613008	Sports Field	FOOTBALL FIELD	195m	South West
1612833	Park	RIVERWOOD PARK	205m	South West
1613007	Park	DOG OFF-LEASH AREA	215m	South West
1677028	Sports Court	SKATE PARK	230m	North East
1612969	Suburb	RIVERWOOD	236m	South East
1677023	Sports Centre	MORRIS IEMMA INDOOR SPORTS CENTRE	244m	North East
1613022	Park	PHILLIP STREET RESERVE	256m	South East
1612986	Club	RIVERWOOD SPORTS AND REC CLUB	268m	South East
1677015	Roadside Emergency Telephone	6	274m	North West
1677004	Sports Field	BOWLING GREENS	288m	East
1676918	Parking Area	Parking Area	291m	East
1677014	Roadside Emergency Telephone	5	297m	North West
1612988	Railway Station	RIVERWOOD RAILWAY STATION	304m	South East
1612931	Bus Interchange	RIVERWOOD BUS INTERCHANGE	316m	South East
1677016	Roadside Emergency Telephone	4	328m	North East
1677012	Park	ROTARY PARK	342m	East
1677003	Sports Field	MCLAUGHLIN OVAL	343m	North West
1612985	Club	CLUB RIVERS RIVERWOOD LEGION AND COMMUNITY CLUB	356m	South East
1612990	Primary School	ST JOSEPH'S CATHOLIC PRIMARY SCHOOL	357m	South East
1677006	Sports Field	BASEBALL FIELD	363m	North West

Map Id	Feature Type	Label	Distance	Direction
1677005	Sports Field	BASEBALL FIELD	364m	North West
1677017	Roadside Emergency Telephone	3	365m	North East
1677009	Primary School	HANNANS ROAD PUBLIC SCHOOL	371m	East
1612989	Place Of Worship	CATHOLIC CHURCH	388m	South East
1613048	Park	THURLOW STREET RESERVE	398m	South East
1612995	Place Of Worship	ST ANDREWS CHURCH	412m	South East
1612979	Post Office	RIVERWOOD POST OFFICE	451m	South
1677001	Sports Field	LANCE HUTCHINSON OVAL	476m	East
1613018	Park	LILLIAN ROAD RESERVE	482m	South West
1677358	Sports Court	TENNIS COURTS	502m	North West
1677295	Club	CANTERBURY BANKSTOWN TENNIS AND BOWLS CLUB	528m	North West
1612975	Primary School	SOUTHSIDE MONTESSORI SCHOOL	532m	South West
1613052	Park	KEPPEL AVENUE RESERVE	538m	South
1677357	Sports Field	BOWLING GREENS	556m	North West
1676992	Place Of Worship	CHRISTADELPHIAN CHURCH	581m	East
1612932	Community Medical Centre	RIVERWOOD EARLY CHILDHOOD HEALTH CENTRE	593m	South
1677002	Sports Field	BLAND OVAL	611m	East
1677153	Sports Field	STUART STREET RESERVE	663m	West
1613000	Place Of Worship	RIVERWOOD PRESBYTERIAN CHURCH	711m	South
1613010	Park	BASIL STREET RESERVE	712m	South West
1612954	Police Station	RIVERWOOD POLICE STATION	730m	South
1677140	Sports Field	SOCCER	757m	West
1612953	Fire Station	RIVERWOOD FIRE STATION	853m	South
1613030	Park	PLAYGROUND	897m	South East
1677149	Sports Field	PADSTOW PARK	902m	South West
1612994	Place Of Worship	HURSTVILLE/RIVERWOOD CHINESE BAPTIST CHURCH	905m	South
1677316	Park	STELL RESERVE	909m	North
1613029	Park	CHARLES RESERVE	910m	South East
1613021	Park	OLEANDER RESERVE	944m	South East
1612959	Park	Park	958m	South East
1677109	Picnic Area	PLAYGROUND	991m	South West

Topographic Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Topographic Features

Riverwood Estate, Riverwood, NSW 2210

### Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
	No records in buffer					

### Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
	No records in buffer					

Tanks Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Major Easements

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120114125	Primary	Undefined		0m	Onsite
120109968	Primary	Undefined		170m	East
120111556	Primary	Undefined		211m	South West
120119338	Primary	Undefined		333m	South West
159675066	Primary	Easement for Access		356m	East
120108313	Primary	Undefined	Variable	356m	East
168781845	Primary	Electricity	6m	413m	North West
120107678	Primary	Undefined		437m	North West
155981915	Primary	Right of way	Variable	461m	North East
120118632	Primary	Undefined		496m	South West
152395583	Primary	Right of way	variable width	518m	North West
120106902	Primary	Undefined		527m	South West
120112206	Primary	Undefined		572m	South West

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120107685	Primary	Undefined		575m	South West
120119345	Primary	Undefined		575m	South West
120115458	Primary	Undefined		579m	West
120111570	Primary	Undefined		590m	North West
120119344	Primary	Undefined		602m	West
120110766	Primary	Undefined		609m	West
120111571	Primary	Undefined		618m	West
120111524	Primary	Undefined		620m	North West
120114181	Primary	Undefined		624m	South
120117908	Primary	Undefined		626m	South
120107684	Primary	Undefined		627m	West
120115459	Primary	Undefined		633m	West
120118694	Primary	Undefined		636m	West
120111523	Primary	Undefined		636m	West
120122081	Primary	Undefined		642m	South West
120107653	Primary	Undefined		646m	North West
168781844	Primary	Electricity	30m	655m	North West
120111515	Primary	Undefined		666m	West
120110869	Primary	Undefined		679m	West
120117853	Primary	Undefined		679m	South East
120119290	Primary	Undefined		684m	West
120110008	Primary	Undefined		694m	South East
120107638	Primary	Undefined		710m	South West
120106904	Primary	Undefined		710m	West
120119289	Primary	Undefined		716m	West
120115412	Primary	Undefined		720m	South West
120111516	Primary	Undefined		726m	West
120107666	Primary	Undefined		731m	North West
120106982	Primary	Undefined		737m	South West
120117954	Primary	Undefined		737m	South
120111514	Primary	Undefined		746m	North West
120118553	Primary	Undefined		747m	West
120113724	Primary	Undefined		749m	South
120115403	Primary	Undefined		753m	West
120119314	Primary	Undefined		763m	South West
120118172	Primary	Undefined		785m	South East
120106971	Primary	Undefined		792m	North West

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
174792075	Primary	Right of way	7.5m & var	799m	West
120114757	Primary	Undefined		813m	North West
120119294	Primary	Undefined		831m	South West
120117743	Primary	Undefined		842m	South
120118191	Primary	Undefined		851m	South East
120114463	Primary	Undefined		875m	South
120114767	Primary	Undefined		884m	North West
120115428	Primary	Undefined		894m	North West
120107632	Primary	Undefined		898m	South West
120115422	Primary	Undefined		949m	South West
120107752	Primary	Undefined		958m	North West
120118716	Primary	Undefined		961m	North West
179456290	Primary	Right of way	3.66M & VAR	964m	South

Easements Data Source: © Land and Property Information (2015)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Topographic Features

Riverwood Estate, Riverwood, NSW 2210

### State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

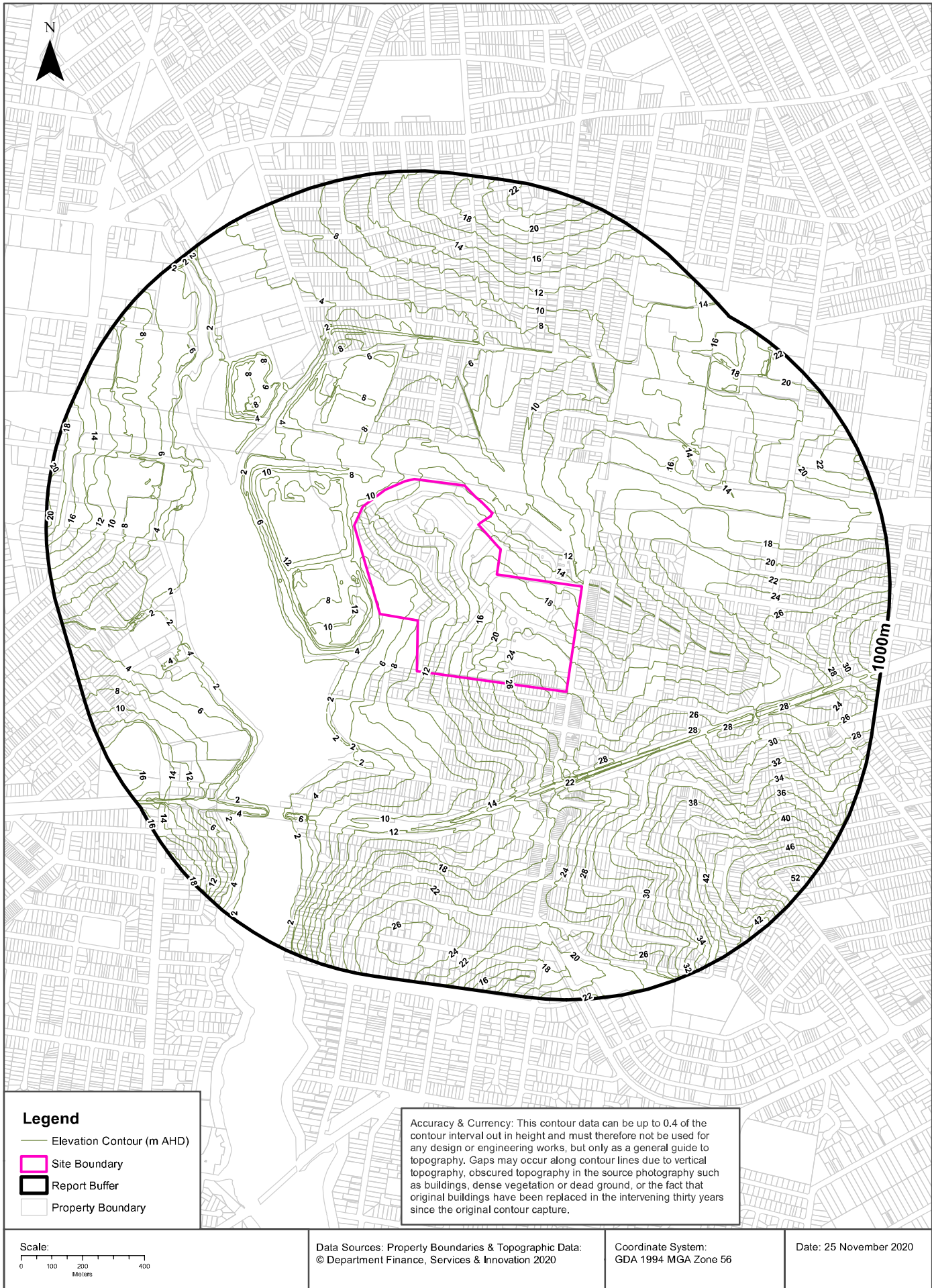
### National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Elevation Contours (m AHD)  
Riverwood Estate, Riverwood, NSW 2210



## Hydrogeology & Groundwater

Riverwood Estate, Riverwood, NSW 2210

### Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive aquifers of low to moderate productivity

Description of aquifers within the dataset buffer:

Description
Porous, extensive aquifers of low to moderate productivity

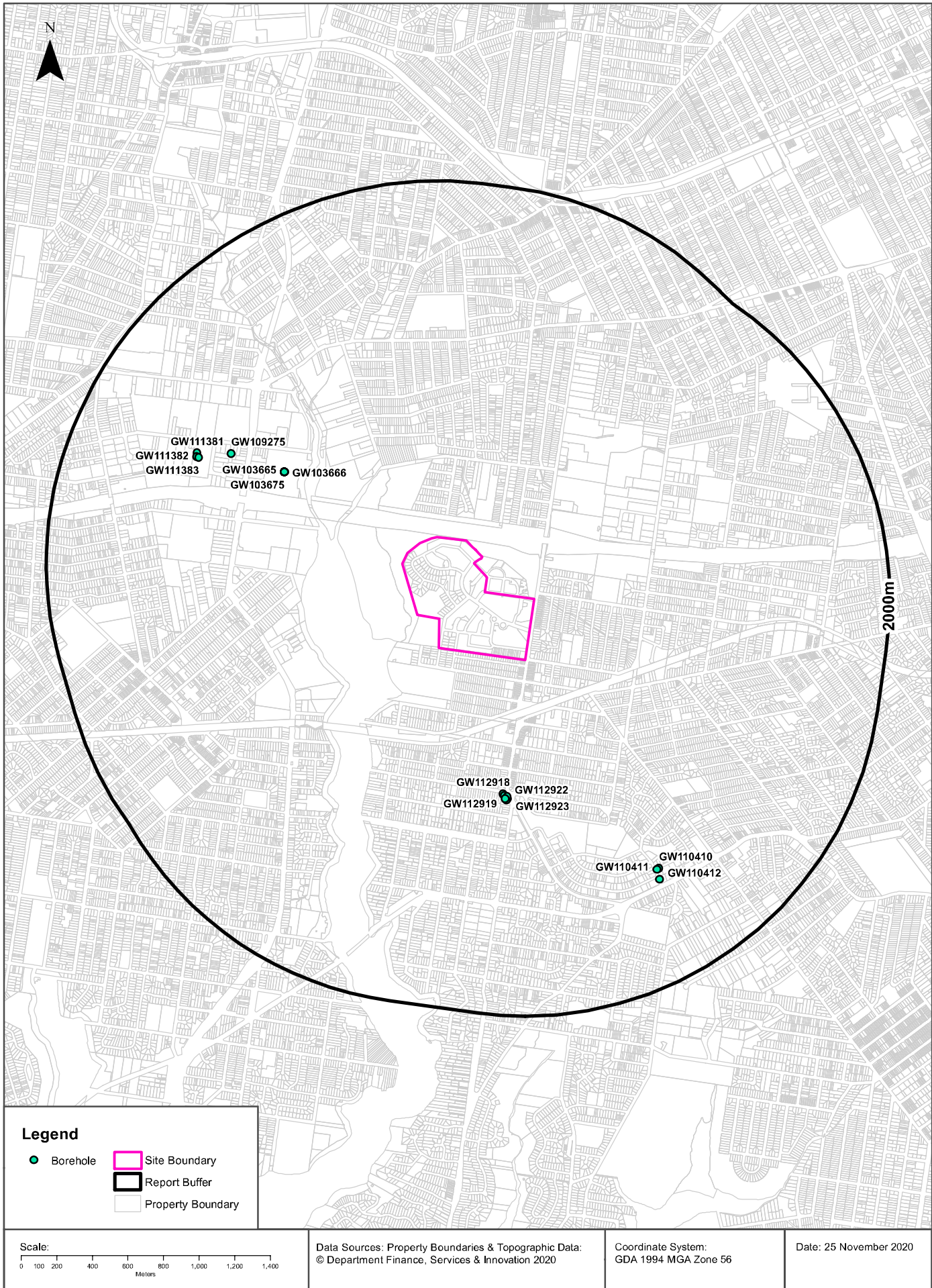
Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

### Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries



# Hydrogeology & Groundwater

Riverwood Estate, Riverwood, NSW 2210

## Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW112 918	10BL604 602	Bore	Private	Monitoring Bore	Monitoring Bore	BP Australia	14/04/2011	4.00	4.00		0.80			763m	South
GW112 919	10BL604 602	Bore	Private	Monitoring Bore	Monitoring Bore	BP Australia	14/04/2011	4.00	4.00		0.80			772m	South
GW112 922	10BL604 602	Bore	Private	Monitoring Bore	Monitoring Bore	BP Australia	13/04/2011	4.00	4.00		0.80			774m	South
GW112 923	10BL604 602	Bore	Private	Monitoring Bore	Monitoring Bore	BP Australia	14/04/2011	4.00	4.00		0.80			785m	South
GW112 920	10BL604 602	Bore	Private	Monitoring Bore	Monitoring Bore	BP Australia	14/04/2011	4.00	4.00					788m	South
GW112 921	10BL604 602	Bore	Private	Monitoring Bore	Monitoring Bore	BP Australia	13/04/2011	4.00	4.00					793m	South
GW103 667	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		01/11/2000	4.50	4.50					825m	North West
GW103 677	10BL160 057	Bore	Private	Monitoring Bore	Monitoring Bore		27/11/2000	4.50	4.50					825m	North West
GW103 661	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		03/11/2000	4.30	4.30					825m	North West
GW103 671	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		31/10/2000	5.10	5.10					825m	North West
GW103 684	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		02/11/2000	6.00	6.00					825m	North West
GW103 659	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		03/01/2000	1.00	1.00					825m	North West
GW103 670	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		06/11/2000	0.50	0.50					825m	North West
GW103 662	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		03/11/2000	4.40	4.40					825m	North West
GW103 664	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		02/11/2000	4.70	4.70					825m	North West
GW103 669	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		06/11/2000	4.80	4.80					825m	North West
GW103 672	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		30/10/2000	4.50	4.50					825m	North West
GW103 679	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		01/11/2000	5.00	5.50					825m	North West
GW103 663	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		03/11/2000	4.80	4.80					825m	North West
GW103 683	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		08/11/2000	7.00	7.00					825m	North West
GW103 674	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		13/11/2000	5.90	5.90					825m	North West
GW103 681	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		06/11/2000	4.00	4.70					825m	North West
GW103 682	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		01/11/2000	6.00	6.00					825m	North West
GW103 689	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		27/11/2000	3.50	3.50					825m	North West
GW103 657	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		06/11/2000	3.30	3.30					825m	North West
GW103 673	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		30/10/2000	4.30	4.30					825m	North West
GW103 658	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		03/11/2000	2.00	2.00					825m	North West

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW103 668	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		27/11/2000	3.90	3.90					825m	North West
GW103 665	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		02/11/2000	4.70	4.70					825m	North West
GW103 675	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		13/11/2000	5.60	5.60					825m	North West
GW103 685	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		02/11/2000	5.00	6.00					825m	North West
GW103 676	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		13/11/2000	5.60	5.60					825m	North West
GW103 687	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		02/11/2000	4.40	4.40					825m	North West
GW103 666	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		01/11/2000	4.50	4.50					825m	North West
GW103 680	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		01/11/2000	5.00	5.50					825m	North West
GW103 678	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		31/10/2000	4.30	6.00					825m	North West
GW103 690	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		06/11/2000	3.40	3.40					825m	North West
GW103 660	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		03/11/2000	4.70	4.70					825m	North West
GW103 688	10BL160 057	Bore		Monitoring Bore	Monitoring Bore		27/11/2000	3.60	3.60					825m	North West
GW109 275	10BL164 763, 10BL602 504, 10WA10 9531	Spear	Private	Industrial, Monitoring Bore	Industrial		27/08/2008	7.00	7.00		6.00	1.000		1135m	North West
GW111 383	10BL604 471	Bore	Private	Monitoring Bore	Monitoring Bore		27/01/2011	6.10	6.10	19520	2.45			1286m	North West
GW111 382	10BL604 471	Bore	Private	Monitoring Bore	Monitoring Bore		27/01/2011	7.00	7.00	1425	4.49			1299m	North West
GW111 381	10BL604 471	Bore	Private	Monitoring Bore	Monitoring Bore		27/01/2011	4.50	4.50	1172	1.40			1306m	North West
GW110 410	10BL602 863	Well	Local Govt	Monitoring Bore	Monitoring Bore		03/02/2009	7.00	7.00	5441				1391m	South East
GW110 411	10BL602 863	Well	Local Govt	Monitoring Bore	Monitoring Bore		03/02/2009	6.50	6.50	5564	1.68			1391m	South East
GW110 412	10BL602 863	Well	Private	Monitoring Bore	Monitoring Bore		03/02/2009	8.80	8.80	8106	3.30			1447m	South East

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Hydrogeology & Groundwater

Riverwood Estate, Riverwood, NSW 2210

## Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

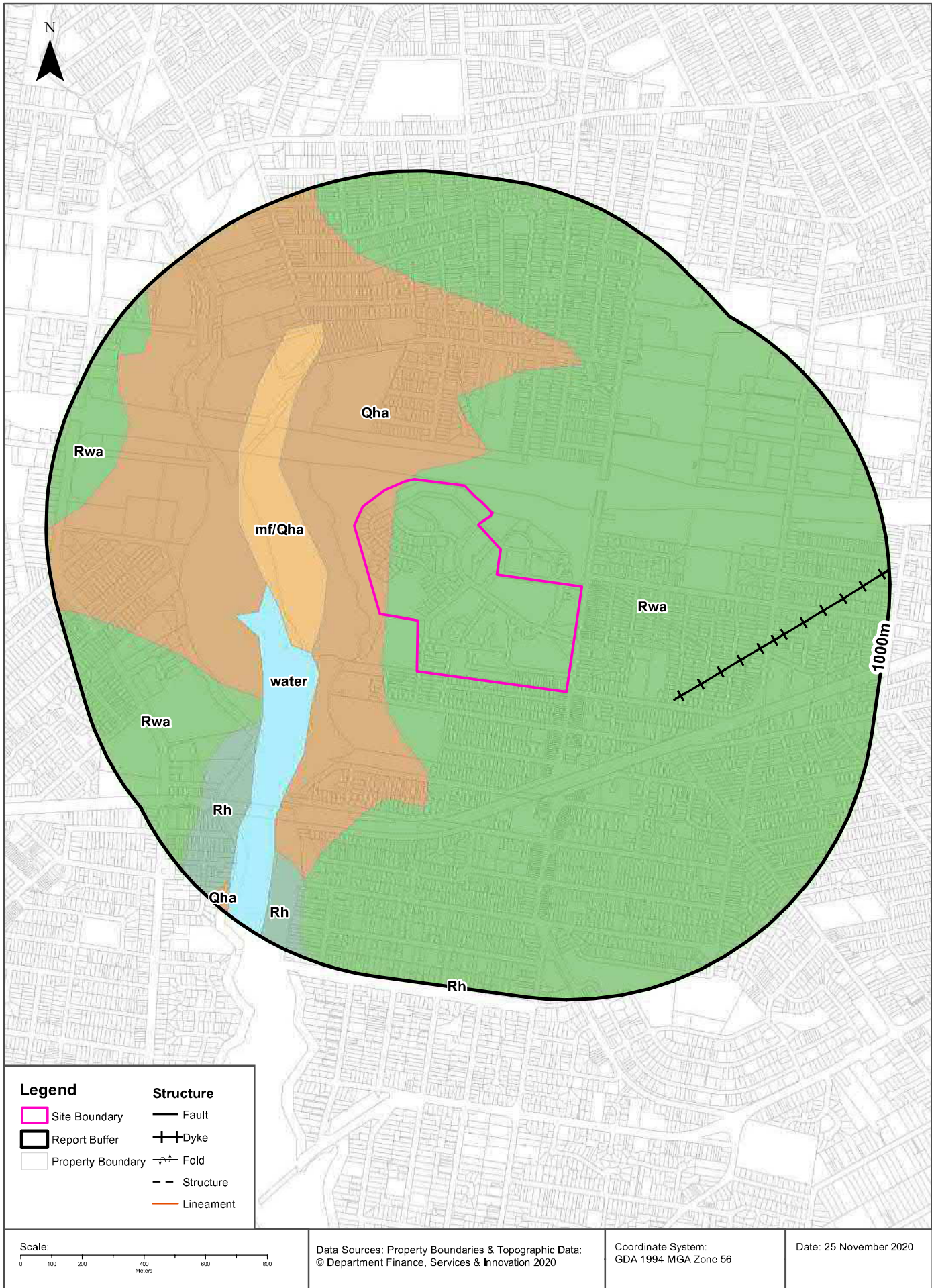
Groundwater No	Drillers Log	Distance	Direction
GW103657	0.00m-1.00m CONCRETE SURFACE, DRY GREY CLAY 1.00m-2.70m CLAY SILT: DRY, FINE GREY SILT 2.70m-3.30m SHALE: WEATHERED, CLAY	825m	North West
GW103658	0.00m-0.70m FILL/GRAVEL 0.70m-1.50m CLAY: GREY, PLASTIC, FIRM 1.50m-2.00m SHALE: DRY	825m	North West
GW103659	0.00m-1.00m SAND: DAMP WET STENG HCO	825m	North West
GW103660	0.00m-0.70m FILL, BRICKS, SAND, CLAY 0.70m-1.50m CLAY: STILT/PLASTIC, GREY/GRAVEL 1.50m-2.50m CLAY: GREY/GRAVEL 2.50m-3.40m SHALES: DRY, GREY TO BROWN 3.40m-3.50m GRAVEL: MOIST/WET/LOOSE 3.50m-4.70m SHALES: FRIABLE/DRY	825m	North West
GW103661	0.00m-0.10m CONCRETE 0.10m-1.10m CLAYS: FIRM, PLASTIC, GREY 1.10m-1.50m CLAY: GREY, HOMOGENEOUS, PLASTIC 1.50m-1.60m GRAVELS: RED/BROWN, WEATHERED 1.60m-2.40m CLAYS: INTERBEDDED AND SHALE 2.40m-4.30m SHALES: DRY, FRIABLE, LOOSE	825m	North West
GW103662	0.00m-0.70m CLAY: BROWN/GREY, FUNNY COLOUR 0.70m-1.40m CLAY: GREY/RED, FIRM, PLASTIC 1.40m-1.50m GRAVEL(SHALE): COARSE, LOOSE, DRY 1.50m-2.30m CLAY: GREY, HOMOGENEOUS, PLASTIC 2.30m-2.60m SHALE: ORANGE/GREY, DRY, FRIABLE 2.60m-3.00m GRAVELS: ORANGE/GREY, FRIABLE 3.00m-4.40m SHALE: DRY, GREY, FRIABLE	825m	North West
GW103663	0.00m-0.50m FILL CLAYS: BLACK/BROWN, FIRM 0.50m-1.10m CLAYS: GREY/BROWN 1.10m-1.20m GRAVELS (SHALE) WEATHERED, HARD/RED 1.20m-1.50m CLAYS: GREY WITH OCC RED 1.50m-4.80m SHALES: WITH CLAYS, DRY, FIRM, FRIABLE	825m	North West
GW103664	0.00m-1.00m CLAY: STIFF, FIRM LOW PLASTICITY 1.00m-2.00m CLAY: STIFF, RED, GREY 2.00m-4.70m SHALE, RED AND DRY GREY SHALES	825m	North West
GW103665	0.00m-1.00m SILT/CLAYS, GREY/BROWN, FAINT HCO 1.00m-1.80m CLAYS, STIFF, DRY, GREY 1.80m-2.20m SHALE, DRY, RED, FRIABLE 2.20m-2.40m CLAY, PLASTICITY-FIRM, GREY, DRY 2.40m-4.70m SHALES, DRY FIRM/HARD, GREY TO RED	825m	North West
GW103666	0.00m-0.35m CLAY, RED, GREY, STICKY, PLASTICITY 0.35m-1.30m CLAY, GREY/GREEN, FIRM 1.30m-2.00m SHALES INTERBEDDED(FIRM, DRY) CLAY 2.00m-4.50m SHALES: FIRM, DRY, GREY	825m	North West
GW103667	0.00m-2.30m CLAY/STILT, BROWN/RED/GREY, STIFF, FIRM 2.30m-2.50m SHALE, FIRM, GREY/RED, DRY, FRIABLE 2.50m-2.70m CLAY FIRM, GREY, HOMOGENOUS 2.70m-2.90m SHALE, DRY, GREY/BROWN, FIRM 2.90m-4.00m CLAY, VERY MOIST, GREY 4.00m-4.50m CLAY, VERY MOIST, STICKY, GREY, GREEN	825m	North West
GW103668	0.00m-1.00m GRAVEL MIXED, MOTTLED GREY/CLAY 1.00m-2.70m CLAY: LIGHT GREY 2.70m-3.60m SHALE, GREY, BROWN, WEATHERED 3.60m-3.90m CLAY, BROWN, FIRM AND WET	825m	North West

Groundwater No	Drillers Log	Distance	Direction
GW103669	0.00m-1.50m SAND/CLAY, MINOR GRAVEL,BROWN 1.50m-3.70m CLAY,PALE YELLOW/BROWN,FIRM 3.70m-4.80m SHALE WEATHERED,CLAY,RED/GREY	825m	North West
GW103670	0.00m-0.50m FILL MATERIAL,GRAVEL,SAND,	825m	North West
GW103671	0.00m-0.17m FILL SAND MATERIAL,BLACK /GREY/CLAY 0.17m-0.25m CLAY,SOFT-FIRM,LIGHT GREY, 0.25m-1.30m CLAY/SILT,BROWN/BLACK 1.30m-1.50m CLAY/SILT,STICKY,RED 1.50m-1.70m SHALES,LOOSE,FRIABLE,FIRM 1.70m-2.10m CLAY SITICKY,MOIST,MINOR SAND 2.10m-3.00m SILTS/CLAY,GREY,BROWN,FIRM 3.00m-3.30m SHALE,RED FIRM 3.30m-5.10m SILT/CLAY,GREYT WITH RED MOTTLES.	825m	North West
GW103672	0.00m-0.13m SAND,MEDIUM GRAINED,LOOSE 0.13m-0.75m CLAY,FIRM,TIGHT,GREY/BROWN/IRON 0.75m-2.50m SILT/SANDY,BROWN,MEDIUM,PLASTICITY 2.50m-2.55m CLAY,GREY/WHITE,FIRM,LOW,DRY 2.55m-3.30m SHALE,DRY,GREY,BROWN,FRIABLE 3.30m-3.50m CLAY GREY/GREEN,FIRM 3.50m-4.50m SHALES,DRY,FIRM,DRY,FRIABLE	825m	North West
GW103673	0.00m-0.13m SAND,FILL 0.13m-1.00m CLAY,SILT 1.00m-1.50m CLAY/SILT,FRIABLE,LOOSE 1.50m-2.00m CLAY GREY/WHITE 2.00m-2.20m SHALE FRAGMENTS 2.20m-2.50m CLAY/SANDY SILT 2.50m-2.60m SHALES:BROWN/GREY/CLAY 2.60m-3.60m CLAY/SILT/GREY/GREEN 3.60m-4.30m SHALES,GREY,DRY,FIRM,FRIABLE	825m	North West
GW103674	0.00m-0.20m FILL,GRAVEL/CLAY,TRACE SAND 0.20m-1.50m CLAY,MOTTLED BROWN AND RED 1.50m-2.30m IRONSTONE,PALE,YELLOW,ORANGE/RED 2.30m-4.00m CLAY,MASSIVE MOTTLED LIGHT GREY/YELLOW 4.00m-5.90m CLAY,WEATHERED SHALE	825m	North West
GW103675	0.00m-0.15m FILL,FRAGMENTS OF SHALE,SAND 0.15m-1.00m CLAY,MOTTLED TEXTURE 1.00m-2.00m CLAY,STIFF,DARK BROWN 2.00m-2.80m CLAY,PLAE BROWN/IRONSTONE 2.80m-4.00m CLAY,MASSIVE TEXTURE,IRONSTONE 4.00m-5.60m CLAY,GREY,FRIABLE/WEATHERED SHALE	825m	North West
GW103676	0.00m-0.60m Fill,soil/sand,gravel,glass 0.60m-1.00m Clay,pale and dark brown,minor ironstone 1.00m-4.20m clay,bright yellow,small paches of ironstone 4.20m-5.60m clay/weathered shale,brown to grey	825m	North West
GW103677	0.00m-1.00m FILL,DARK GREY,LOOSE,GRAVEL,SAND 1.00m-1.70m FILL,DARK GREY,GRAVEL,SAND,MOIST 1.70m-3.10m CLAY,LIGHT GREY,PLASTIC, DRY 3.10m-4.50m SATURATED WATER,NO H/C ODOUR	825m	North West
GW103678	0.00m-1.00m FILL MATERIAL,SILT,GRAVELS/CLAYS 1.00m-2.20m CLAY/SILT,FIRM,RED/GREY 2.20m-4.00m SILT/CLAYS,GREY/BLACK,STIFF 4.00m-5.60m STIFF CLAYS,GREY GREEN WITH OCC. 5.60m-6.00m SHALES,HARD,FRIABLE	825m	North West
GW103679	0.00m-1.30m SAND,CONCRETE,FRAGMENT,FILL 1.30m-1.80m SAND,BLACK/GREY,FINE-MEDIUM GRAINED 1.80m-3.40m CLAY,SILT,PLASTIC,GREY/GREEN 3.40m-3.50m SAND MOIST,BLACK,FINE GRAINED 3.50m-5.00m CLAY/SILT,BROWN/GREY WITH OCC RED 5.00m-5.50m CLAYS WITH GRAVEL FRAGMENTS STIFF,FIRM	825m	North West
GW103680	0.00m-1.30m SAND,CONCRETE,FRAGMENT,FILL 1.30m-1.80m SAND BLACK/GREY,FINE,MEDIUM GRAINED 1.80m-3.40m CLAY,SILT,PLASTIC,GREY/GREEN 3.40m-3.50m SAND MOIS,BLACK,FINE GRAINED 3.50m-5.00m CLAY/SILT,BROWN/GREY WITH OCC RED 5.00m-5.50m CLAYS WITH GRAVEL FRAGMENTS	825m	North West
GW103681	0.00m-2.00m FILL,SAND,MEDIUM TO FINE GRAIN 2.00m-2.40m CLAY,FIRM,GREY/BROWN COLOUR 2.40m-3.40m FILL,BRICK MATERIAL,LOOSE,RED 3.40m-4.70m CLAY,FIRM,GREY/BROWN	825m	North West

Groundwater No	Drillers Log	Distance	Direction
GW103682	0.00m-1.10m SAND FILL 1.10m-1.40m CLAY,FILL MATERIAL,CONCRETE,GRAVEL 1.40m-1.50m FILL CONTINUES(ASHY) SILTY SAND 1.50m-2.00m CLAY,STIFF,MODERATE PLASTICITY 2.00m-2.20m SANDY SILT,WET,BROWN 2.20m-5.20m CLAY,GREY WITH RED MOTTLES 5.20m-5.40m COARSE GRAVELS,RED STAINING 5.40m-6.00m CLAYS,GREY,PLASTIC-FIRM	825m	North West
GW103683	0.00m-1.00m SOIL,BLACK WITH GRAVEL 1.00m-2.40m FILL,BRICK,SOME GRAVEL 2.40m-4.40m FILL COARSE/MEDIUM GRAINED 4.40m-5.00m FILL, CLAY,DRY BANDS 5.00m-6.00m CLAY VERY STIFF 6.00m-7.00m SANDSTONE,COARSE GRAINED	825m	North West
GW103684	0.00m-1.40m FILL MATERIAL,LOSS DRY CLAYS,SILTS 1.40m-2.00m CLAYS,GREY/YELLOW,FIRM 2.00m-4.40m CLAYS,STICKY,BROWN/GREY,PLASTIC 4.40m-4.90m SHALES, WEATHERED,RED,DAMP 4.90m-5.20m CLAY,FIRM GREY 5.20m-6.00m SHALES: RED,WEATHERED,MOIST	825m	North West
GW103685	0.00m-1.60m SILTS,CLAYS,GRAVELS,DRY BROWN 1.60m-3.20m CLAY/SILT,FIRM,DRY,ORANGE/BROWN 3.20m-4.40m CLAY,SOFT,PLASTIC,GREY/BROWN 4.40m-5.40m CLAYS,STICKY WITH ROCK/SHALE 5.40m-6.00m SHALES,OGHRE COLOUR,WET	825m	North West
GW103687	0.00m-1.00m SILT,CLAYS 1.00m-1.20m SHALE 1.20m-3.60m CLAY 3.60m-4.40m CLAY WITH SHALES	825m	North West
GW103688	0.00m-1.00m CLAY 1.00m-1.50m CLAY,SLIGHTLY SANDY 1.50m-3.60m CLAY,LIGHT GREY COLOUR	825m	North West
GW103689	0.00m-0.50m FILL,MOIST GREY CLAY 0.50m-1.60m CLAY,SOFT-FIRM 1.60m-2.60m CLAY SILT,STICKY,RED 2.60m-3.00m SAND,QUARTZ SAND 3.00m-3.40m CLAY, VERY STIFF 3.40m-3.50m SHALE AT BASE,WEATHERED BEDROCK	825m	North West
GW103690	0.00m-0.70m FILL WET,LARGE GRAVEL 0.70m-1.00m CLAY,LIGHT GREY 1.00m-1.40m SHALE,LIGHT GREY 1.40m-2.30m CLAY,LIGHT GREY,MOIST 2.30m-3.40m CLAY/SILT	825m	North West
GW111383	0.00m-0.25m CONCRETE 0.25m-0.90m FILL,BROKEN SILTY SANDY CLAY 0.90m-1.70m NATURAL FIRM BROWN SILTY CLAY 1.70m-2.10m STIFF GREY CLAY WITH IRONSTONE NODULES 2.10m-3.50m SHALE GREY MODERATE STRENGTH 3.50m-5.00m SHALE HIGH STRENGTH 5.00m-6.10m MODERATELY	1286m	North West
GW111382	0.00m-0.20m CONCRETE 0.20m-0.50m FILL,BROWN SILTY CLAY WITH GRAVEL 0.50m-2.10m NATURAL FIRM BROWN SILTY CLAY 2.10m-2.77m STIFF GREY CLAY WITH IRONSTONE NODULES 2.77m-4.00m STIFF TO HARD GREY CLAY 4.00m-4.30m GREY MODERATE STRENGHT W/SHALE 4.30m-5.20m GREY MODERATE STRENGHT W/SHALE 5.20m-6.40m GREY HIGH STRENGHT SHALE 6.40m-7.00m MODERATELY	1299m	North West
GW111381	0.00m-0.24m CONCRETE 0.24m-1.20m FILL,FIRM BROWN AND SILTY CLAY 1.20m-1.80m FILL,FIRM BROWN AND SILTY CLAY 1.80m-2.30m NATURAL FIRM BROWN AND SILTY CLAY 2.30m-3.90m CLAY,STIFF GREY 3.90m-4.50m BEDROCK GREY SLATE	1306m	North West
GW110410	0.00m-0.20m TOPSOIL 0.20m-3.50m CLAY 3.50m-7.00m SHALE	1391m	South East
GW110411	0.00m-0.20m TOPSOIL 0.20m-4.00m CLAY 4.00m-6.50m SHALE	1391m	South East

Groundwater No	Drillers Log	Distance	Direction
GW110412	0.00m-0.50m TOPSOIL 0.50m-3.00m CLAY 3.00m-8.80m SHALE	1447m	South East

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>



## Geology

Riverwood Estate, Riverwood, NSW 2210

### Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	1:100,000
Rwa	Black to dark grey shale and laminate	Ashfield Shale	Wianamatta Group		Triassic		Sydney	1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
mf/Qha	Man-made fill (dredged estuarine sand and mud, demolition rubble, industrial and household waste) overlying silty to peaty quartz sand, silt and clay with ferruginous & humic cementation in places and common shell layers				Quaternary		Sydney	1:100,000
Qha	Silty to peaty quartz sand, silt, and clay. Ferruginous and humic cementation in places. Common shell layers				Quaternary		Sydney	1:100,000
Rh	Medium to coarse grained quartz sandstone, very minor shale and laminate lenses				Triassic		Sydney	1:100,000
Rwa	Black to dark grey shale and laminate	Ashfield Shale	Wianamatta Group		Triassic		Sydney	1:100,000
water							Sydney	1:100,000

### Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Map Sheet	Dataset
No features				1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Dataset
Dyke			Sydney	1:100,000
Dyke			Sydney	1:100,000

Geological Data Source : NSW Department of Industry, Resources & Energy

© State of New South Wales through the NSW Department of Industry, Resources & Energy

## Naturally Occurring Asbestos Potential

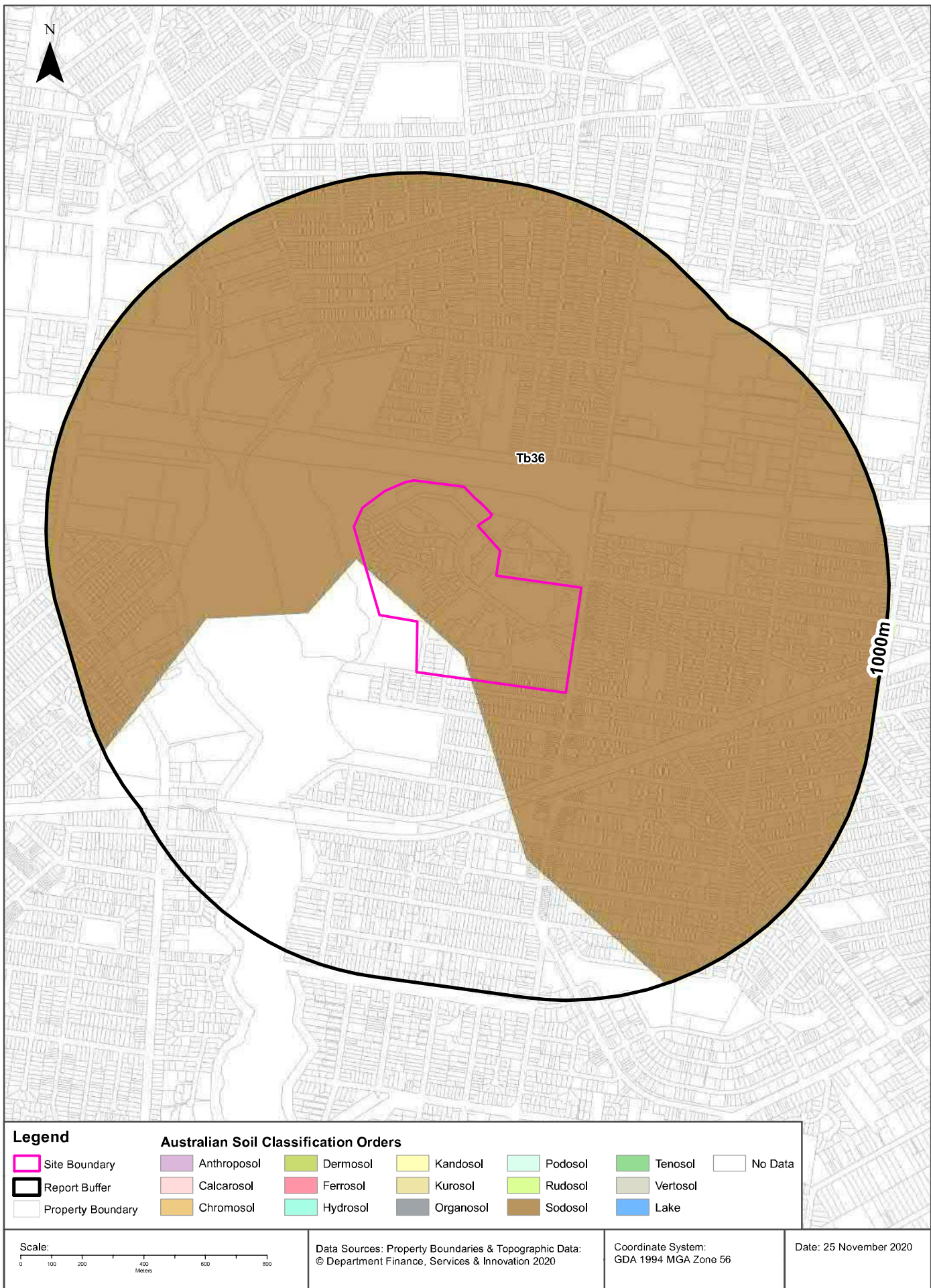
Riverwood Estate, Riverwood, NSW 2210

## Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy



## Soils

Riverwood Estate, Riverwood, NSW 2210

### Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

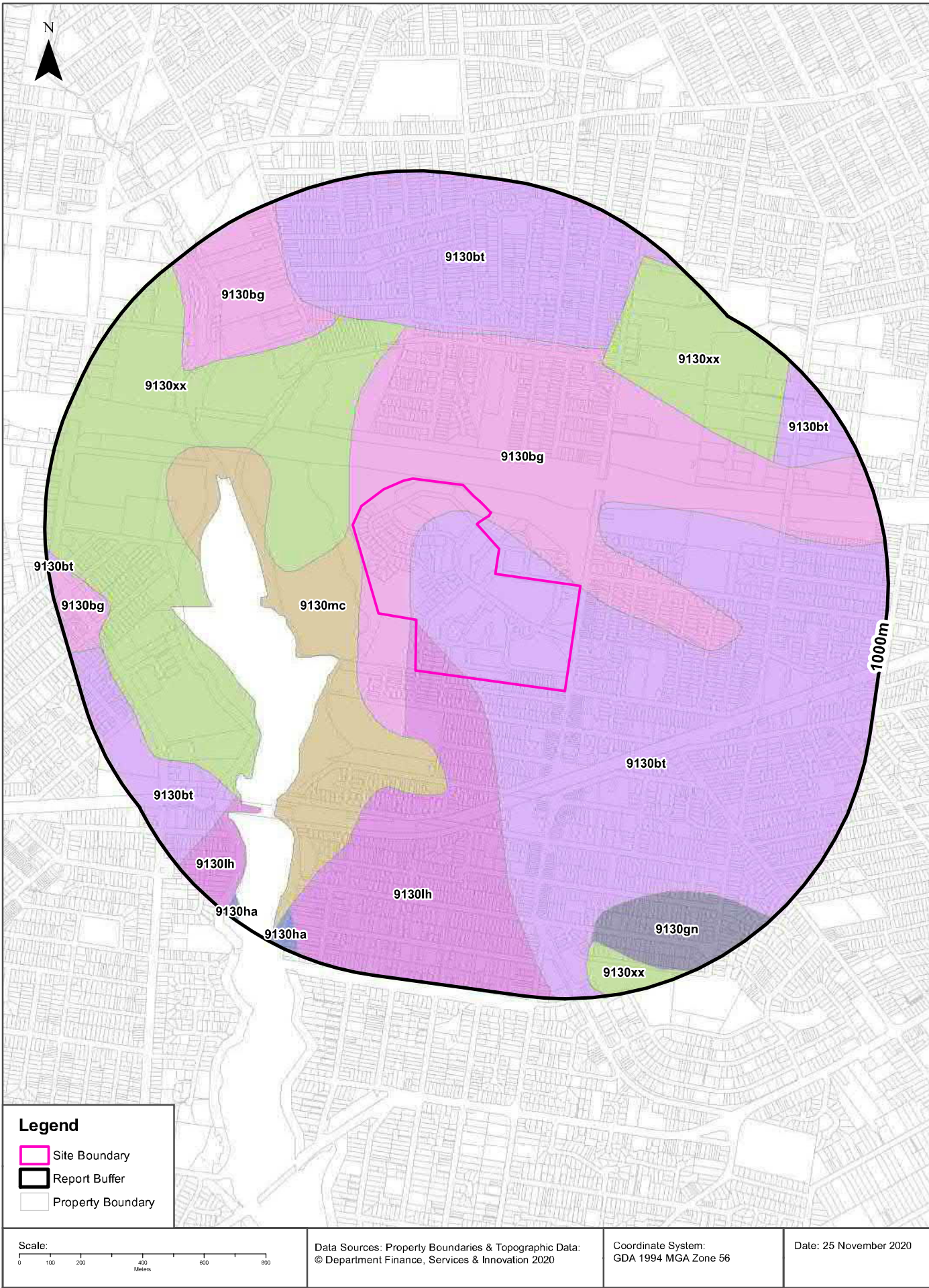
Map Unit Code	Soil Order	Map Unit Description	Distance
Tb36	Sodosol	Undulating: chief soils are hard acidic yellow mottled soils (Dy3.41) usually containing some ironstone gravels throughout the profile. Associated are small areas of units Pb12 and Pb13.	0m

Atlas of Australian Soils Data Source: CSIRO

Creative Commons 4.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/4.0/au/deed.en>

# Soil Landscapes of Central and Eastern NSW

Riverwood Estate, Riverwood, NSW 2210



## Soils

Riverwood Estate, Riverwood, NSW 2210

### Soil Landscapes of Central and Eastern NSW

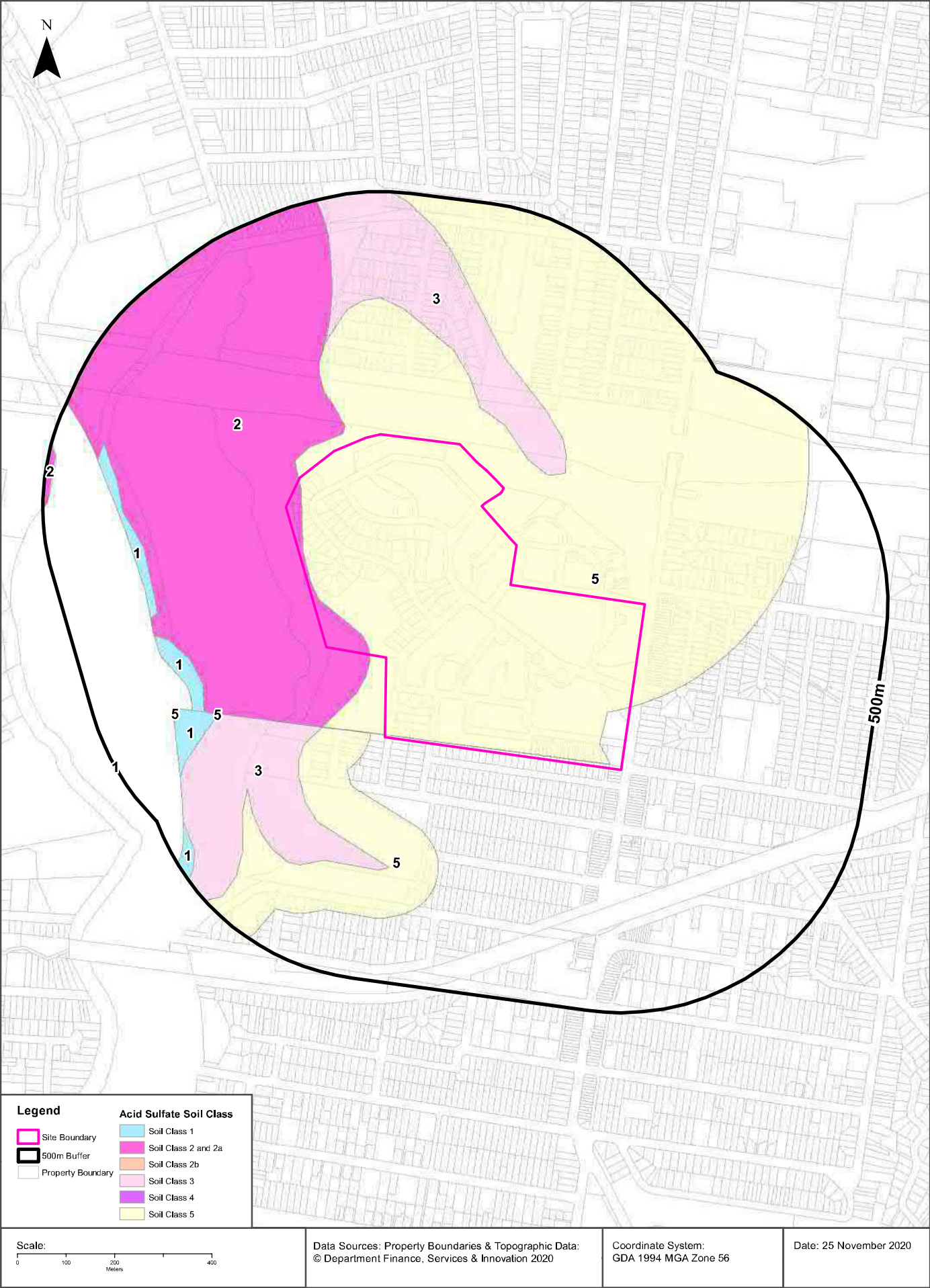
What are the on-site Soil Landscapes?

Soil Code	Name
<a href="#">9130bg</a>	Birrong
<a href="#">9130bt</a>	Blacktown
<a href="#">9130lh</a>	Lucas Heights

What are the Soil Landscapes within the dataset buffer?

Soil Code	Name
<a href="#">9130bg</a>	Birrong
<a href="#">9130bt</a>	Blacktown
<a href="#">9130gn</a>	Glenorie
<a href="#">9130ha</a>	Hawkesbury
<a href="#">9130lh</a>	Lucas Heights
<a href="#">9130mc</a>	Mangrove Creek
<a href="#">9130xx</a>	Disturbed Terrain

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment  
Creative Commons 4.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/4.0/au/deed.en>



## Acid Sulfate Soils

Riverwood Estate, Riverwood, NSW 2210

### Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
2	Works below natural ground surface present an environmental risk; Works by which the watertable is likely to be lowered present an environmental risk	Canterbury Local Environmental Plan 2012

If the on-site Soil Class is 5, what other soil classes exist within 500m?

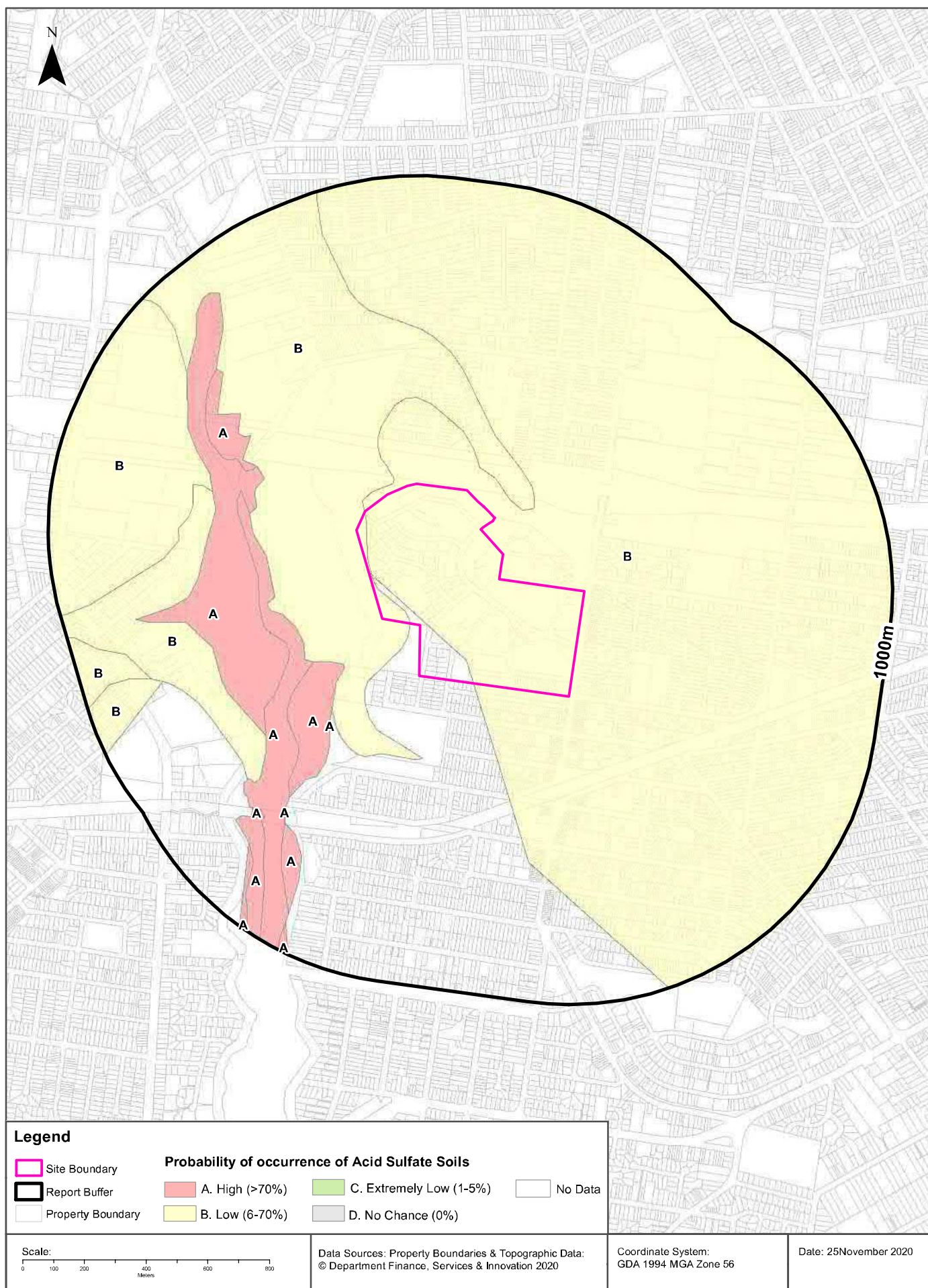
Soil Class	Description	EPI Name	Distance	Direction
N/A				

NSW Crown Copyright - Planning and Environment

Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

# Atlas of Australian Acid Sulfate Soils

Riverwood Estate, Riverwood, NSW 2210



## Acid Sulfate Soils

Riverwood Estate, Riverwood, NSW 2210

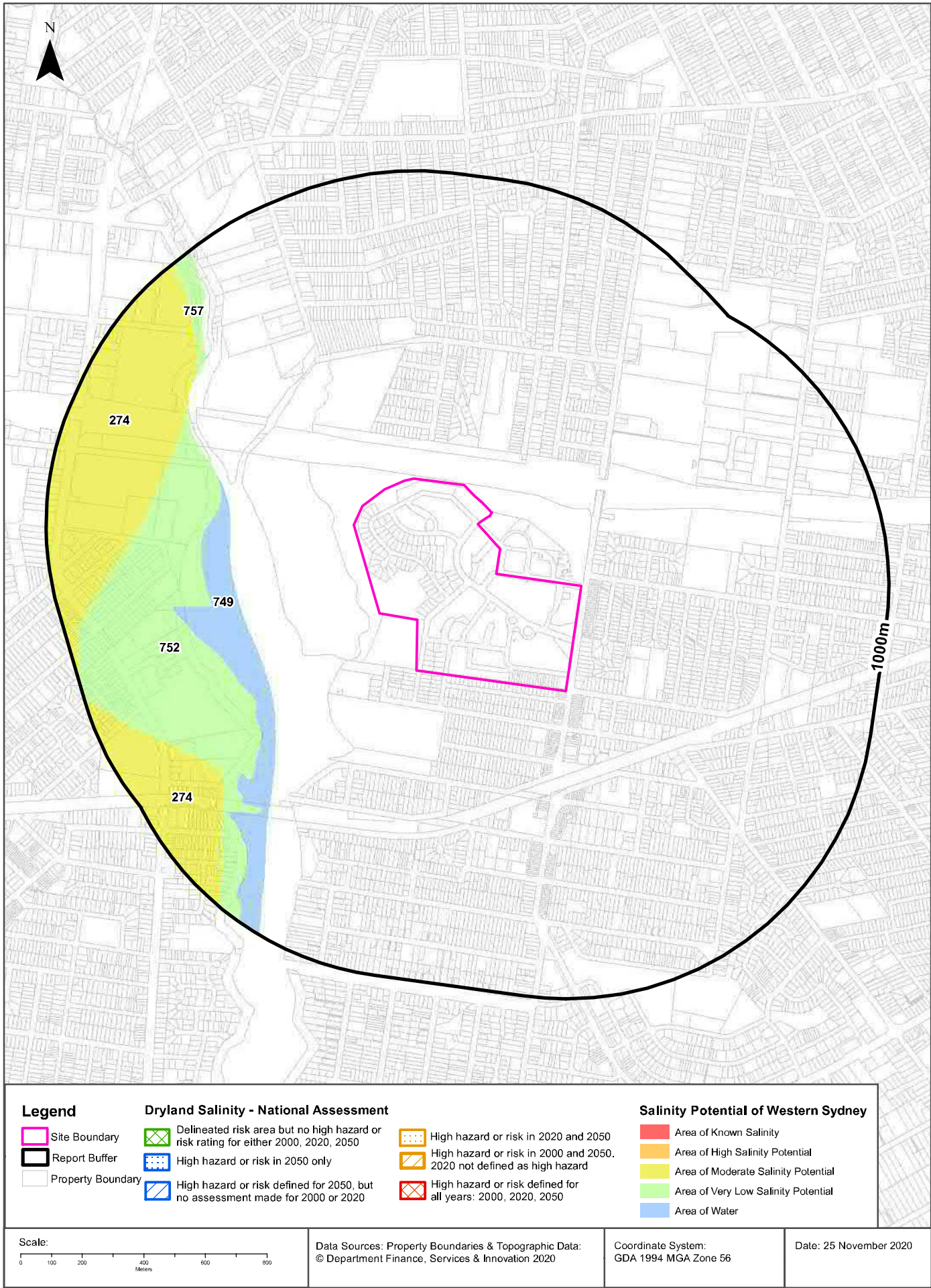
### Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m
A	High Probability of occurrence. >70% chance of occurrence.	193m

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>



## Dryland Salinity

Riverwood Estate, Riverwood, NSW 2210

### Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A	N/A	N/A

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

### Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
749	WATER	Area of Water	402m	West
752	LOW	Area of Very Low Salinity Potential	440m	South West
274	MODERATE	Area of Moderate Salinity Potential	634m	West
757	LOW	Area of Very Low Salinity Potential	680m	North West

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Mining

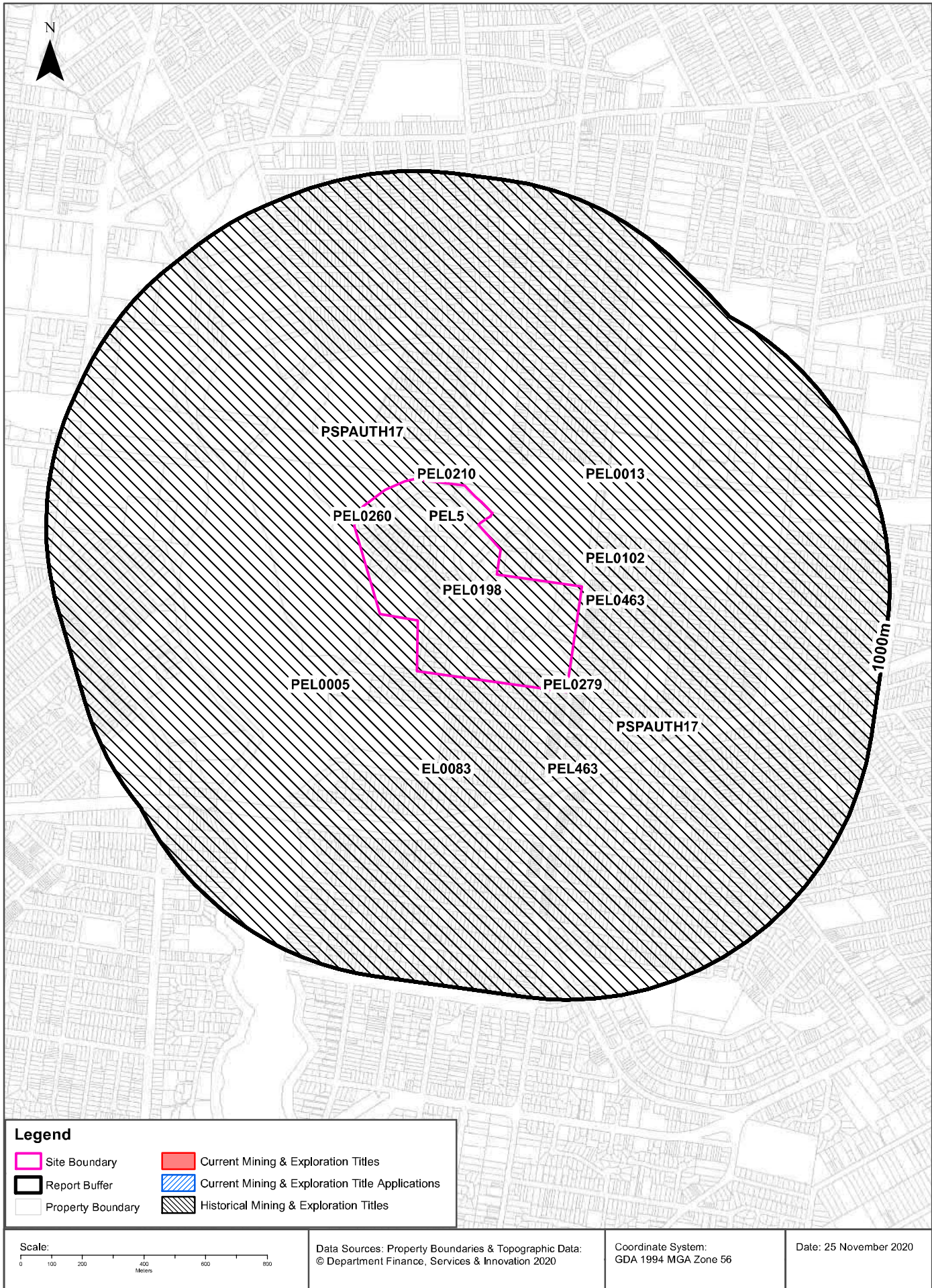
Riverwood Estate, Riverwood, NSW 2210

### Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>



## Mining

Riverwood Estate, Riverwood, NSW 2210

### Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist (m)	Dir'
N/A	No Records in Buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

### Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist (m)	Dir'
N/A	No Records in Buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

# Mining

Riverwood Estate, Riverwood, NSW 2210

## Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist (m)	Dir'
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	01 Feb 1967	01 Feb 1968	MINERALS		0m	Onsite
PEL0005	AGL UPSTREAM INVESTMENTS PTY LIMITED	11/11/1993	4/03/2015	PETROLEUM	Petroleum	0m	Onsite
PEL0013	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	Onsite
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	Onsite
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	Onsite
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	Onsite
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	9/09/1981	8/03/1993	PETROLEUM	Petroleum	0m	Onsite
PEL0279	THE ELECTRICITY COMMISSION OF NSW (TRADING AS PACIFIC POWER)	17/04/1990	11/11/1993	PETROLEUM	Petroleum	0m	Onsite
PEL0463	DART ENERGY (APOLLO) PTY LTD	22/10/2008	6/03/2015	PETROLEUM	Petroleum	0m	Onsite
PEL463	DART ENERGY (APOLLO) PTY LTD			MINERALS		0m	Onsite
PEL5	AGL UPSTREAM INVESTMENTS PTY LIMITED			MINERALS		0m	Onsite
PSPAUTH17	MACQUARIE ENERGY PTY LTD			MINERALS		0m	Onsite
PSPAUTH17	MACQUARIE ENERGY PTY LTD	8/03/2007	7/03/2008	PETROLEUM	Petroleum	0m	Onsite

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

## State Environmental Planning Policy

Riverwood Estate, Riverwood, NSW 2210

### State Significant Precincts

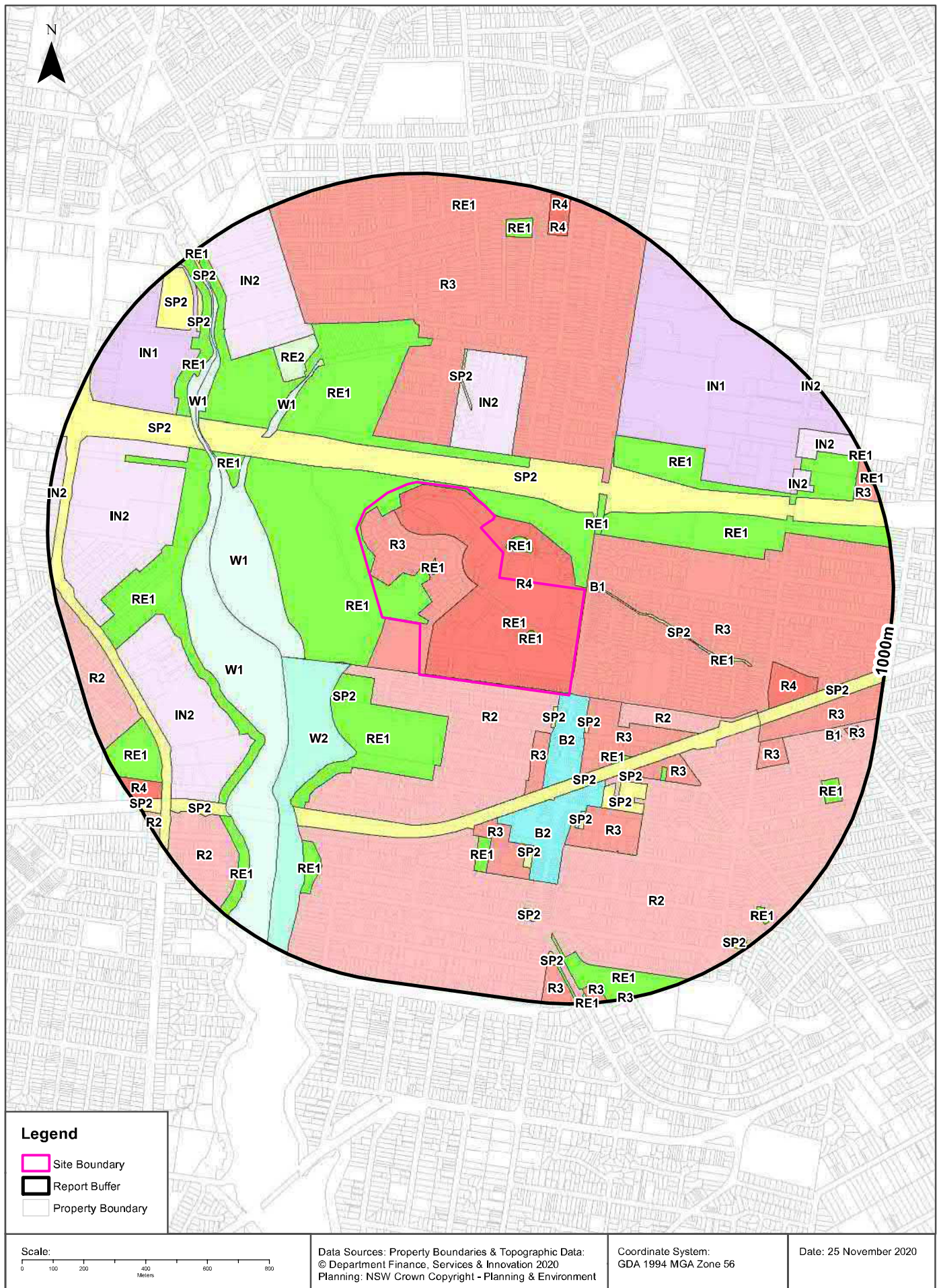
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No Records in Buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment  
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

# EPI Planning Zones

Riverwood Estate, Riverwood, NSW 2210



# Environmental Planning Instrument

Riverwood Estate, Riverwood, NSW 2210

## Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R4	High Density Residential		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		0m	Onsite
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		0m	Onsite
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		0m	Onsite
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		0m	Onsite
B2	Local Centre		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		0m	South East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	05/03/2015	05/03/2015	20/03/2020	Amendment No 6	0m	East
SP2	Infrastructure	Classified Road	Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		7m	North East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		18m	North East
B1	Neighbourhood Centre		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		23m	East
SP2	Infrastructure	Drainage	Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		25m	East
B1	Neighbourhood Centre		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		27m	East
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		42m	South East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		63m	South East
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		88m	South East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		96m	North West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		118m	South West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		127m	North
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		128m	South East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		129m	North
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		169m	South East
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		184m	North East
W2	Recreational Waterways		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		184m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		186m	East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		225m	South East
SP2	Infrastructure	Sewerage System	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		248m	South West
SP2	Infrastructure	Drainage	Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		251m	North
SP2	Infrastructure	Railway	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		255m	South
W1	Natural Waterways		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		271m	West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
B2	Local Centre		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		296m	South
R2	Low Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		296m	South East
SP2	Infrastructure	Community Purposes	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		304m	South East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		316m	South East
SP2	Infrastructure	Church & Educational Est.	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		316m	South East
W1	Natural Waterways		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		350m	South West
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		362m	South East
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		377m	South East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		379m	South East
W1	Natural Waterways		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		386m	North West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		412m	North East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		424m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		442m	East
RE2	Private Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		461m	North West
IN1	General Industrial		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		472m	North East
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		482m	West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		492m	South
SP2	Infrastructure	Car Park	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		496m	South
SP2	Infrastructure	Road Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		550m	North West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		558m	North West
IN2	Light Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		573m	South West
IN2	Light Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		579m	West
W1	Natural Waterways		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		602m	North West
SP2	Infrastructure	Railways	Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		610m	East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		623m	East
R4	High Density Residential		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		633m	East
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		635m	South East
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		639m	North West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		641m	South West
IN1	General Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		686m	North West
SP2	Infrastructure	Emergency Services Facility	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		702m	South
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		743m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
SP2	Infrastructure	Rail Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		753m	South West
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		763m	South West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		772m	South East
SP2	Infrastructure	Electricity Transmission & Distribution	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		785m	North West
R2	Low Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		793m	South West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		807m	North East
SP2	Infrastructure	Electricity Transmission & Distribution	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		813m	North West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		827m	North
SP2	Infrastructure	Emergency Services Facility	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		832m	South
RE1	Public Recreation		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		835m	South West
R2	Low Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		843m	West
B1	Neighbourhood Centre		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		853m	East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		860m	South East
R4	High Density Residential		Canterbury Local Environmental Plan 2012	11/12/2015	11/12/2015	20/03/2020	Amendment No 9	864m	North
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		873m	South
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		876m	South
R4	High Density Residential		Canterbury Local Environmental Plan 2012	05/03/2015	05/03/2015	20/03/2020	Amendment No 6	882m	North
R4	High Density Residential		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		891m	South West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		892m	North
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		893m	East
R4	High Density Residential		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		900m	North
SP2	Infrastructure	Drainage	Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		907m	North West
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		912m	South East
R3	Medium Density Residential		Canterbury Local Environmental Plan 2012	15/11/2019	15/11/2019	20/03/2020	Amendment No 17	918m	North East
SP2	Infrastructure	Electricity Transmission	Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		925m	South East
SP2	Infrastructure	Rail Infrastructure Facility	Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		925m	South West
R3	Medium Density Residential		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		941m	South East
IN2	Light Industrial		Bankstown Local Environmental Plan 2015	05/03/2015	05/03/2015	05/07/2019		962m	West
IN2	Light Industrial		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		964m	North East
RE1	Public Recreation		Hurstville Local Environmental Plan 2012	07/12/2012	07/12/2012	07/08/2020		966m	South
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		972m	North West
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		987m	East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Canterbury Local Environmental Plan 2012	21/12/2012	01/01/2013	20/03/2020		988m	East

Environmental Planning Instrument Data Source: NSW Crown Copyright - Planning & Environment  
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

## Heritage

Riverwood Estate, Riverwood, NSW 2210

### Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch  
Creative Commons 3.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/3.0/au/deed.en>

### National Heritage List

What are the National Heritage List Items located within the dataset buffer?

Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch  
Creative Commons 3.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/3.0/au/deed.en>

### State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage  
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

### Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
N/A	No records in buffer								

Heritage Data Source: NSW Crown Copyright - Planning & Environment  
Creative Commons 4.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/4.0/>

## Natural Hazards

Riverwood Estate, Riverwood, NSW 2210

### Bush Fire Prone Land

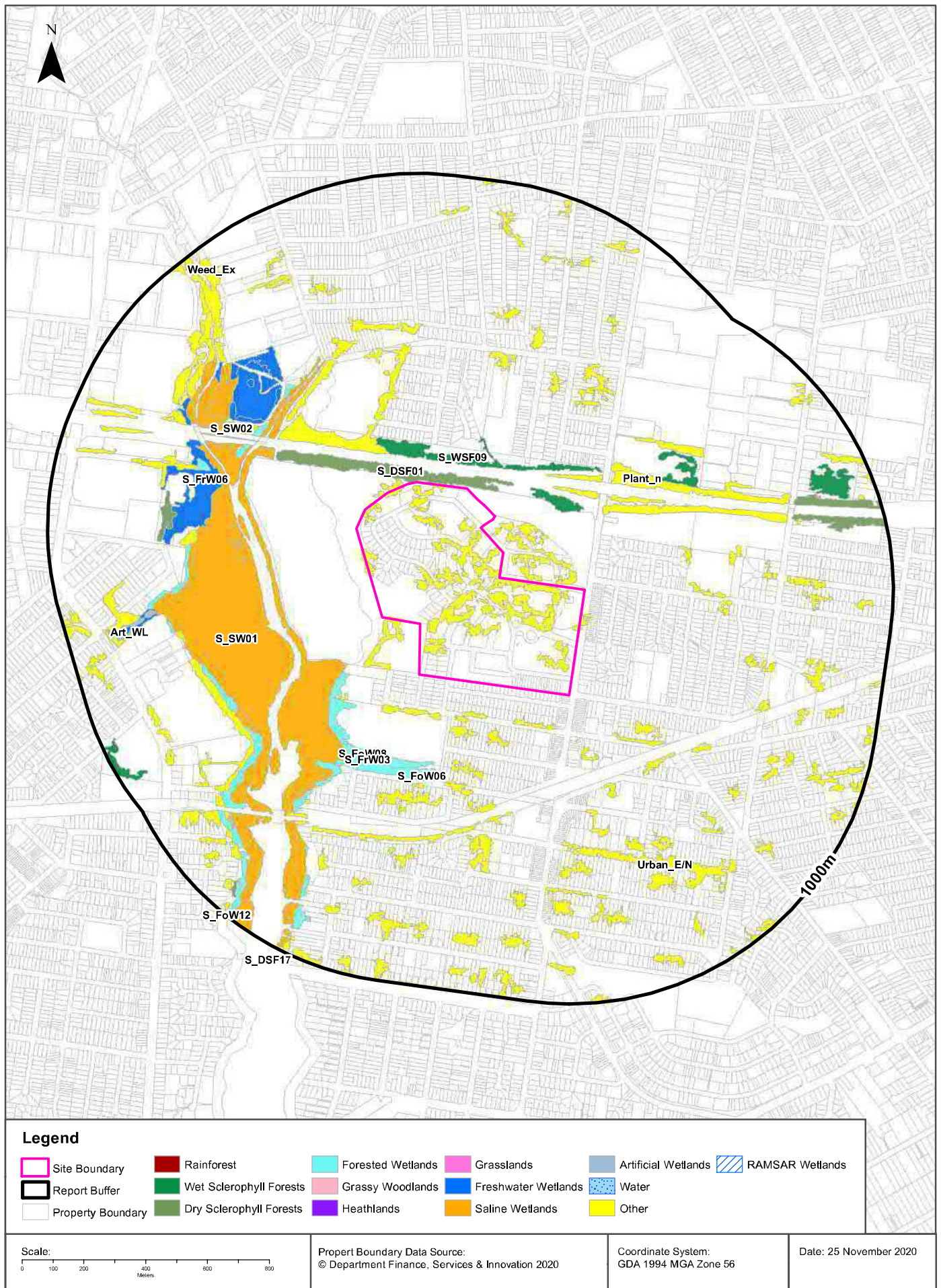
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records within buffer		

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

# Ecological Constraints - Native Vegetation & RAMSAR Wetlands

Riverwood Estate, Riverwood, NSW 2210



# Ecological Constraints

Riverwood Estate, Riverwood, NSW 2210

## Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Direction
S_DSF01	S_DSF01: Castlereagh Ironbark Forest	Castlereagh/ Cooks River Ironbark Forest		30: Melaleuca dominant	19: Clearing/Part clearing	4: Very high	S.glomulifera/E.fibrosa	0m	Onsite
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/Native	0m	Onsite
S_WSF09	S_WSF09: Sydney Turpentine-Ironbark Forest	Sydney Turpentine Ironbark Forest	Turpentine Ironbark Forest (possible)	13: Dry shrubs and grasses	14: Canopy gaps	3: High	S.glomulifera/E.fibrosa	73m	North
Plant_n	Plant_n: Plantation (native and/or exotic)			00: Not assessed	00: Not assessed	0: Not assessed	Native or Exotic Plantations	114m	North West
S_SW02	S_SW02: Estuarine Saltmarsh	Coastal Saltmarsh	Subtropical and Temperate Coastal Saltmarsh (possible)	00: Not assessed	00: Not assessed	0: Not assessed	S.repens/S.quinqueflora/S.virginicus/J.krausii	188m	South West
S_SW01	S_SW01: Estuarine Mangrove Forest			00: Not assessed	00: Not assessed	0: Not assessed	Mangroves	191m	South West
S_FoW08	S_FoW08: Estuarine Swamp Oak Forest	Swamp Oak Floodplain Forest		30: Melaleuca dominant	15: Regrowth	1: Low	C.glauca	212m	South West
S_FoW06	S_FoW06: Cumberland Riverflat Forest	River Flat Eucalypt Forest		30: Melaleuca dominant	27: Pittosporum	2: Moderate	A.floribunda/C.glauca	294m	South
S_FrW03	S_FrW03: Coastal Freshwater Wetland	Freshwater Wetlands on Coastal Floodplains		00: Not assessed	00: Not assessed	0: Not assessed	T.orientalis/fresh water sedges	319m	South West
S_FrW06	S_FrW06: Estuarine Reedland	Swamp Oak Floodplain Forest		00: Not assessed	00: Not assessed	0: Not assessed	P.australis/B.juncus	432m	North West
S_FrW06	S_FrW06: Estuarine Reedland	Swamp Oak Floodplain Forest		00: Not assessed	13: Weeds	3: High	P.australis/B.juncus	432m	North West
Weed_Ex	Weed_Ex: Weeds and Exotics			00: Not assessed	00: Not assessed	0: Not assessed	Exotic Species >90%cover	633m	West
Art_WL	Art_WL: Artificial Wetland			00: Not assessed	00: Not assessed	0: Not assessed	Artificial wetland	704m	West
S_FoW12	S_FoW12: Coastal Swamp Paperbark-Swamp Oak Scrub	Swamp Oak Floodplain Forest		30: Melaleuca dominant	15: Regrowth	1: Low	C.glauca/M.ericifolia	887m	South West
S_DSF17	S_DSF17: Sydney Hinterland Apple-Blackbutt Gully Forest			17: Pittosporum dominant	24: Urban mixed use	4: Very high	E.pilularis/E.punctata/A.costata/E.racemosa	996m	South West

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage

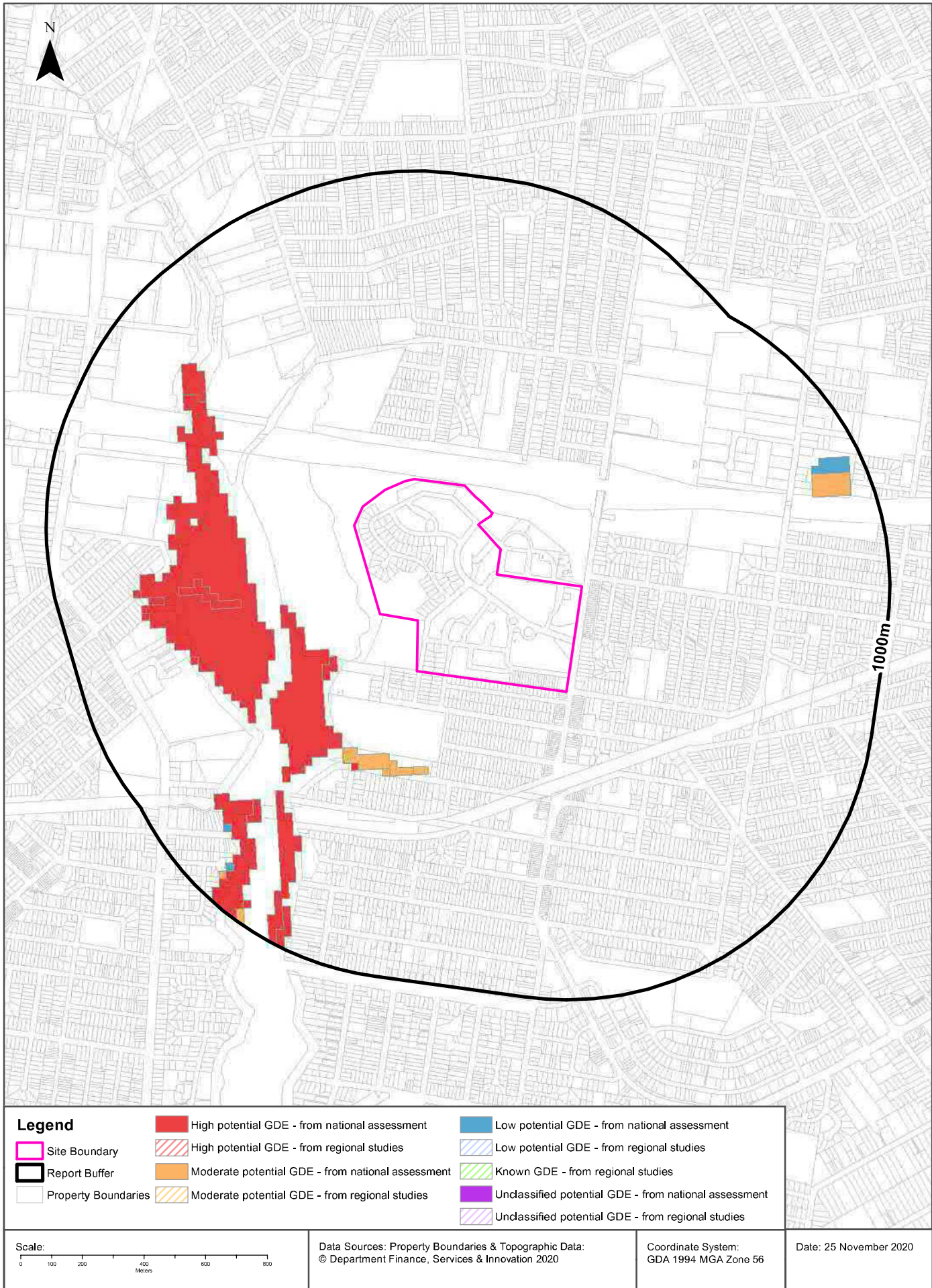
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Environment



# Ecological Constraints

Riverwood Estate, Riverwood, NSW 2210

## Groundwater Dependent Ecosystems Atlas

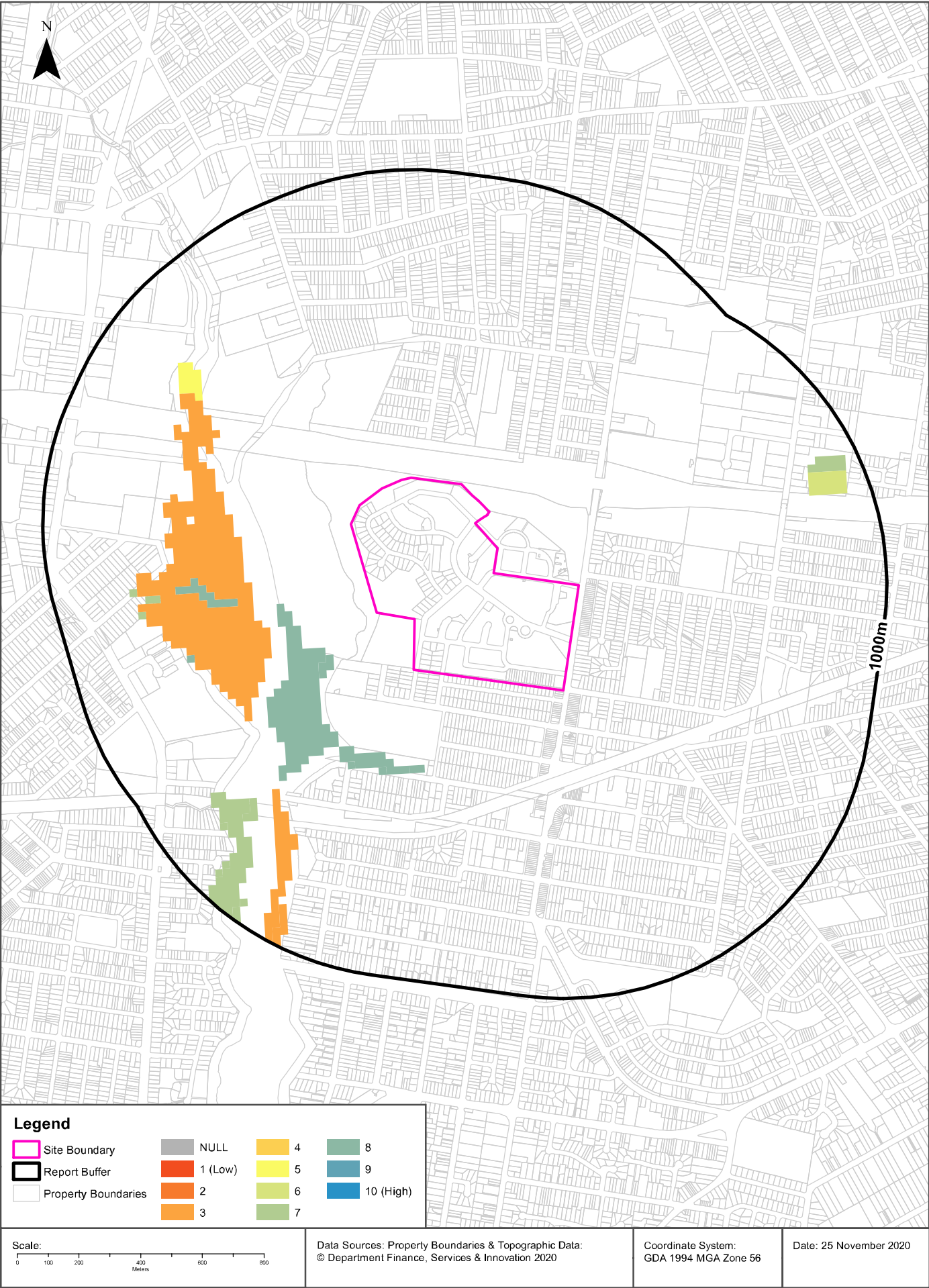
Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation		195m
Terrestrial	Moderate potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	280m
Terrestrial	Low potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	781m

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Riverwood Estate, Riverwood, NSW 2210



## Ecological Constraints

Riverwood Estate, Riverwood, NSW 2210

### Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	8	Undulating to low hilly country, mainly on shale.	Vegetation		195m
Terrestrial	3	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	345m
Terrestrial	5	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	612m
Terrestrial	7	Undulating to low hilly country, mainly on shale.	Vegetation		656m
Terrestrial	6	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	802m

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology  
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

## Ecological Constraints

Riverwood Estate, Riverwood, NSW 2210

### NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	<i>Crinia tinnula</i>	Wallum Froglet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Amphibia	<i>Litoria aurea</i>	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	<i>Pseudophryne australis</i>	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Actitis hypoleucos</i>	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Anseranas semipalmata</i>	Maggie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Anthochaera phrygia</i>	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	<i>Apus pacificus</i>	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Ardenna pacifica</i>	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	<i>Ardenna tenuirostris</i>	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Arenaria interpres</i>	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Botaurus poiciloptilus</i>	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	<i>Burhinus grallarius</i>	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	<i>Calidris acuminata</i>	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris alba</i>	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris canutus</i>	Red Knot	Not Listed	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris ferruginea</i>	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris ruficollis</i>	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Calidris tenuirostris</i>	Great Knot	Vulnerable	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Calyptorhynchus banksii banksii</i>	Red-tailed Black-Cockatoo (coastal subspecies)	Critically Endangered	Category 2	Not Listed	
Animalia	Aves	<i>Calyptorhynchus banksii samueli</i>	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	<i>Calyptorhynchus lathami</i>	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	<i>Certhionyx variegatus</i>	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Charadrius leschenaultii</i>	Greater Sand-plover	Vulnerable	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Charadrius mongolus</i>	Lesser Sand-plover	Vulnerable	Not Sensitive	Endangered	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Cyanoramphus novaezelandiae subflavescens	Red-crowned Parakeet (Lord Howe Is. subsp.)	Presumed Extinct	Not Sensitive	Extinct	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Ephippiorhynchus asiaticus	Black-necked Stork	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco hypoleucos	Grey Falcon	Endangered	Category 2	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta porphyrocephala	Purple-crowned Lorikeet	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Limicola falcinellus	Broad-billed Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Limosa lapponica baueri	Bar-tailed Godwit (baueri)	Not Listed	Not Sensitive	Vulnerable	
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Neochmia ruficauda	Star Finch	Presumed Extinct	Not Sensitive	Endangered	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica rodinogaster	Pink Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis anthopeplus monarchoides	Regent Parrot (eastern subspecies)	Endangered	Category 3	Vulnerable	
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Sternula albigula	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Tringa brevipes	Grey-tailed Tattler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa incana	Wandering Tattler	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Gastropoda	Meridolum corneovirens	Cumberland Plain Land Snail	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Endangered Population	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Petrogale penicillata	Brush-tailed Rock-wallaby	Endangered	Not Sensitive	Vulnerable	
Animalia	Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Eulamprus leuraensis	Blue Mountains Water Skink	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Hoplocephalus stephensii	Stephens' Banded Snake	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Suta flagellum	Little Whip Snake	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Uvidiculus sphyrurus	Border Thick-tailed Gecko	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Varanus rosenbergi	Rosenberg's Goanna	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia prominens	Gosford Wattle	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Acacia pubescens	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia terminalis subsp. terminalis	Sunshine Wattle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Allocasuarina diminuta subsp. mimica		Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Allocasuarina glauca		Endangered	Not Sensitive	Endangered	
Plantae	Flora	Caesia parviflora var. minor	Small Pale Grass-lily	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Caladenia tessellata	Thick Lip Spider Orchid	Endangered	Category 2	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	Deyeuxia appressa		Endangered	Not Sensitive	Endangered	
Plantae	Flora	Epacris purpurascens var. purpurascens		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus camfieldii	Camfield's Stringybark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Grevillea beadleana	Beadle's Grevillea	Endangered	Category 3	Endangered	
Plantae	Flora	Grevillea parviflora subsp. parviflora	Small-flower Grevillea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Hibbertia fumana		Critically Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Hibbertia puberula		Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Hibbertia sp. Bankstown		Critically Endangered	Not Sensitive	Critically Endangered	
Plantae	Flora	Hibbertia stricta subsp. furcatula		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Isotoma fluviatilis subsp. fluviatilis		Not Listed	Not Sensitive	Extinct	
Plantae	Flora	Leucopogon exolasius	Woronora Beard-heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Marsdenia viridiflora subsp. viridiflora	Native Pear	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Maundia triglochinoides		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Persoonia nutans	Nodding Geebung	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Pimelea spicata	Spiked Rice-flower	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Pomaderris prunifolia	Plum-leaf Pomaderris	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Prostanthera saxicola		Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Pterostylis gibbosa	Illawarra Greenhood	Endangered	Category 2	Endangered	
Plantae	Flora	Pterostylis saxicola	Sydney Plains Greenhood	Endangered	Category 2	Endangered	
Plantae	Flora	Pultenaea aristata	Prickly Bush-pea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pultenaea parviflora		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Pultenaea pedunculata	Matted Bush-pea	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetradlea juncea	Black-eyed Susan	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Thesium australe	Austral Toadflax	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Wahlenbergia multicaulis	Tadgell's Bluebell	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Wilsonia backhousei	Narrow-leafed Wilsonia	Vulnerable	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

## Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise match	Georeferenced to the site location / premise or part of site
General area or suburb match	Georeferenced with the confidence of the general/approximate area
Road match	Georeferenced to the road or rail
Road intersection	Georeferenced to the road intersection
Feature is a buffered point	Feature is a buffered point
Land adjacent to geocoded site	Land adjacent to Georeferenced Site
Network of features	Georeferenced to a network of features

## USE OF REPORT - APPLICABLE TERMS

The following terms apply to any person (End User) who is given the Report by the person who purchased the Report from Lotsearch Pty Ltd (ABN: 89 600 168 018) (Lotsearch) or who otherwise has access to the Report (Terms). The contract terms that apply between Lotsearch and the purchaser of the Report are specified in the order form pursuant to which the Report was ordered and the terms set out below are of no effect as between Lotsearch and the purchaser of the Report.

1. End User acknowledges and agrees that:
  - (a) the Report is compiled from or using content (**Third Party Content**) which is comprised of:
    - (i) content provided to Lotsearch by third party content suppliers with whom Lotsearch has contractual arrangements or content which is freely available or methodologies licensed to Lotsearch by third parties with whom Lotsearch has contractual arrangements (**Third Party Content Suppliers**); and
    - (ii) content which is derived from content described in paragraph (i);
  - (b) Neither Lotsearch nor Third Party Content Suppliers takes any responsibility for or give any warranty in relation to the accuracy or completeness of any Third Party Content included in the Report including any contaminated land assessment or other assessment included as part of a Report;
  - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**) and accordingly neither Lotsearch nor Third Party Content Suppliers gives any warranty in relation to the accuracy or completeness of the Third Party Content incorporated into the report including any contaminated land assessment or other assessment included as part of a Report;
  - (d) Reports are generated at a point in time (as specified by the date/time stamp appearing on the Report) and accordingly the Report is based on the information available at that point in time and Lotsearch is not obliged to undertake any additional reporting to take into consideration any information that may become available between the point in time specified by the date/time stamp and the date on which the Report was provided by Lotsearch to the purchaser of the Report;
  - (e) Reports must be used or reproduced in their entirety and End User must not reproduce or make available to other persons only parts of the Report;
  - (f) Lotsearch has not undertaken any physical inspection of the property;
  - (g) neither Lotsearch nor Third Party Content Suppliers warrants that all land uses or features whether past or current are identified in the Report;
  - (h) the Report does not include any information relating to the actual state or condition of the Property;
  - (i) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of Land or Property for any particular purpose
  - (j) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
  - (k) the End User should undertake its own inspections of the Land or Property to satisfy itself that there are no defects or failures
2. The End User may not make the Report or any copies or extracts of the report or any part of it available to any other person. If End User wishes to provide the Report to any other person or make extracts or copies of the Report, it must contact the purchaser of the Report before doing so to ensure the proposed use is consistent with the contract terms between Lotsearch and the purchaser.
3. Neither Lotsearch (nor any of its officers, employees or agents) nor any of its Third Party Content Suppliers will have any liability to End User or any person to whom End User provides the Report and End User must not represent that Lotsearch or any of its Third Party Content Suppliers accepts liability to any such person or make any other representation to any such person on behalf of Lotsearch or any Third Party Content Supplier.
4. The End User hereby to the maximum extent permitted by law:
  - (a) acknowledges that the Lotsearch (nor any of its officers, employees or agents), nor any

- of its Third Party Content Supplier have any liability to it under or in connection with the Report or these Terms;
- (b) waives any right it may have to claim against Third Party Content Supplier in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms; and
  - (c) releases each Third Party Content Supplier from any claim it may have otherwise had in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms.
5. The End User acknowledges that any Third Party Supplier shall be entitled to plead the benefits conferred on it under clause 4, despite not being a party to these terms.
  6. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
  7. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
  8. To the extent permitted by law and subject to paragraph 9, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these Terms other than as expressly set out in these Terms are excluded.
  9. Subject to paragraph 6, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
  10. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
  11. Subject to paragraph 9, neither Lotsearch nor the End User is liable to the other for:
    - (a) any indirect, incidental, consequential, special or exemplary damages arising out of or in relation to the Report or these Terms; or
    - (b) any loss of profit, loss of revenue, loss of interest, loss of data, loss of goodwill or loss of business opportunities, business interruption arising directly or indirectly out of or in relation to the Report or these Terms,
 irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
  12. These Terms are subject to New South Wales law.

**DRAFT**

# **Appendix C**

## **Council Records**

# Riverwood NSW

From Canterbury Commons

*The foundation of this article derives from early library leaflets from the 1980s. Please see Local History Leaflets (City of Canterbury Library Service).*

## Contents

- 1 History of Riverwood
- 2 Early History
- 3 Transport
- 4 Robert Levingston and Golfcourse
- 5 118 General Hospital
- 6 Herne Bay Housing Settlement
- 7 Later Developments
- 8 Sources
- 9 References

## History of Riverwood



Looking east to Herne Bay (now Riverwood) Railway Station, from Webb Street, Riverwood, 1950. Photograph courtesy E & L Nagle.

Riverwood is a suburb located on the border of City of Canterbury (Local Government Area). It is mainly within the Hurstville Municipality. When the railway to East Hills was opened in 1931, the station was named Herne Bay after a small arm of Salt Pan Creek. In 1958 the name was changed to Riverwood.

### Riverwood Sydney, New South Wales



<b>Population:</b>	10,225 (2011 Census)
<b>Postcode:</b>	2210
<b>LGA:</b>	City of Canterbury, City of Hurstville

## Early History

From 1788 to 1810 the area was inhabited by Aborigines with an occasional visit from escaped convicts or hunters employed by the Government.

White settlement in the area officially began in 1810 with a series of land grants. Early grantees included:

David Batty - 1810  
 William Holmes - 1810  
 Andrew Murphy - 1810  
 Francis Piper - 1823  
 Richard Calcutt - 1810  
 Robert Lack - 1810  
 George Pashley - 1810  
 James Plunkett - 1810

Market gardeners and timber getters mainly occupied the area between Hurstville and Liverpool. Saw pits were dug and the sound of an axe and the rip of saws were heard across the land. The charcoal burners came, and many land owners in the area began finding deposits of ashes on their properties.

## Transport



Looking east to Herne Bay (now Riverwood) Railway Station, from Webb Street, Riverwood, 1950. Photograph courtesy E & L Nagle.

Herne Bay Railway Station (now Riverwood) opened on 21 December, 1931. A rail motor passed through the station until 17 December, 1939 because the line (East Hills) was only electrified as far as Kingsgrove. The line remained single until 30 November, 1948. The number of employees and passengers journeying on the line were:

1933 - 3 Staff, 61,103 passengers  
 1936 - 3 Staff, 83,112 passengers  
 1983 - 4 Staff, 106,765 passengers

## Robert Levingston and Golfcourse

Robert Levingston owned 140 acres in the area bounded by Canterbury Road, Belmore Road, Salt Pan Creek and the East Hills Railway Line. He lived in a slab humpy

with his wife and five children. The Levingston family later turned the property into a Golf Course and converted the slab humpy to a members club house. Members of Robert Levingston's family were still living on the property in 1943 when it was taken over for the US Army's 118 General Hospital.

## 118 General Hospital

<b>State</b>	Lakemba, Oatley
<b>electorate:</b>	
<b>Federal</b>	Watson,Banks
<b>Division:</b>	



Robert Levingston's house or humpy when it was used as a golf club house. It is not known whether or not the people in this photograph are members of the Levingston family. Photograph courtesy Ms E.M. Jones.

During late 1942 the US Army took over a 236 acre site located in the area between Canterbury Road, the East Hills Railway Line, Salt Pan Creek and Bonds Road. The largest military hospital in Australia was built on this site by the Australian Government under Reverse Lend-Lease for the 118th General Hospital.

Known as the 118 General Hospital it was planned as a hospital centre of five hospitals. 490 timber barracks-type buildings, each approximately 12 by 30 metres, were constructed. These buildings were known as huts, and housed a total of 4,250 beds and accommodated 1,250 patients and 3,500 staff. Black and white soldiers were segregated into separate huts.

The legend that the hospital was really

intended for Hervey Bay in Queensland, is just a legend. The hospital was formed by doctors and nurses from the John Hopkins University Hospital in Baltimore, Maryland. The hospital staff arrived in Sydney during June 1942 and ran a 400 bed hospital from August 1942, with a section at the Hydro Majestic Hotel at Medlow Bath.

On the 8th September 1943, Mrs Eleanor Roosevelt, wife of the US President, visited the 118 General Hospital. According to Brian Madden, local historian, the 1943 Canterbury Council Minute Books record that Council had a flag embroidered especially for her visit. It is reputed Mayor Stan Parry was the only civilian to attend a reception for Mrs Roosevelt.

During 1945 the US Army vacated the hospital and the site was taken over by the Royal Navy. A Royal Navy Hospital occupied many of the buildings in January 1945 and the Australian Army used other sections.

## Herne Bay Housing Settlement

After World War II the site passed to the NSW Housing Commission and the huts were used to ease the post-war housing shortage. Two or three families were housed in each hut and this led to social problems and the area of Herne Bay gained an unsavoury reputation. Agitation from business people and residents resulted in a campaign to change the name. A "Change of Name Competition" was held and during 1958 the suburb of Herne Bay became Riverwood.

Herne Bay was the largest of three defence forces camps taken over for post war housing, accommodating up to 3000 families. Families had to share laundry facilities (a copper and wringer, no washing machine), but had their own basic kitchen. Some units did not have their own bathroom, and these families had to use a shared ablution block. The units were not soundproof and had no ceilings, so they were very cold in winter and hot in summer. Herne Bay housing estate had



US Army 118 General Hospital, Riverwood, ca 1944. Photograph courtesy Lois Townsend.



Herne Bay housing settlement flat, Riverwood, ca 1958. Photograph courtesy Edna Kubilinskas.

"nearly 20 shops of various kinds, a police station, a post office, resident doctors, a state and Catholic school, a couple of churches, a community hall, and various community services such as a children's library, a kindergarten and child-minding centre, and its own welfare staff as well as visiting social workers."<sup>[1]</sup>

## Later Developments

During the 1950's the Housing Commission began demolishing the huts and building high and medium density housing complexes. New streets were built in the area and were named after United States presidents,

cities and states to commemorate the United States wartime presence in the area.

The schools in Riverwood include Hannan's Road Public, Peakhurst Public, Peakhurst West, Riverwood Public, St Joseph's Catholic, and Narwee High.

On September 11, 1971, the J. M. Hale Riverwood Branch Library was opened by the Mayor, Alderman J. M. Beaman. This library was designed and built mainly by Council staff on land given to Canterbury Council by the Housing Commission.

## Sources

Hernia Bay; Sydney's wartime hospitals at Riverwood / by Brian J. Madden. Canterbury and District Historical Society, 2001.

Brian Madden and Canterbury City Council.



Riverwood Branch Library, ca 1986

## References

- ↑ Postwar emergency housing in Sydney - the camps that never were / by Michael Hogan in Journal of the Royal Australian Historical Society, v. 97 part 1, June 2011, p.13.

V•T•E (http://www.canterburycommons.net/index.php?title=Local\_Government\_Areas&action=edit)

**Suburbs within the Canterbury (Local Government Area)**  
 Ashbury • Belfield • Belmore • Beverly Hills • Campsie • Canterbury • Clemton Park • Croydon Park •  
 Earlwood • Hurlstone Park • Kingsgrove • Lakemba • Narwee • Punchbowl • **Riverwood** • Roselands •  
 Wiley Park

Guide to Canterbury Commons

Retrieved from "http://www.canterburycommons.net/index.php?title=Riverwood\_NSW&oldid=11227"

Categories: Suburbs of Sydney | Suburbs

- This page was last modified on 23 May 2016, at 19:17.
- This page has been accessed 13,393 times.

**DRAFT**

# Appendix D

## NSW EPA Records

## Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the *Contaminated Land Management Act 1997* (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under *Government Information (Public Access) Act 2009*.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (<https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management>).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (<https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities>).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

## Frequently asked questions

### Why does my land appear on the list of notified sites?

Your land may appear on the list because:

- the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
- the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

**Does the list contain all contaminated sites in NSW?**

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

**How are notified contaminated sites managed by the EPA?**

There are different ways the EPA can manage notified contaminated sites. Options include:

- regulation under the CLM Act, POEO Act, or both
- notifying the relevant planning authority for management under the planning and development process
- managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

**What should I do if I am a potential buyer of a site that appears on the list?**

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

**Who can I contact if I need more information about a site?**

You can contact the Environment Line at any time by calling 131 555 or by emailing [info@environment.nsw.gov.au](mailto:info@environment.nsw.gov.au).

**List of NSW Contaminated Sites Notified to the EPA**

**Disclaimer**

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or <i>Protection of the Environment Operations Act 1997</i> .
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the <i>Contaminated Land Management Act 1997</i> , to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the <i>Contaminated Land Management Act 1997</i> is not required.

Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> . A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the <i>Protection of the Environment Operations Act 1997</i> (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the <i>Protection of the Environment Operations Act 1997</i> (POEO Act).

Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ABBOTSFORD	Former Gasworks	83 Wymston PARADE	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288351	151.1265979
ABBOTSFORD	Former Gasworks	82, 83, 84 Wymston Pde, & 37, 39, 43, 45 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288316	151.1267729
ABBOTSFORD	Former Gasworks	85 Wymston PARADE	Gasworks	Regulation under CLM Act not required	-33.8526214	151.1266277
ABBOTSFORD	Former Gasworks	80-81 Wymston Pde and 35 and 41 St Albans STREET	Gasworks	Regulation under CLM Act not required	-33.85306653	151.1268142
ABBOTSFORD	Former Gasworks	43 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85270604	151.126976
ABERDEEN	Former Transport Depot	87-89 St Andrew STREET	Other Industry	Regulation under CLM Act not required	-32.17160931	150.8972859
ALBION PARK	Caltex Albion Park Service Station	1 Calderwood ROAD	Service Station	Regulation under CLM Act not required	-34.57131362	150.7647971
ALBION PARK RAIL	Caltex Service Station	174 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.56134097	150.7953663
ALBION PARK RAIL	Caltex Service Station	31 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.55162786	150.7880626
ALBION PARK RAIL	Former Timber Storage Area	36 Rivulet CRESCENT	Other Industry	Regulation under CLM Act not required	-34.54872597	150.7899351
ALBURY	Mobil Depot, Railway Place Albury	1 Railway PLACE	Other Petroleum	Regulation under CLM Act not required	-36.08526805	146.9236999
ALBURY	Woolworths Petrol	515 Young STREET	Service Station	Regulation under CLM Act not required	-36.08073723	146.92351
ALBURY	Former Caltex Service Station	842 David STREET	Service Station	Regulation under CLM Act not required	-36.06398743	146.9252143
ALBURY	SRA Land, 514 to 526 Young Street	514 to 526 Young STREET	Other Petroleum	Regulation under CLM Act not required	-36.08084123	146.9241682
ALBURY	Former Gasworks and surrounding commercial land.	441 Kiewa STREET	Gasworks	Contamination currently regulated under CLM Act	-36.08416926	146.9137704
ALBURY	Coles Express Albury	465 Guinea STREET	Service Station	Regulation under CLM Act not required	-36.07513665	146.9213077

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ALBURY	Former Thales Australia site, Albury	161 Fallon STREET	Other Industry	Contamination formerly regulated under the CLM Act	-36.064966	146.9434831
ALBURY	Xpress Service Station	616-624 Young STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.0755262	146.9256466
ALBURY	Albury Plaza	Cnr Smollett Street and Townsend STREET	Other Industry	Regulation under CLM Act not required	-36.08112933	146.9135719
ALBURY	Mobil Albury Aviation Fuel Depot	Hangar 8 (Albury Airport), Ogden PLACE	Other Petroleum	Regulation under CLM Act not required	-36.07178139	146.9530165
ALBURY	SRA Land	448 and 452 Young STREET	Unclassified	Regulation under CLM Act not required	-36.08438605	146.9235454
ALBURY	Caltex Service Station	Dean Street, Corner Creek STREET	Service Station	Regulation under CLM Act not required	-36.07978937	146.9110825
ALEXANDRIA	Former Mobil Service Station	20 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.9075339	151.2014811
ALEXANDRIA	Caltex Alexandria Service Station	133 Wyndham St, cnr McEvoy STREET	Service Station	Regulation under CLM Act not required	-33.90220927	151.2000425
ALEXANDRIA	Former Cadbury Schweppes	49-59 O'Riordan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.91406619	151.195067
ALEXANDRIA	Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	10-20 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.89536227	151.1987818
ALEXANDRIA	Mascot Developments	494-504 Gardeners ROAD	Other Industry	Regulation under CLM Act not required	-33.9198218	151.191282
ALEXANDRIA	Alexandria GoGas	562 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.91577222	151.2000753
ALEXANDRIA	Australian Refined Alloys	202-212 Euston ROAD	Metal Industry	Regulation under CLM Act not required	-33.91505136	151.185872
ALEXANDRIA	Alexandria Canal Sediments	Off Huntley STREET	Other Industry	Contamination currently regulated under CLM Act	-33.92204213	151.1770009
ALEXANDRIA	Australia Post	10-24 Ralph STREET	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-33.91583041	151.197997
ALEXANDRIA	Perry Park	1B Maddox STREET	Landfill	Regulation under CLM Act not required	-33.90809949	151.1962945

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ALEXANDRIA	Alexandria Gardens	146-156 Wyndham Street & 146-156 Botany ROAD	Unclassified	Regulation under CLM Act not required	-33.89956961	151.1997377
ALEXANDRIA	Sydney Park	Sydney Park ROAD	Landfill	Contamination currently regulated under CLM Act	-33.91031048	151.1844672
ALEXANDRIA	Former Industrial Site (now Value Suites)	16 O'Riordan STREET	Other Industry	Regulation under CLM Act not required	-33.9069796	151.201902
ALEXANDRIA	205-275 Euston Road, Alexandria	205-275 Euston ROAD	Other Industry	Under assessment	-33.91508	151.185879
ALEXANDRIA	The Gentry Alexandria	31-41 William STREET	Unclassified	Regulation under CLM Act not required	-33.91258565	151.1981861
ALSTONVILLE	Caltex Service Station Alstonville	73 Main STREET	Service Station	Regulation under CLM Act not required	-28.84115994	153.4388699
AMBARVALE	Caltex Service Station	37 Woodhouse DRIVE	Service Station	Regulation under CLM Act not required	-34.08438034	150.8019168
ANNANDALE	7-Eleven (former Mobil) Annandale Service Station	198 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.88706434	151.1741135
ANNANDALE	Shell Coles Express Service Station	124-126 Johnston STREET	Service Station	Regulation under CLM Act not required	-33.89085651	151.1704805
APPIN	Elladale Creek Aqueduct Upper Canal	Macquariedale ROAD	Unclassified	Regulation under CLM Act not required	-34.18867067	150.7539597
APPIN	West Cliff Colliery	Wedderburn ROAD	Other Petroleum	Regulation under CLM Act not required	-34.21970612	150.8217522
ARDELETHAN	Landmark Fertiliser Storage Facility	18 & 24-26 Arah STREET	Chemical Industry	Regulation under CLM Act not required	-34.35696645	146.9007084
ARGENTON	NSW Mines Rescue Services - Argenton	533 Lake ROAD	Other Industry	Regulation under CLM Act not required	-32.93807208	151.6269664
ARMIDALE	Former Mobil Depot	132 Niagara STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.51115918	151.6490343
ARMIDALE	Caltex Service Station	146 Miller STREET	Service Station	Regulation under CLM Act not required	-30.51362759	151.6481123
ARMIDALE	RTA land adjoining Martin Street estate	Martin STREET	Other Industry	Contamination formerly regulated under the CLM Act	-30.5045	151.6433

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ARMIDALE	Shell Service Station	93 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51299824	151.6697557
ARMIDALE	Parklands near the former gasworks	Beardy Street and Allingham STREET	Gasworks	Regulation under CLM Act not required	-30.51013465	151.6652722
ARMIDALE	Gasworks and portion of Harris Park	Corner of Beardy Street and Allingham STREET	Gasworks	Contamination currently regulated under CLM Act	-30.51157374	151.6623009
ARMIDALE	Former Lot 3 Martin Street	89 Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50675009	151.6453558
ARMIDALE	Martin Street Estate	Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50559024	151.6431854
ARMIDALE	Caltex Armidale Girraween Service Station	6-8 Queen Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-30.50348872	151.6510748
ARMIDALE	Martin Street, Crown Land	Martin STREET	Other Industry	Contamination formerly regulated under the CLM Act	-30.50414076	151.6429516
ARMIDALE	Former Shell Depot	134 Niagara STREET	Other Petroleum	Regulation under CLM Act not required	-30.51180178	151.648634
ARMIDALE	Caltex Service Station	144 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51709925	151.6675802
ARMIDALE	Caltex North Hill Service Station	2-4 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.50320439	151.6727051
ARMIDALE	Mobil Armidale Service Station and Former Depot	10-12 McLennan STREET	Service Station	Regulation under CLM Act not required	-30.51107573	151.648242
ARMIDALE	Caltex Service Station	19/10541 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.53210764	151.6160492
ARMIDALE	Armidale Dumaresq Council Grafton Road Depot	15-25 Grafton ROAD	Other Petroleum	Regulation under CLM Act not required	-30.52058076	151.6815261
ARNCLIFFE	7-Eleven Arncliffe	28 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.93428397	151.1525438
ARNCLIFFE	Combined Projects Arncliffe	104-128 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.93783874	151.1494559
ARTARMON	7-Eleven (former Mobil) Artamon Service Station	477 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81053826	151.1774248

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ASHBY	Ashby Dry Dock	Via Clarence STREET	Other Industry	Contamination formerly regulated under the CLM Act	-29.44158377	153.1972304
ASHFIELD	Vehicle Workshop	445-449 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88826829	151.1167477
ASQUITH	BP Service Station	462 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.68982678	151.106156
ATTUNGA	Attunga Limestone Mine (Waste Oil Site)	Garthowen ROAD	Other Industry	Regulation under CLM Act not required	-30.92920627	150.8579435
AUBURN	DIC Australia	323 Chisholm ROAD	Other Industry	Regulation under CLM Act not required	-33.87228962	151.0157032
AUBURN	Former Ajax Chemical Factory	9 Short STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.83671601	151.0292071
AUBURN	Janyon	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84467826	151.020745
AUBURN	Maintrain Facility - Sydney Trains Auburn	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84410947	151.0242502
AUBURN	Department of Corrective Services land adjacent to the former Auburn Landfill	Jamieson STREET	Landfill	Contamination formerly regulated under the CLM Act	-33.82928257	151.0590653
AUBURN	Commercial Premises	11-13 Percy STREET	Other Industry	Under assessment	-33.850222	151.040962
AWABA	Awaba Colliery	Wilton ROAD	Other Industry	Regulation under CLM Act not required	-33.02098186	151.5383612
BALGOWLAH	BP Service Station	Cnr Sydney Road and Maretime STREET	Service Station	Regulation under CLM Act not required	-33.79546175	151.2559309
BALGOWLAH	Part of Manly Council Maintenance Depot	8-10 Roseberry STREET	Other Petroleum	Regulation under CLM Act not required	-33.78928907	151.2679557
BALGOWNIE	Fuel Power Plus	99 Balgownie ROAD	Service Station	Contamination currently regulated under POEO Act	-34.38925632	150.8808544
BALLINA	Former Mobil Service Station	37-41 Cherry STREET	Service Station	Regulation under CLM Act not required	-28.86952673	153.5624436
BALLINA	Ballina Shell	273 River STREET	Service Station	Regulation under CLM Act not required	-28.86809272	153.5552789

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BALLINA	Woolworths Petrol	Kerr STREET	Service Station	Regulation under CLM Act not required	-28.85824461	153.5605439
BALLINA	Ballina Mays Motors	River STREET	Other Petroleum	Regulation under CLM Act not required	-28.86935402	153.5585931
BAURANALD	Caltex Service Station	Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-34.66747746	143.5662034
BANKSIA	Woolworths Petrol Service Station Banksia	314 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.94567308	151.1416884
BANKSIA	Cooks Cove Development	Cooks Cove PARK	Landfill	Regulation under CLM Act not required	-33.94492759	151.1549947
BANKSMEADOW	Orica Botany Groundwater Project	16-20 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.95526361	151.2152005
BANKSMEADOW	Discovery Cove, Former Ampol Rail Terminal	1801 Botany ROAD	Other Petroleum	Regulation being finalised	-33.96162178	151.2184122
BANKSMEADOW	Caltex Terminal	1-3 Penrhyn ROAD	Other Petroleum	Contamination currently regulated under POEO Act	-33.96335328	151.2171062
BANKSMEADOW	Orica Botany (Pre-2003 Regulation)	Denison STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.9516159	151.2195804
BANKSMEADOW	Veolia Waste Transfer Terminal (former Keith Engineering site)	34-36 McPherson STREET	Other Industry	Regulation under CLM Act not required	-33.95811039	151.2195225
BANKSMEADOW	Orica Former Chlor Alkali Plant (same site as Orica Botany Groundwater Project)	Botany industrial Park, off Denison STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.95664283	151.221685
BANKSMEADOW	Former Pipeline	Corish CIRCLE	Other Petroleum	Regulation being finalised	-33.94705787	151.2209919
BANKSMEADOW	Pacific National Rail Siding	1 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.95757712	151.2204974
BANKSMEADOW	Former Mobil Banksmeadow Terminal	Coal Pier ROAD	Other Petroleum	Regulation under CLM Act not required	-33.95405624	151.2142048
BANKSMEADOW	Orica Car Park Waste Encapsulation	Corish CIRCLE	Landfill	Contamination formerly regulated under the POEO Act	-33.94703665	151.222083
BANKSTOWN	7-Eleven Service Station	689 Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.92749953	150.9804784

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BANORA POINT	Caltex Service Station	Corner Leisure Drive and Darlington DRIVE	Service Station	Regulation under CLM Act not required	-28.21390712	153.5417434
BARGO	Tahmoor Colliery	Remembrance DRIVE	Other Industry	Regulation under CLM Act not required	-34.25090795	150.5793631
BARMEDMAN	Caltex - Barmedman	Corner Watson Street and Star STREET	Other Petroleum	Regulation under CLM Act not required	-34.14351302	147.3824934
BARRACK HEIGHTS	Caltex Service Station	332-336 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.56489171	150.8597814
BASS HILL	Woolworths Caltex Bass Hill	852 Hume HIGHWAY	Service Station	Under assessment	-33.9008648	150.9991181
BATEAU BAY	Former landfill	The Entrance ROAD	Landfill	Contamination currently regulated under CLM Act	-33.3938305	151.4698046
BATEAU BAY	Woolworths Service Station Bateau Bay	9 Bay Village ROAD	Service Station	Regulation under CLM Act not required	-33.37316432	151.4737125
BATEHAVEN	Caltex Service Station	264 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.73255166	150.1997536
BATEHAVEN	Coles Express Service Station Batehaven	198 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.72671807	150.1944931
BATEMANS BAY	Caltex Service Station	87-89 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71940701	150.1762788
BATHURST	Shell Coles Express Service Station	(Cnr Stewart and Rocket Street) 298 Stewart STREET	Service Station	Regulation under CLM Act not required	-33.41910999	149.5677773
BATHURST	Former Shell Depot Bathurst	56 Bant STREET	Other Petroleum	Regulation under CLM Act not required	-33.43471575	149.5774595
BATHURST	Bathurst Rail Fabrication Centre	34 Alpha STREET	Other Industry	Regulation under CLM Act not required	-33.42805153	149.5829156
BATHURST	Bathurst - Former Caltex Depot	114 Howick STREET	Other Petroleum	Regulation under CLM Act not required	-33.42296963	149.5862574
BATHURST	Caltex Bathurst Service Station	53 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41689545	149.5848527
BATHURST	Former Police Station	Corner of William Street and Durham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.41592424	149.5842233

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BATHURST	Former Mobil Depot	1 Lambert STREET	Other Petroleum	Regulation under CLM Act not required	-33.4287534	149.5806344
BATHURST	Crago Mill site	Piper STREET	Other Industry	Regulation under CLM Act not required	-33.42777602	149.5809428
BATHURST	Former Mobil Depot	Lower Russell STREET	Other Petroleum	Regulation under CLM Act not required	-33.42497876	149.585128
BATHURST	Shell Coles Express Bathurst Service Station	59 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41639415	149.5843243
BATHURST	Former Gasworks	71 Russell STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.42420302	149.5864517
BATHURST	Former Devro Cattle Hide Processing Plant	46 Vale ROAD	Other Industry	Regulation under CLM Act not required	-33.43926137	149.5803563
BATLOW	Crown Reserves	Mill ROAD	Other Industry	Under assessment	-35.524483	148.150379
BAULKHAM HILLS	Caltex Baulkham Hills Service Station	117 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76139872	150.9750767
BAULKHAM HILLS	Caltex Service Station	130 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76180431	150.9746297
BAULKHAM HILLS	Shell Coles Express Service Station	363 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.7601819	150.9916224
BAULKHAM HILLS	IBM Baulkham Hills Data Centre	3 Brookholow AVENUE	Other Industry	Under assessment	-33.732526	150.96802
BEACON HILL	Caltex Service Station	176 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75381485	151.2602617
BEACON HILL	Former 7-Eleven Service Station, Beacon Hill	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
BEACONSFIELD	63-85 Victoria St, Beaconsfield	63-85 Victoria STREET	Other Industry	Regulation under CLM Act not required	-33.9102929	151.2016275
BEGA	Coles Express (former Caltex) Service Station	2-6 Swan (Corner Carp) STREET	Service Station	Regulation under CLM Act not required	-36.67388263	149.838163
BEGA	Former BP Service Station	100 - 102 Glipps STREET	Service Station	Regulation under CLM Act not required	-36.67563094	149.8433291

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BEGA	Former Bega Gasworks	19-29 Upper STREET	Gasworks	Under preliminary investigation order	-36.67710613	149.8480253
BEGA	Caltex Service Station	36-40 Lagoon STREET	Service Station	Regulation under CLM Act not required	-36.66832965	149.8289048
BEGA	Lands Adjoining the Former Bega Gasworks	Part of Upper, East, Gordon & Gloucester STREET	Gasworks	Under preliminary investigation order	-36.67704706	149.848425
BEGA	Spenco Site - owned by Bega Spotlight Property 2 Pty Ltd	53-65 Bega Street STREET	Other Industry	Regulation under CLM Act not required	-36.67135539	149.8450828
BELMONT	Coles Express Belmont Service Station	502 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.03317155	151.6605194
BELMONT	Former Ampol Service Station	467-469 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.0299728	151.6613301
BELMONT NORTH	Woolworths Service Station Belmont North	399 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02454211	151.6634893
BELMONT NORTH	Caltex Belmont North Service Station	406 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02476876	151.6623655
BELMONT NORTH	Belmont Bus Depot	2 Floraville ROAD	Other Petroleum	Regulation under CLM Act not required	-33.02476269	151.6606657
BELMORE	SRA Land	348 Burwood ROAD	Unclassified	Regulation under CLM Act not required	-33.91753611	151.0859487
BELMORE	7-Eleven Service Station	792-794 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92567992	151.0873469
BELROSE	Glenrose Shopping Centre	56-58 Glen STREET	Unclassified	Contamination currently regulated under CLM Act	-33.73917996	151.2101029
BELROSE	Woolworths Petrol	60 Glen STREET	Service Station	Regulation under CLM Act not required	-33.74009002	151.2091045
BELROSE	Caltex Service Station	157 Forest WAY	Service Station	Regulation under CLM Act not required	-33.7347675	151.2212004
BENNETTS GREEN	Former Windale Wastewater Treatment Works	8 Templar PLACE	Other Industry	Regulation under CLM Act not required	-33.00317523	151.6936636
BERESFIELD	BP Beresfield Truckstop	2 Kinta Drive, corner John Renshaw DRIVE	Service Station	Regulation under CLM Act not required	-32.81122768	151.6393427

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BERESFIELD	Former Koppers Timber Treatment Site	53 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79902937	151.6358846
BERKELEY VALE	Former Berkeley Vale Service Station	121-123 Lakedge AVENUE	Service Station	Regulation under CLM Act not required	-33.34899186	151.4423109
BERKSHIRE PARK	Shell Coles Express Berkshire Park	746 - 752 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.66508654	150.7990243
BEROWRA	Caltex Berowra Service Station	17-14 Berowra Waters ROAD	Service Station	Regulation under CLM Act not required	-33.6233827	151.1505554
BEROWRA	7-Eleven Berowra Service Station	965-969 Pacific (Cnr Waratah Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62673163	151.1479171
BEROWRA	Shell Coles Express Berowra	955 Pacific (Cnr Yallambee Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62818015	151.1475736
BEROWRA	42 Berowra Waters Road	42 Berowra Waters ROAD	Unclassified	Regulation under CLM Act not required	-33.6203823	151.1481246
BERRIGAN	Caltex Service Station Berrigan	155-165 Chanter STREET	Service Station	Regulation under CLM Act not required	-35.6557616	145.8015557
BERRY	Berry Service Centre - Shell Branded	88 Queen STREET	Service Station	Regulation under CLM Act not required	-34.77571634	150.6961713
BERRY	BP branded service station Berry (Formerly Shell)	75 Queen STREET	Service Station	Contamination currently regulated under POEO Act	-34.77500516	150.695167
BEXLEY	7-Eleven Bexley	474 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95160096	151.1252355
BEXLEY	7-Eleven (former Mobil) Service Station Bexley	613 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95539246	151.118447
BILAMBIL HEIGHTS	Former Banana Plantation Land	38 McAllisters ROAD	Other Industry	Regulation under CLM Act not required	-28.21218056	153.4778762
BILLINUDGEL	CSR Readymix	Mogo PLACE	Other Industry	Regulation under CLM Act not required	-28.50210255	153.5278161
BILLINUDGEL	Billinudgel General Store	2A Wilfred STREET	Service Station	Under assessment	-28.50435	153.52701
BLACKMANS FLAT	Mount Piper Extension Development Site	2847 Boulder ROAD	Other Industry	Regulation under CLM Act not required	-33.35619968	150.0279881

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BLACKMANS FLAT	Western Coal Services (former Lamberts Gully Mine)	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.36713827	150.0483236
BLACKTOWN	Former Caltex Service Station	131 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75866104	150.8962614
BLACKTOWN	Valspar Blacktown	4 Steel STREET	Chemical Industry	Regulation under CLM Act not required	-33.75425018	150.9127714
BLACKTOWN	Harpers Bush (Reserve 752)	Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.79119448	150.8967838
BLACKTOWN	7-Eleven Service Station	60 Walters ROAD	Service Station	Regulation under CLM Act not required	-33.77599783	150.8948926
BLAKEHURST	Woolworths Service Station Blakehurst	390 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.99019694	151.1135663
BLAKEHURST	The Bay Nursing Home	392 & 394 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.99030465	151.1140293
BLAXLAND	7-Eleven (former Mobil) Service Station	137 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74627	150.6137669
BOAMBEE	Lindsay Bros transport depot site	542 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.33106848	153.0802985
BOAMBEE	BP-branded (former Mobil) Boambee Service Station	601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.33544287	153.0817266
BOBS FARM	Bob's Farm	15 Fenningham Island ROAD	Other Industry	Regulation under CLM Act not required	-32.74867207	152.0316217
BOGGABILLA	Former Caltex Service Station	90 Simpson Street, corner Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-28.60654029	150.3571056
BOGGABILLA	Lowes (Former Mobil) Depot	Newell HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-28.61023985	150.3529156
BOMADERRY	Caltex Service Station	341 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.84561952	150.5946978
BOMADERRY	Caltex Service Station Bomaderry	246 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.83833824	150.5958799
BOMADERRY	Former Mobil Emoleum Depot	7 Vicia WAY	Other Petroleum	Regulation under CLM Act not required	-34.84454618	150.6139462

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOMADERRY	Former Shell Depot	44 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-34.85193621	150.6117038
BOMADERRY	SRA Land	Lot 2 Meroo STREET	Unclassified	Regulation under CLM Act not required	-34.85314813	150.6099573
BOMADERRY	Bomaderry Works Depot	10 McIntyre WAY	Other Petroleum	Regulation under CLM Act not required	-34.84576748	150.6131411
BOMADERRY	Commercial Land	370 Princes HIGHWAY	Other Industry	Contamination currently regulated under CLM Act	-34.84424073	150.5958149
BOMBALA	Caltex Service Station Bombala	159-161 Maybe STREET	Service Station	Regulation under CLM Act not required	-36.91234945	149.2374622
BOMBALA	Former Bright Street Timber Mill	Bright STREET	Other Industry	Regulation under CLM Act not required	-36.91547645	149.2302454
BOMBALA	Caltex Bombala Service Station	High Street corner Stephen STREET	Service Station	Regulation under CLM Act not required	-36.90447935	149.241292
BOMBALA	Prime Pine site	Sandy LANE	Other Industry	Regulation under CLM Act not required	-36.9315425	149.2110959
BOMEN	Caltex Terminal	34 Lewington STREET	Other Petroleum	Regulation under CLM Act not required	-35.0700202	147.4121955
BOMEN	Enrigi Power Storage Recycling	509 Byrnes ROAD	Other Industry	Under assessment	-35.059766	147.428932
BONDI	BP-branded Service Station	185 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.89432208	151.2647671
BONDI	Caltex Service Station Bondi	51 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.8936307	151.260001
BONDI JUNCTION	Waverley Bus Depot	1-15 Oxford STREET	Other Industry	Regulation under CLM Act not required	-33.89165341	151.2421246
BONNY HILLS	Bonny View Store	923 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.59075636	152.8392935
BONNYRIGG	Metro (Formerly United & AP SAVER) Service Station Bonnyrigg	709 Cabramatta (W) ROAD	Service Station	Regulation under CLM Act not required	-33.89297085	150.8925935
BONNYRIGG HEIGHTS	BP-Branded Service Station Bonnyrigg	451 North Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.89416327	150.8578378

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOOLAROO	Cardiff West Estate - Pasmenco Cockle Creek	Adjacent to PCC Smelter at 13A Main ROAD	Metal Industry	Regulation under CLM Act not required	-32.93950137	151.6349183
BOOLAROO	Cockle Creek and Cockle Bay Sediments	Off Creek Reserve ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.96078541	151.6141327
BOOLAROO	Pasmenco Cockle Creek Smelter	Lake ROAD	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.94434593	151.6307345
BOOLAROO	Inditec Pivot	13 Main STREET	Other Industry	Contamination formerly regulated under the CLM Act	-32.94803538	151.6302187
BOOLAROO	Bunnings Site - Pasmenco Cockle Creek	13a Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94364503	151.6252316
BOOLAROO	Part Lot 2 DP1127713 (proposed Lot G) - Pasmenco Cockle Creek Smelter site	13a Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94404392	151.6267695
BOOLAROO	Lot 600 DP1228699 (formerly Part Lot 2 DP1127713 & proposed 'Lot D') - Pasmenco Cockle Creek Smelter site	Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94440875	151.6264143
BOOROWA	Former Mobil Depot	14-16 Brial STREET	Other Petroleum	Regulation under CLM Act not required	-34.43673234	148.7300821
BOOROWA	Mobil Service Station	63-69 Marsden STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.44157331	148.7162391
BOTANY	Former Aerosols of Australia	1617 Botany ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9529386	151.2037468
BOTANY	Allnex	49-51 Stephen ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.952588	151.21101
BOTANY	Former Tannery	2 Daniel STREET	Other Industry	Regulation under CLM Act not required	-33.94126194	151.1991087
BOTANY	Botany, Underwood	14a Underwood AVENUE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.94508532	151.1947626
BOTANY	Roads and Maritime Service	5 - 9 Lord STREET	Other Industry	Regulation under CLM Act not required	-33.94100279	151.1968763
BOTANY	Former Industrial Site	28 Folkestone PARADE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.95187539	151.1960537
BOURKE	Caltex Service Station	82-86 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09500388	145.9414388

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOURKE	Former Shell Bourke Depot	94-106 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09548497	145.9436745
BOWENFELS	Bowenfels Field Support Centre	9-13 Coorwull ROAD	Other Petroleum	Regulation under CLM Act not required	-33.47514572	150.1323899
BOWRAL	Shell Coles Express Bowral Service Station	430 Bong Bong STREET	Service Station	Regulation under CLM Act not required	-34.4826596	150.417389
BOWRAL	Former Gasworks	Merrigang STREET	Gasworks	Contamination currently regulated under CLM Act	-34.4783957	150.4255053
BOX HILL	Former Waste Management Facility	25 Terry ROAD	Landfill	Regulation under CLM Act not required	-33.65559259	150.8977986
BOX HILL	Former Poultry Farm	27-33 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.6486563	150.8815467
BOX HILL	Former Poultry Farm	19-25 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.65038071	150.8813725
BRANXTON	Former Service Station Branxton	Part of 70 Maltland STREET	Service Station	Contamination currently regulated under CLM Act	-32.65631582	151.3516243
BRANXTON	Branxton Wastewater Treatment Works	2151 New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.66069944	151.3625572
BREWARRINA	Dowell's Fuel	39 Doyle STREET	Service Station	Regulation under CLM Act not required	-29.96152786	146.8612561
BRIGHTON-LE-SANDS	Shell Service Station Brighton Le Sands & adjacent land	2 General Holmes DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-33.9579214	151.1578665
BRIGHTON-LE-SANDS	Cook Park	General Holmes DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-33.9581072	151.1579572
BROADMEADOW	Former Industrial Site	16 Broadmeadow ROAD	Service Station	Regulation under CLM Act not required	-32.91444096	151.7300112
BROADMEADOW	Nineways Broadmeadow Coles Express SS	Corner Brunker Road and Lambton ROAD	Service Station	Regulation under CLM Act not required	-32.92511185	151.7364247
BROADMEADOW	2 Georgetown Road, Broadmeadow NSW 2252	2 Georgetown ROAD	Other Industry	Under assessment	-32.912319	151.732186
BROKEN HEAD	South Byron Sewage Treatment Works	Broken Head ROAD	Other Industry	Regulation under CLM Act not required	-28.67233626	153.6148974

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROKEN HILL	Former Caltex Depot	3 Kanandah ROAD	Service Station	Regulation under CLM Act not required	-31.98341823	141.4332211
BROKEN HILL	Former Caltex Service Station	167-173 Argent STREET	Service Station	Regulation under CLM Act not required	-31.96066663	141.4624175
BROKEN HILL	Caltex Service Station	535 Argent STREET	Service Station	Regulation under CLM Act not required	-31.95311924	141.4745274
BROKEN HILL	Tasco Petroleum (Former Mobil) Depot	5 Kanandah ROAD	Other Petroleum	Regulation under CLM Act not required	-31.9843986	141.4329127
BROKEN HILL	Former Mobil Aviation Refuelling Facility, Broken Hill Airport	Airport ROAD	Other Petroleum	Regulation under CLM Act not required	-31.99928312	141.4685759
BROKEN HILL	Caltex Service Station	73-87 Oxide STREET	Service Station	Contamination formerly regulated under the CLM Act	-31.95519591	141.4658647
BROKEN HILL	Former Mobil Depot	Corner Of Talc Street and Gossan STREET	Other Petroleum	Regulation under CLM Act not required	-31.96018102	141.4514732
BROKEN HILL	Former Gasworks	Cornish STREET	Gasworks	Contamination formerly regulated under the CLM Act	-31.96330562	141.4470611
BROOKLYN	Former Oyster Farm	139 Brooklyn (Off Government) ROAD	Unclassified	Regulation under CLM Act not required	-33.54716867	151.2229744
BROOKVALE	Coles Express Service Station Brookvale	198 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.76332299	151.2794028
BROOKVALE	Woolworths Petrol Brookvale	756 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76170587	151.2762411
BROOKVALE	Caltex Service Station Brookvale	740-742 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76146721	151.2745358
BROOKVALE	Harrison Manufacturing	75 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76497282	151.2637961
BROOKVALE	Brookvale Bus Depot	630-636 Pittwater ROAD	Other Petroleum	Regulation under CLM Act not required	-33.76641698	151.2705639
BROOKVALE	Warringah Mall	Cnr Condamine Street, Old Pittwater Rd & Cross STREET	Other Industry	Regulation under CLM Act not required	-33.76729923	151.2657272
BROOKVALE	Littles Dry Cleaning	123 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76759121	151.2625932

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROOMS HEAD	Former Brooms Head General Store and Service Station	92 Ocean ROAD	Service Station	Regulation under CLM Act not required	-29.60711599	153.3346312
BROWNSVILLE	Caltex Service Station	342 Kanahooka ROAD	Service Station	Regulation under CLM Act not required	-34.48591734	150.8064373
BRUNSWICK HEADS	Caltex Service Station	5 Tweed STREET	Service Station	Regulation under CLM Act not required	-28.5381619	153.5487135
BUDGEWOI	Colongra Power Station	Off Scenic DRIVE	Other Industry	Under assessment	-33.21463137	151.5529338
BULAHDELAH	Caltex Service Station	8 Red Gum Road, Corner Mahogany STREET	Service Station	Regulation under CLM Act not required	-32.39837094	152.2106015
BULAHDELAH	Former Caltex Service Station	53-59 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40721638	152.2110291
BULAHDELAH	BP-branded (former Mobil) Service Station	73-75 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40971018	152.2105785
BULLABURRA	Former Burmah Bullaburra Service Station	367 - 369 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72482995	150.4124537
BULLI	Scrap Yard	7 Molloy STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.33663195	150.9131154
BULLI	Bulli Brickworks	Quilkey PLACE	Other Industry	Regulation under CLM Act not required	-34.33263113	150.9086247
BUNGALORA	Former landfill area	Part of 840 Terranora ROAD	Other Industry	Regulation under CLM Act not required	-28.2424318	153.4789209
BUNGENDORE	Former Timber Treatment Plant	Corner King Street and Butmaroo STREET	Other Industry	Contamination formerly regulated under the CLM Act	-35.26151273	149.4434907
BURONGA	Caltex Service Station	Sturt Hwy Cnr Silver City HIGHWAY	Service Station	Regulation under CLM Act not required	-34.17056496	142.1813847
BURWOOD	Burwood STA Depot	Cnr Shaftesbury and Parramatta ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.86982934	151.1089057
BYRON BAY	Residential Development	Lot 15 Seaview STREET	Unclassified	Regulation under CLM Act not required	-28.65214464	153.6165573
BYRON BAY	Butler Street Reserve Byron Bay	Butler STREET	Landfill	Under assessment	-28.64340617	153.6099674

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CABARITA	Dulux (Orica Australia)	Cabarita ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.84643972	151.1157115
CABARITA	Wellcome Soil Containment Cells Cabarita	47 and 48 Phillips STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85250251	151.1176366
CABRAMATTA	Caltex (former Mobil) Lansvale Service Station	143 Hume HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.89442261	150.9571507
CABRAMATTA	Caltex Service Station Cabramatta	168 John STREET	Service Station	Regulation under CLM Act not required	-33.89427314	150.9279279
CABRAMATTA	Cabramatta Creek	17 A and 19A Liverpool Street STREET	Unclassified	Regulation under CLM Act not required	-33.90284952	150.9415616
CABRAMATTA WEST	BP Lansvale	115-119 Hume HIGHWAY	Service Station	Under assessment	-33.894709	150.960511
CABRAMURRA	Selwyn Snowfields / Selwyn Snow Resort	213A Kings Cross ROAD	Other Industry	Under assessment	-35.90578	148.4501785
CALGA	Former service station	101 Peats Ridge ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.37597138	151.2254951
CALLALA BEACH	Callala Beach General Store	(formerly 1 Quay Rd) 114A Quay ROAD	Service Station	Regulation under CLM Act not required	-35.0101817	150.6964322
CAMBRIDGE GARDENS	Caltex Cambridge Park	1 Boomerang PLACE	Service Station	Regulation under CLM Act not required	-33.74068794	150.717174
CAMDEN	Camden High School (former)	John STREET	Gasworks	Regulation under CLM Act not required	-34.05114079	150.6951285
CAMDEN	Caltex Camden Service Station	21 Barsden STREET	Service Station	Regulation under CLM Act not required	-34.05808413	150.6914744
CAMDEN SOUTH	Coles Express Service Station Camden South	273 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08660995	150.6945444
CAMELLIA	Hymix Concrete	14 Grand AVENUE	Metal Industry	Contamination currently regulated under CLM Act	-33.82243454	151.044789
CAMELLIA	Mauri Foods	15 Grand AVENUE	Other Industry	Regulation being finalised	-33.81996985	151.0335725
CAMELLIA	James Hardie Factory (former, eastern portion)	1 Grand AVENUE	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8182384	151.0261019

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMELLIA	Bitumen Manufacturer	12 Grand AVENUE	Other Industry	Contamination currently regulated under CLM Act	-33.82189695	151.0429251
CAMELLIA	Hambear	14 Thackeray STREET	Metal Industry	Regulation under CLM Act not required	-33.81920482	151.0419394
CAMELLIA	Former Asciano Properties	39 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.82056014	151.043331
CAMELLIA	Railway Land	27 Grand AVENUE	Other Industry	Regulation under CLM Act not required	-33.81910822	151.0382483
CAMELLIA	Wrigg	13 Grand AVENUE	Metal Industry	Under preliminary investigation order	-33.81971361	151.0321525
CAMELLIA	Former Akzo Nobel site	6 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.82238826	151.0319264
CAMELLIA	Former Shell Clyde Refinery	Durham STREET	Other Industry	Contamination currently regulated under POEO Act	-33.82804924	151.0378966
CAMELLIA	Council Reserve	118 Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81850502	151.0302425
CAMELLIA	Veolia	37 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.81980027	151.0430689
CAMELLIA	Sydney Water	41 Grand AVENUE	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8217493	151.0453367
CAMELLIA	Maritime Services Board	33A Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81836086	151.0401249
CAMMERAY	Tunks Park	Brothers AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.81734704	151.2113338
CAMMERAY	Coles Express Cammeray	477-483 Miller STREET	Service Station	Regulation under CLM Act not required	-33.82141124	151.2108658
CAMPBELLTOWN	Mobil Service Station	96-98 Queen STREET	Service Station	Regulation under CLM Act not required	-34.06407588	150.8170082
CAMPBELLTOWN	BP Macarthur Service Station	Cnr Blaxland ROAD and Campbelltown ROAD	Service Station	Regulation under CLM Act not required	-34.05312872	150.8234349
CAMPBELLTOWN	Former vehicle wrecking yard	38 Blaxland ROAD	Other Industry	Regulation under CLM Act not required	-34.0605735	150.8130598

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMPERDOWN	Former Gee Graphics	27 Church STREET	Other Industry	Regulation under CLM Act not required	-33.88737747	151.1773616
CAMPERDOWN	O'Dea Reserve	Salisbury LANE	Landfill	Contamination formerly regulated under the CLM Act	-33.89072786	151.1736948
CAMPERDOWN	The Spruce	12-14 Marsden STREET	Other Industry	Regulation under CLM Act not required	-33.88720632	151.1784514
CAMPSIE	Budget Petroleum and adjacent property	403 Canterbury Road and 1 Una STREET	Service Station	Contamination currently regulated under CLM Act	-33.91605617	151.1086596
CAMPSIE	Former Sunbeam factory	60 Charlotte STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.92254225	151.1025796
CANLEY HEIGHTS	Former Caltex Canley Heights	368 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88271081	150.9154176
CANLEY HEIGHTS	Caltex Canley Heights Service Station	280-286 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88393501	150.9241636
CANLEY VALE	Coles Express Lansvale	99 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89295753	150.9606136
CANLEY VALE	Former Mobil Service Station	96 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88591573	150.9369801
CANOWINDRA	BP-branded Jasbe Service Station	76 Rodd STREET	Service Station	Regulation under CLM Act not required	-33.56131773	148.6682805
CANTERBURY	Metro Petroleum Service Station	13-19 Canterbury ROAD	Service Station	Contamination currently regulated under CLM Act	-33.90783455	151.125207
CAPTAINS FLAT	Rail corridor adjacent to Lake George Mine	Miners ROAD	Other Industry	Under assessment	-35.590664	149.438515
CARDIFF	7-Eleven Service Station	399 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93391137	151.6562111
CARDIFF	Former Caltex Service Station	367 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93761223	151.6577781
CARDIFF	Maneela Oval	Main ROAD	Other Industry	Regulation under CLM Act not required	-32.93018443	151.6435559
CARDIFF	Former Mobil Depot	7 Ranton STREET	Other Petroleum	Regulation under CLM Act not required	-32.94516764	151.6470387

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARDIFF	BP Service Station (Reliance Petroleum)	Corner Sturt and Main ROADS	Service Station	Regulation under CLM Act not required	-32.93792229	151.6569905
CARDIFF	Woolworths (former Mobil) Cardiff Service Station	43 Macquarie ROAD	Service Station	Regulation under CLM Act not required	-32.94118246	151.6578195
CARINGBAH	Adjacent to Spirent Australia	101-109 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03360747	151.1245577
CARINGBAH	Former Consumer Health Products Manufacturer	37-40 Cawarra ROAD	Other Industry	Regulation under CLM Act not required	-34.03024369	151.1277755
CARINGBAH	Caltex Lilli Pilli Service Station	477-481 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.05243807	151.1216353
CARINGBAH	7-Eleven Service Station	367 The KINGSWAY	Service Station	Regulation under CLM Act not required	-34.03948677	151.1203268
CARINGBAH	Spirent Australia	105 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03425343	151.1245092
CARINGBAH	BP Service Station Carlingbah	54 Captain Cook DRIVE	Service Station	Regulation under CLM Act not required	-34.037986	151.1250656
CARLINGFORD	Caltex Service Station Carlingford	131 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.78762398	151.0279422
CARLINGFORD	Caltex Service Station	797 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.7757819	151.0516532
CARLTON	Shell Coles Express Service Station	277 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.9748579	151.1272732
CARRINGTON	Commercial Metals Company (CMC) Australia Pty Ltd	117-121 Bourke STREET	Other Industry	Regulation under CLM Act not required	-32.9148832	151.7677193
CARRINGTON	Carrington redevelopment site	11 Howden STREET	Other Industry	Regulation under CLM Act not required	-32.91309509	151.7625341
CARRINGTON	Forgacs Dockyard	81 Denison STREET	Other Industry	Regulation under CLM Act not required	-32.9207441	151.764816
CARRINGTON	NAT vacant land	Bourke STREET	Unclassified	Regulation under CLM Act not required	-32.91276029	151.7685894
CARRINGTON	Dyke Point Containment Cell	Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91763422	151.7727101

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARRINGTON	Carrington Coal Tar Pavements	Bourke Street to Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91441348	151.770271
CARRINGTON	Pasminco Ship Loader	Dyke Berth 2 (off Bourke Street) OTHER	Metal Industry	Regulation under CLM Act not required	-32.9148698	151.7716837
CARSS PARK	Vacant Property	334 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.98628486	151.1133908
CARSS PARK	Kogarah War Memorial Pool	78 Carwar AVENUE	Other Industry	Under assessment	-33.989427	151.120525
CARWELL	Cement Australia Carwell Creek Quarries	Quarry ROAD	Other Industry	Regulation under CLM Act not required	-32.85570277	149.9170908
CASINO	Caltex Service Station and Depot Casino	28 & 32 Dyraba STREET	Service Station	Regulation under CLM Act not required	-28.85488567	153.044806
CASINO	Caltex Service Station	96 Centre STREET	Service Station	Regulation under CLM Act not required	-28.86339567	153.0450634
CASINO	Former Gasworks	134-136 North STREET	Gasworks	Regulation under CLM Act not required	-28.86080712	153.0526043
CASINO	Woolworths Service Station Casino	130 Canterbury STREET	Service Station	Regulation under CLM Act not required	-28.86231341	153.0464642
CASINO	18 Beith Street, Casino	18 Beith STREET	Unclassified	Regulation under CLM Act not required	-28.84951426	153.0466585
CASINO	Corner Store	30 Barker STREET	Service Station	Regulation under CLM Act not required	-28.86316792	153.0389124
CASINO	Casino Roadhouse	86 Johnston STREET	Service Station	Contamination currently regulated under CLM Act	-28.85960698	153.0562429
CASULA	Caltex Casula Service Station	646 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.95641262	150.8934783
CATHERINE HILL BAY	Catherine Hill Bay Coal Handling and Preparation Plant	1A Keene STREET	Other Industry	Regulation under CLM Act not required	-33.16120556	151.6302456
CESSNOCK	Caltex Cessnock Service Station	103-105 Wollombi (Cnr James Street) ROAD	Service Station	Regulation under CLM Act not required	-32.83936243	151.3430078
CESSNOCK	Former Mobil Service Station	102 Wollombi ROAD	Service Station	Regulation under CLM Act not required	-32.83844074	151.3436022

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CESSNOCK	Former Service Station	2-4 Allandale ROAD	Service Station	Regulation under CLM Act not required	-32.83118911	151.3560677
CHARBON	Charbon Colliery	Charbon ROAD	Other Industry	Regulation under CLM Act not required	-32.92390131	149.9839098
CHARLESTOWN	7-Eleven Charlestown	273 Charlestown ROAD	Service Station	Regulation under CLM Act not required	-32.95802555	151.6897931
CHARLESTOWN	Caltex Service Station	81 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-32.96715274	151.6955462
CHARLESTOWN	Caltex Woolworths (Former BP)	91-93 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-32.96631255	151.6959086
CHARLESTOWN	Ausgrid Powell Street Depot	8 Powell STREET	Other Industry	Regulation under CLM Act not required	-32.95912375	151.6944136
CHARMHAVEN	Caltex Charmhaven Service Station	13-15 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.21655768	151.5091452
CHATSWOOD	Former Caltex Chatswood Service Station	607 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.80396472	151.1795766
CHATSWOOD	Woolworths Chatswood	364-366 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78667419	151.2010828
CHATSWOOD	Caltex Service Station Chatswood	572 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80381271	151.1789636
CHATSWOOD	Auto Repairs	2 Devonshire STREET	Service Station	Regulation under CLM Act not required	-33.8015482	151.1859632
CHATSWOOD	Coles Express Service Station Chatswood	877-879 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.79182176	151.1804867
CHATSWOOD	Chatswood Toyota	728 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.79654247	151.1776136
CHERRYBROOK	Caltex Service Station	67 Shepherds DRIVE	Service Station	Regulation under CLM Act not required	-33.72069183	151.0451415
CHESTER HILL	Former Orica, Chester Hill	127 Orchard ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8869823	150.9952873
CHIPPENDALE	Fraser's Development	Wellington STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.88668912	151.2015246

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CHIPPING NORTON	Former Solchem (Mobil) Depot Chipping Norton	49-51 Riverside ROAD	Other Petroleum	Regulation under CLM Act not required	-33.91621314	150.9696948
CHIPPING NORTON	Former ACR	85-107 Alfred STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.92226795	150.9586496
CHISWICK	Former Sydney Wiremills (BHP) site	Blackwall Point ROAD	Other Industry	Regulation under CLM Act not required	-33.85131849	151.1369131
CHITTAWAY BAY	Former Caltex Chittaway Point	100 Chittaway ROAD	Service Station	Regulation under CLM Act not required	-33.32707555	151.4293546
CHULLORA	Chullora Railway Workshops	Worth STREET	Other Industry	Regulation under CLM Act not required	-33.88639388	151.0598201
CLARENCE	Clarence Colliery	Chifley ROAD	Other Industry	Regulation under CLM Act not required	-33.46450217	150.2522729
CLARENDON	Coles Express Clarendon Service Station	244 Hawkesbury Valley WAY	Service Station	Regulation under CLM Act not required	-33.6083729	150.7890936
CLEARFIELD	Former Pamplings Dip Site	Off Clearfield ROAD	Cattle Dip	Regulation under CLM Act not required	-29.16287185	152.882974
CLYBUCCA	BP Service Station	2171 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.93845014	152.9422791
CLYDE	7-Eleven Clyde	3 Parramatta Road, corner Harbord STREET	Service Station	Regulation under CLM Act not required	-33.83494433	151.0222628
CLYDE	4 Tennyson Street, Clyde NSW 2142	4 Tennyson STREET	Other Industry	Under assessment	-33.83268843	151.0267361
COBAR	Former Caltex (Bogas) Service Station Cobar	56-58 Marshall STREET	Service Station	Regulation under CLM Act not required	-31.49793339	145.8346684
COBAR	Mckinnons Gold Mine	Cobar ROAD	Metal Industry	Regulation under CLM Act not required	-31.78179755	145.693
COBAR	Caltex Service Station Cobar	99 Marshall (formerly Cnr Barrier Highway and Bathurst Street) STREET	Service Station	Regulation under CLM Act not required	-31.49631924	145.8275727
COBAR	Caltex Service Station	Lot 10 Railway PARADE	Service Station	Regulation under CLM Act not required	-31.49350124	145.8442372
COFFS HARBOUR	BP Service Station	134-136 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-30.29187037	153.1182106

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COFFS HARBOUR	Dan Murphy's Coffs Harbour	10 Elbow STREET	Service Station	Regulation under CLM Act not required	-30.29439262	153.115069
COFFS HARBOUR	Mobil Service Station	314-316 Harbour DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-30.3056983	153.131966
COFFS HARBOUR	Mobil Coffs Harbour Airport	Aviation DRIVE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.313385	153.1175018
COFFS HARBOUR	Woolworths Petrol	Park Beach Plaza, Arthur STREET	Service Station	Regulation under CLM Act not required	-30.28101154	153.132027
COFFS HARBOUR	Caltex Service Station	157 Orlando STREET	Service Station	Regulation under CLM Act not required	-30.28975334	153.1306354
COFFS HARBOUR	Coffs Harbour Slipway	38 Marina DRIVE	Other Industry	Regulation under CLM Act not required	-30.30325637	153.1441437
COFFS HARBOUR	Aussitel Backpackers Hostel	312 Harbour DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-30.30585731	153.131645
COLEAMBALLY	Former Mobil Coleambally Depot	19 Bencubbin AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.80279552	145.8945239
COLLARENEBRI	Former Shell Depot	Corner Narran Street and Queen STREET	Other Petroleum	Regulation under CLM Act not required	-29.54114772	148.5789365
COLONGRA	Munmorah Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLONGRA	Endeavour Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLYTON	Coles Express (former Ampol) Service Station	85-88 Great Western HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.77552363	150.7953105
CONCORD	Caltex Service Station	89 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.86785624	151.0993769
CONCORD WEST	Caltex Service Station - 369 -375 Concord Road, Concord West	369-375 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.84113835	151.0888843
CONDOBOLIN	BP-Branded Service Station	38 Denison Street, corner Molong STREET	Service Station	Regulation under CLM Act not required	-33.08520378	147.1524976
CONDOBOLIN	Former Mobil Depot	6 Burnett STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.08010515	147.1642972

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CONDOBOLIN	Former Ampol Depot	Cnr Parkes Road and Goobang STREET	Service Station	Regulation under CLM Act not required	-33.08034753	147.1642436
CONDOBOLIN	Former Caltex Depot	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.08255593	147.1585922
CONDOBOLIN	Mobil Condobolin Depot Railway Siding	Railway Siding behind 6 Burnett STREET	Other Petroleum	Regulation under CLM Act not required	-33.08058612	147.164225
CONSTITUTION HILL	Sydney Water Land	Caloola ROAD	Unclassified	Regulation under CLM Act not required	-33.79781738	150.9697436
COOGEE	Caltex Coogee Service Station	146-148 Coogee Bay Road, corner Mount STREET	Service Station	Regulation under CLM Act not required	-33.91989232	151.2517454
COOKS HILL	Former Council Depot Cooks Hill	152 Bruce Street and 115 Corlette STREET	Other Industry	Regulation under CLM Act not required	-32.93525537	151.7641074
COOLAC	Coolac Service Station	Corner Hume Highway and Coleman STREET	Service Station	Regulation under CLM Act not required	-34.95435052	148.1595525
COOLAH	BP Depot (Reliance Petroleum)	72 (formerly 17-23) Cunningham STREET	Other Petroleum	Regulation under CLM Act not required	-31.82275896	149.7243171
COOLONGLOOK	Caltex Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.21648325	152.322813
COOMA	Caltex Cooma Service Station	44 Sharp Street, corner Baron STREET	Service Station	Regulation under CLM Act not required	-36.23323489	149.1304134
COOMA	Former Mobil Cooma Depot	2 Commissioner STREET	Other Petroleum	Regulation under CLM Act not required	-36.23266081	149.1346674
COOMA	Former Caltex Cooma Depot	2 Short STREET	Service Station	Regulation under CLM Act not required	-36.2338672	149.1348862
COOMA	Lowes Petroleum Cooma Depot and Service Station (Former BP Reliance Petroleum)	2-4 Sharp STREET	Other Petroleum	Regulation under CLM Act not required	-36.22819468	149.1357696
COOMA	Woolworths Caltex Cooma Service Station	Bombala Street Cnr Massie STREET	Service Station	Regulation under CLM Act not required	-36.23364626	149.1267469
COOMA	Former Shell Depot	48-50 Bradley STREET	Other Petroleum	Regulation under CLM Act not required	-36.23448955	149.1347987
COOMA	Former Shell Service Station	48-52 Sharp STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.23350402	149.1299514

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COONABARABRAN	Former Mobil Depot	49 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27096226	149.2818461
COONABARABRAN	Shell Coles Express Service Station	2-6 John STREET	Service Station	Regulation under CLM Act not required	-31.27706775	149.27836
COONABARABRAN	Former Shell Coonabarabran CVRO	Corner Cowper St and Dawson St, formerly 51 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27003745	149.281788
COONABARABRAN	Caltex Service Station	Cnr Dawson & Drummond STREET	Service Station	Regulation under CLM Act not required	-31.26994941	149.28183
COONABARABRAN	Caltex Service Station	85-87 John STREET	Service Station	Regulation under CLM Act not required	-31.27231215	149.2771297
COONAMBLE	Former Shell Coonamble Depot	Corner Aberford Street and Quambone ROAD	Other Petroleum	Regulation under CLM Act not required	-30.95349182	148.3793432
COONAMBLE	Caltex Service Station	Quambone ROAD	Service Station	Regulation under CLM Act not required	-30.95410067	148.3792167
COORANBONG	Former Poultry Farm - 91 Alton Road, Cooranbong	64 - 98 Alton ROAD	Unclassified	Regulation under CLM Act not required	-33.06860138	151.4512156
COORANBONG	Avondale Auto Centre	679 Freemans DRIVE	Service Station	Regulation under CLM Act not required	-33.06968809	151.4636293
COOTAMUNDRA	Former BP Depot	1-5 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.62915841	148.0306962
COOTAMUNDRA	Caltex Service Station	26-34 Hovell STREET	Service Station	Regulation under CLM Act not required	-34.63624703	148.0347479
COOTAMUNDRA	Former Caltex Depot	219 Sutton STREET	Other Petroleum	Regulation under CLM Act not required	-34.65126548	148.0145283
COOTAMUNDRA	Former Ampol Service Station	72 Parker STREET	Service Station	Regulation under CLM Act not required	-34.63471008	148.0296112
COOTAMUNDRA	Cootamundra Gasworks	140-146 Hovell STREET	Gasworks	Contamination currently regulated under CLM Act	-34.64572841	148.0255049
COOTAMUNDRA	Former Amoco Depot	68-72 Hovell STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.63871124	148.0321134
COOTAMUNDRA	Former Ampol Cootamundra Rail Siding	Back Brawlin ROAD	Other Petroleum	Regulation under CLM Act not required	-34.65326425	148.0143068

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CORAMBA	Martin Street	End of Martin Street and adjacent car park OTHER	Service Station	Ongoing maintenance required to manage residual contamination (CLM Act)	-30.22125208	153.0156997
CORNWALLIS	532 Cornwallis Road, Cornwallis	532 Cornwallis ROAD	Other Industry	Regulation under CLM Act not required	-33.57473895	150.7792839
COROWA	Corowa Shire Council Works Depot	24 Poseidon ROAD	Other Petroleum	Regulation under CLM Act not required	-35.98807923	146.3652266
COROWA	Former Ampol Corowa	10 Bow STREET	Service Station	Regulation under CLM Act not required	-35.99364786	146.3901259
COROWA	Signall Corowa	280 Hume STREET	Service Station	Under preliminary investigation order	-36.00996015	146.3760437
CORRIMAL	Woolworths Petrol - Corrimal	275 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.37527426	150.8962637
CORRIMAL	7-Eleven Corrimal	138-146 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.36986818	150.8978241
COWRA	Landmark Fertiliser Storage Facility	Corner Young Road & Waratah STREET	Chemical Industry	Regulation under CLM Act not required	-33.84321832	148.6722578
COWRA	Lowes Petroleum (former BP Cowra Depot)	12 Campbell STREET	Other Petroleum	Regulation under CLM Act not required	-33.83803706	148.6977873
COWRA	Former Gasworks	30 Brougham STREET	Gasworks	Contamination currently regulated under CLM Act	-33.8389659	148.6963482
COWRA	Shell Depot	34 Brougham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.83913341	148.6973491
CRANGAN BAY	Big T Roadhouse	555 and 565 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.17306517	151.6084446
CREMORNE	Shell Coles Express Service Station	225 Military ROAD	Service Station	Regulation under CLM Act not required	-33.83063306	151.226223
CRESTWOOD	Former Caltex Depot Queanbeyan	36 Kendall (Cnr Stephens Rd) AVENUE	Other Petroleum	Regulation under CLM Act not required	-35.34615546	149.207807
CRESTWOOD	Former BP Queanbeyan	64 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34646177	149.2246263
CRONULLA	Breen Holdings	Bate Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.03861737	151.1614114

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CROWS NEST	Caltex Service Station	111-121 Falcon STREET	Service Station	Regulation under CLM Act not required	-33.82868236	151.2060317
CROYDON	Caltex Service Station	404-410 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88853994	151.115879
CROYDON	BP Ashfield	584 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.87399409	151.1267296
CROYDON PARK	Mobil Service Station	334 Georges River ROAD	Service Station	Regulation under CLM Act not required	-33.89771626	151.0999194
CULCAIRN	Caltex Service Station	2883 Olympic HIGHWAY	Service Station	Regulation under CLM Act not required	-35.67441635	147.0356845
CULLEN BULLEN	Baal Bone Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.27193875	150.0587194
CUNDLETON	Caltex Service Station (1 Manning River Drive)	Old Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-31.89329598	152.5068225
CURL CURL	John Fisher Park	Corner Harbord and Abbott ROADS	Landfill	Regulation under CLM Act not required	-33.76627613	151.2860705
DACEYVILLE	Astrolabe Park	Cook AVENUE	Landfill	Regulation under CLM Act not required	-33.92963704	151.221773
DAPTO	RailCorp Dapto	(Rear of property) 12-14 Hamilton STREET	Other Industry	Regulation under CLM Act not required	-34.50045405	150.787353
DAPTO	Nicheinvest Pty Ltd (Former service station)	133-139 Lakelands DRIVE	Service Station	Regulation under CLM Act not required	-34.503254	150.803211
DARLINGHURST	Proposed Retail Unit	139-155 Palmer STREET	Unclassified	Regulation under CLM Act not required	-33.87504688	151.2168106
DARLINGHURST	Cross City Tunnel	Riley Street and William STREET	Service Station	Contamination was addressed via the planning process (EP&A Act)	-33.87424636	151.2158305
DARLINGHURST	18-28 Neild Avenue, Darlinghurst	18-28 Neild AVENUE	Landfill	Regulation under CLM Act not required	-33.87876581	151.2276546
DEE WHY	United Dee Why	148 Pacific Parade STREET	Service Station	Contamination currently regulated under POEO Act	-33.75560536	151.295963
DEE WHY	United Dee Why Pittwater	625 Pittwater (Cnr Mooramba Road) ROAD	Service Station	Under assessment	-33.7549455	151.2828442

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DEE WHY	Caltex Service Station	793-797 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.74566596	151.2920719
DEE WHY	Dee Why Town Centre	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.753169	151.2875805
DEE WHY	Roche Products Dee Why Facility	Inman ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73893118	151.2870389
DENHAM COURT	Denham Court Caravan Park and Service Station	505 Campbelltown ROAD	Service Station	Contamination currently regulated under CLM Act	-33.98208395	150.8459471
DENILQUIN	Shell Coles Express Service Station	336 Victoria STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.52373613	144.9807345
DENILQUIN	Former Denilquin Gasworks	365, 369 and 329-331 George and 380 and 386 Charlotte STREET	Gasworks	Under assessment	-35.52670898	144.9634986
DENILQUIN	Landmark Fertiliser Storage Facility	99-101 Davidson STREET	Chemical Industry	Regulation under CLM Act not required	-35.52534735	144.975142
DENILQUIN	Former Denilquin Caltex Depot	116-118 Hardinge (Cnr Wood St) STREET	Service Station	Regulation under CLM Act not required	-35.53196985	144.9544597
DENILQUIN	BP Depot (Reliance Petroleum)	125 - 127 Hardinge STREET	Service Station	Regulation under CLM Act not required	-35.53222124	144.9517397
DENILQUIN	Former Shell Depot	143-147 Napier STREET	Other Petroleum	Regulation under CLM Act not required	-35.5342355	144.953169
DENMAN	Former Industrial Site	10 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37945456	150.6868239
DENMAN	Former Industrial Site	9 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37911159	150.6869866
DORA CREEK	Former Service Station	4 Doree PLACE	Service Station	Regulation under CLM Act not required	-33.08452746	151.502415
DOUBLE BAY	64 Suttie Road, Double Bay NSW 2028	64 Suttie ROAD	Other Industry	Regulation under CLM Act not required	-33.885236	151.247208
DOYALSON	Part Lot 3 DP 259306	Off David STREET	Other Industry	Regulation under CLM Act not required	-33.20436131	151.5232558
DOYALSON	Mummorah Power Station	(Central Coast Highway) Scenic DRIVE	Unclassified	Regulation under CLM Act not required	-33.20678347	151.540795

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DOYALSON	Manning Colliery (formerly Wyee)	Rutleys ROAD	Other Industry	Regulation under CLM Act not required	-33.17179576	151.5419248
DOYALSON NORTH	Caltex Service Station	235 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18501024	151.5526114
DOYALSON NORTH	Shell Coles Express Service Station	260-270 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18636608	151.5482399
DRUMMOYNE	Coles Express Service Station Drummoynes (Eastbound)	36-46 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85576628	151.1593519
DRUMMOYNE	Former Dry Cleaners	225 Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.8507152	151.1537113
DRUMMOYNE	Coles Express Service Station Drummoynes South (Westbound)	39-45 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85606575	151.1589061
DRUMMOYNE	Caltex Service Station	191-195 Lyons ROAD	Service Station	Regulation under CLM Act not required	-33.85699216	151.1460356
DUBBO	BP Reliance Petroleum Service Station (Former Mobil Depot)	107 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24441287	148.6111704
DUBBO	Dubbo Police Station	143 Brisbane STREET	Other Petroleum	Regulation under CLM Act not required	-32.24652288	148.6034702
DUBBO	Shell Coles Express Service Station	131-133 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.25511317	148.6126147
DUBBO	Shell Coles Express Service Station	45-49 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.2474598	148.5932769
DUBBO	Former Mobil depot	40-44 Morgan STREET	Other Petroleum	Regulation under CLM Act not required	-32.23912277	148.6182711
DUBBO	Caltex Service Station, Dubbo	60 Windsor PARADE	Service Station	Regulation under CLM Act not required	-32.25459322	148.6318
DUBBO	BP-Branded Service Station Dubbo West	51-63 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.24827657	148.5927084
DUBBO	Lowes Petroleum (BP-Branded) Depot, Dubbo	105 Erskine STREET	Service Station	Regulation under CLM Act not required	-32.24423247	148.6101676
DUBBO	Inland Petroleum (Former Shell) Depot	109 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24470512	148.6124108

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DUBBO	Former Caltex Depot	Phillip (corner Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-32.24534863	148.6150144
DUBBO	Caltex Service Station	119 Bourke STREET	Service Station	Regulation under CLM Act not required	-32.24336464	148.6091931
DUBBO	Former Ambulance Station	165 Brisbane STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-32.24850755	148.6031749
DUBBO	United (former Volume Plus) Service Station	219-223 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.2565155	148.6228586
DUBBO	Caltex Service Station, Dubbo	Cnr Brisbane Street and Cobra STREET	Service Station	Contamination currently regulated under CLM Act	-32.25322183	148.603164
DULWICH HILL	Former Tyre Recapping	115-117 Constitution ROAD	Other Industry	Regulation under CLM Act not required	-33.90300876	151.1387724
DULWICH HILL	Denison Road Playground	194 Denison ROAD	Landfill	Regulation under CLM Act not required	-33.90121956	151.1404637
DUNEDOO	Former Shell Depot Dunedoo	Cnr Bolaro and Redbank STREET	Other Petroleum	Regulation under CLM Act not required	-32.01565761	149.3927418
DUNGOG	Lot 54 Common Rd	54 Common ROAD	Unclassified	Regulation under CLM Act not required	-32.39490989	151.739821
DUNGOG	Former HWC Maintenance Depot for Civil Engineering Works	86 Abelard STREET	Other Industry	Regulation under CLM Act not required	-32.40429396	151.7514073
DUNMORE	Equestrian Centre	71 Fig Hill LANE	Unclassified	Regulation under CLM Act not required	-34.62313393	150.8421544
DURAL	Caltex Dural Service Station	917-923 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.68312075	151.0287519
DURAL	BP Dural Service Station	580 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69569985	151.028357
DURAL	Caltex Service Station	530 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURAL	Woolworths Service Station	532 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURI	Duri Store	13 Railway AVENUE	Service Station	Contamination currently regulated under CLM Act	-31.21710021	150.8183675

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EAGLE VALE	BP Service Station	Corner Eagle Vale Drive and Gould ROAD	Service Station	Regulation under CLM Act not required	-34.03128043	150.816363
EARLWOOD	RTA Land	3 Jackson PLACE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.92724512	151.1433382
EARLWOOD	Wolli Creek Aqueduct	Unwin STREET	Unclassified	Regulation under CLM Act not required	-33.92788788	151.1480807
EARLWOOD	2, 4 & 6 Unwin Street Earlwood	2, 4 & 6 Unwin STREET	Landfill	Regulation under CLM Act not required	-33.92683761	151.149505
EAST BALLINA	Caltex East Ballina Service Station	34 Links AVENUE	Service Station	Regulation under CLM Act not required	-28.85009113	153.5829246
EAST GOSFORD	Presbyterian Aged Care Facility	8-18 Enid CRESCENT	Landfill	Regulation under CLM Act not required	-33.4376675	151.3577947
EAST GOSFORD	Mobil Service Station	44 Victoria STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.43804781	151.353303
EAST GOSFORD	Hylton Moore Park	Althrop STREET	Landfill	Contamination currently regulated under CLM Act	-33.4352203	151.3601193
EAST MAITLAND	United Service Station East Maitland	164 (also known as 250) Newcastle STREET	Service Station	Regulation under CLM Act not required	-32.75245246	151.5869136
EAST MAITLAND	Woolworths Caltex Green Hills	14 Mitchell DRIVE	Service Station	Regulation under CLM Act not required	-32.76182386	151.5927863
EAST MAITLAND	Former Gasworks Site	Corner Melbourne Street and Brisbane STREET	Gasworks	Regulation under CLM Act not required	-32.74939199	151.5788783
EAST MAITLAND	Caltex East Maitland Service Station	Newcastle Road, Corner William STREET	Service Station	Regulation under CLM Act not required	-32.74883712	151.5829296
EAST TAMWORTH	Caltex Service Station	350-362 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.11401974	150.9613327
EASTERN CREEK	Caltex Service Station	M4 (Eastbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.801607	150.8857989
EASTERN CREEK	Caltex Service Station M4 Motorway Westbound	M4 (Westbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.80255701	150.8829211
EASTERN CREEK	Fulton Hogan Industries (formerly Pioneer Road Services)	Honeycomb DRIVE	Other Industry	Regulation under CLM Act not required	-33.80231274	150.8288299

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EASTGARDENS	130-150 Bunnerong Road Eastgardens	130 - 150 Bunnerong ROAD	Other Industry	Regulation under CLM Act not required	-33.94230414	151.2248138
EASTLAKES	Former Shell Rosebery service station and adjacent land	275-279 Gardeners ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92470279	151.2100722
EASTLAKES	Eastlakes Reserve	Evans AVENUE	Service Station	Contamination formerly regulated under the CLM Act	-33.92497291	151.2102725
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.93120382	151.2054267
EASTLAKES	73 Gardeners Road	73 Gardeners ROAD	Unclassified	Regulation under CLM Act not required	-33.92541594	151.2182856
EASTWOOD	Former Mobil Service Station Eastwood	3-5 Trelawney (Cnr Rutledge St) STREET	Service Station	Regulation under CLM Act not required	-33.79273381	151.078584
EDEN	Caltex Service Station	159 Imlay STREET	Service Station	Regulation under CLM Act not required	-37.06324099	149.9044022
EDEN	Former Caltex Eden Depot	80-82 Imlay STREET	Service Station	Contamination currently regulated under CLM Act	-37.0570984	149.9038538
EDENSOR PARK	Caltex Bonnyrigg Service Station, Edensor Park	549 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88840816	150.8822609
EDENSOR PARK	7-Eleven (former Mobil) Service Station	615-621 Cowpasture Road, corner Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88326139	150.865591
EDGECLIFF	BP-branded (former Coles Express) Service Station	73-85A New South Head ROAD	Service Station	Regulation under CLM Act not required	-33.8769602	151.2311617
EDGEWORTH	Caltex Service Station	662 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92566329	151.6278888
EDGEWORTH	Caltex-Woolworths Branded Service Station Edgeworth	738-742 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92455492	151.6202897
EMERALD BEACH	Shell Coles Express Woolgoolga Service Station	1850 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.16450856	153.1826673
EMERTON	7-Eleven Emerton	135-137 Popondetta ROAD	Service Station	Regulation under CLM Act not required	-33.74463908	150.8102251
EMU HEIGHTS	7-Eleven Service Station	126 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.74299098	150.6547098

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EMU HEIGHTS	Woolworths Service Station	132 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.7429739	150.6559655
EMU PLAINS	Woolworths Service Station	283 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.75371349	150.6530165
ENGADINE	Former Caltex Service Station	995 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.06413459	151.0155734
ENGADINE	BP Service Station	1734 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.07735416	151.01171
ENGADINE	BP Branded Service Station	963 Old Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.06428454	151.0167121
EPPING	7-Eleven (former Mobil) Service Station	246 Beecroft ROAD	Service Station	Regulation under CLM Act not required	-33.77073552	151.080581
ERINA	Coles Express Service Station Erina	211 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43547804	151.3850522
ERINA	7-Eleven Erina	214 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43494257	151.3879511
ERINA	7-Eleven Service Station	96 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43786868	151.3729331
ERINA	Jaycar Electronics Store	1 Aston ROAD	Other Petroleum	Regulation being finalised	-33.434878	151.3845431
ERINA	Caltex Service Station	155 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43824871	151.3801096
ERMINGTON	Blue Star Ermington	700 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80859566	151.0660133
ERMINGTON	Caltex Service Station	562 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81392814	151.0547543
ERSKINE PARK	Western Sydney Service Centre	25-55 Templar ROAD	Other Industry	Regulation under CLM Act not required	-33.81897822	150.7937394
ERSKINEVILLE	Redevelopment Site (Former Industrial Park) Erskineville	36/1A Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90325501	151.1855668
ERSKINEVILLE	Department of Housing	52 John STREET	Other Industry	Regulation under CLM Act not required	-33.8982925	151.1840284

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ERSKINEVILLE	RailCorp land	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90483899	151.1838804
ERSKINEVILLE	Lot 4/1A Coulson Street	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90316549	151.1867963
ERSKINEVILLE	Area B - Public Domain / The Roadway	1A Coulson STREET	Other Petroleum	Regulation under CLM Act not required	-33.90499999	151.1873028
EUABALONG WEST	BP Euabalong West Depot (Reliance Petroleum)	17 Illewong STREET	Other Petroleum	Regulation under CLM Act not required	-33.05720426	146.3946386
EVANS HEAD	Evans Head Aerodrome	Memorial Airport DRIVE	Other Industry	Regulation under CLM Act not required	-29.10389976	153.4216791
EVANS HEAD	Bundjalung National Park	The Gap ROAD	Unclassified	Regulation under CLM Act not required	-29.24433977	153.3626472
EVANS HEAD	Evans Head Residential subdivision	Bounded by Currajong, Woodburn, Carrabeen Streets and Tuckeroo CRESCENT	Unclassified	Regulation under CLM Act not required	-29.1080969	153.4243577
EVELEIGH	Macdonaldtown Triangle	Burren STREET	Gasworks	Contamination being managed via the planning process (EP&A Act)	-33.89803492	151.186059
EVELEIGH	Australian Technology Park	Henderson ROAD	Other Industry	Regulation under CLM Act not required	-33.89634136	151.1944915
FAIRFIELD	Endeavour Energy Fairfield Zone Substation	22 Hedges STREET	Other Industry	Regulation under CLM Act not required	-33.86133019	150.9555899
FAIRFIELD EAST	Speedway-Branded Service Station Fairfield	251 The Horsley DRIVE	Service Station	Regulation under CLM Act not required	-33.8711661	150.9630077
FAIRFIELD HEIGHTS	7-Eleven Fairfield Heights	234 Hamilton (Cnr The Boulevard) ROAD	Service Station	Regulation under CLM Act not required	-33.87208474	150.9373134
FAIRY MEADOW	Woolworths Petrol Service Station	47 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39399705	150.8925369
FAIRY MEADOW	Caltex Fuel Depot and adjoining land	46 Montague STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.40050499	150.8953125
FAIRY MEADOW	Deynal (Seeman)	51-59 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39437085	150.8924666
FARLEY	Farley Wastewater Treatment Works	Owlpen LANE	Other Industry	Regulation under CLM Act not required	-32.74431314	151.5194217

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FASSIFERN	Newstan Colliery	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.97942521	151.5660046
FASSIFERN	Former Arsenic Smelter	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.99649819	151.5618283
FEDERAL	Federal General Store	3-6 Federal DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-28.65190728	153.4552976
FERN BAY	Former service station	37 Fullerton (1006 Nelson Bay Road) STREET	Service Station	Regulation under CLM Act not required	-32.87245004	151.7939904
FIVE DOCK	7-Eleven Five Dock Service Station	231-235 Great North ROAD	Service Station	Regulation under CLM Act not required	-33.86488376	151.130002
FIVE DOCK	Caltex Five Dock Service Station	47 Ramsay Road, corner Fairlight STREET	Service Station	Regulation under CLM Act not required	-33.87002804	151.1301835
FORBES	BP (Former Mobil) Depot Forbes	3-15 Union STREET	Other Petroleum	Regulation under CLM Act not required	-33.37751977	148.0101422
FORBES	Former Gasworks	24-26 Union STREET	Gasworks	Contamination currently regulated under CLM Act	-33.37752036	148.0090064
FORBES	Woolworths (Former Save on Fuel) Service Station	26 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38148764	148.0109845
FORBES	BP Service Station Forbes	29 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38121776	148.0100351
FORBES	Former Shell Depot	Stephen STREET	Other Petroleum	Regulation under CLM Act not required	-33.37704795	148.0103001
FORBES	Caltex Service Station Forbes	Parke ROAD	Service Station	Regulation under CLM Act not required	-33.36333714	148.0223727
FORESTVILLE	BP Service Station	632 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75997969	151.2142944
FORESTVILLE	Shell Service Station	667 Warringah ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.76035336	151.2184929
FORRESTER'S BEACH	Caltex Service Station	The Entrance Rd Cnr Bellevue ROAD	Service Station	Regulation under CLM Act not required	-33.40057818	151.4687631
FORSTER	Caltex Service Station	16-18 Lake STREET	Service Station	Regulation under CLM Act not required	-32.18306967	152.5162492

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FORSTER	Shell (Kneebone's) Service Station	2-6 The Lakes WAY	Service Station	Regulation under CLM Act not required	-32.1946108	152.5145662
FORSTER	Enhance (Former Mobil) Service Station	86-88 Macintosh STREET	Service Station	Regulation under CLM Act not required	-32.19079468	152.5154847
FREDERICKTON	Former Service station	2-4 Great North ROAD	Service Station	Regulation under CLM Act not required	-31.03513998	152.8794105
FRENCHS FOREST	Former BP Service Station	Russell AVENUE	Service Station	Regulation under CLM Act not required	-33.75018093	151.2245005
FRENCHS FOREST	Former 7-Eleven / Mobil Beacon Hill Service Station, Frenchs Forest	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
FRESHWATER	Prime Service Station Freshwater	117 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.77286748	151.2794354
FRESHWATER	Former Dry Cleaners	121 Wyndora AVENUE	Other Industry	Regulation under CLM Act not required	-33.77425321	151.2821533
GEORGETOWN	Former Caltex Service Station	4 Georgetown ROAD	Service Station	Regulation under CLM Act not required	-32.911271105	151.7319693
GERRINGONG	Gerringong Cooperative	18 Belinda STREET	Other Petroleum	Regulation under CLM Act not required	-34.74518835	150.8181054
GILGANDRA	United (Former Mobil) Service Station	13 Castlereagh STREET	Service Station	Regulation under CLM Act not required	-31.71715641	148.6581574
GILGANDRA	Former Mobil Depot	2 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70937362	148.6522102
GILGANDRA	Former Mobil Depot	20 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70771744	148.6514198
GILGANDRA	Caltex Service Station Gilgandra	6425 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-31.72545524	148.65281
GILLENBAH	Caltex (Former Mobil) Narrandera Service Station	16321 - 16335 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-34.76124219	146.5398604
GIRRAWEE	Industrial Galvanizers site	20-22 Amax AVENUE	Metal Industry	Under assessment	-33.80500693	150.9396743
GIRRAWEE	Caltex Pendle Hill Service Station Girraween	602 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80827518	150.9421511

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GLADESVILLE	Caltex Service Station	287-295 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8285374	151.1268639
GLADESVILLE	Road Reserve	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.81603924	151.1355085
GLADESVILLE	Caltex Service Station	116 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.83575319	151.1277863
GLADESVILLE	Glade View Business Park	436-484 Victoria ROAD	Other Industry	Under assessment	-33.82382382	151.1223941
GLEBE	The Hill and Jubilee Embankment	12 Maxwell ROAD	Other Industry	Regulation under CLM Act not required	-33.87573032	151.1776027
GLEN INNES	Ambulance Station	106 Bourke STREET	Unclassified	Regulation under CLM Act not required	-29.73805854	151.7313138
GLEN INNES	Telstra Depot Glen Innes	126 Lambeth STREET	Unclassified	Regulation under CLM Act not required	-29.7356341	151.7278271
GLEN INNES	Caltex Glen Innes Service Station	Meade Street, corner Church STREET	Service Station	Regulation under CLM Act not required	-29.73699014	151.7379335
GLEN INNES	Former Shell Depot	Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.7376309	151.7276309
GLEN INNES	Former Caltex Depot, Glen Innes	Lot 1 DP785636 Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.73525485	151.7279167
GLEN INNES	Council-owned Laneway	Lot 2 Lang STREET	Gasworks	Regulation under CLM Act not required	-29.74385432	151.7323049
GLEN INNES	Caltex Service Station	Cnr Taylor Street & Church STREET	Service Station	Regulation under CLM Act not required	-29.73289036	151.739653
GLEN INNES	Caltex Glen Innes Paddock	9979 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-29.75608853	151.7344106
GLENBROOK	Caltex Service Station Glenbrook	78 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76545234	150.6215447
GLENDALE	Coles Express Glendale	593 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92709242	151.637946
GLENDALE	Settlement Pond	65 Glendale DRIVE	Unclassified	Regulation under CLM Act not required	-32.93411399	151.6483695

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GLENDALE	Former Service Station	334-342 Lake ROAD	Unclassified	Regulation under CLM Act not required	-32.92775076	151.6433463
GLENDALE	Woolworths Service Station	Stockland DRIVE	Service Station	Regulation under CLM Act not required	-32.93250548	151.6404097
GLENDENNING	7-Eleven Plumpton Service Station Glendenning	1 Dublin Street, corner Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.73988232	150.8603323
GLENORIE	Caltex Glenorie Service Station	912 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.60550946	151.0126731
GLENTHORNE	Caltex Taree Service Station	Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.94415251	152.4703511
GLOUCESTER	Caltex Service Station	141 Church STREET	Service Station	Regulation under CLM Act not required	-32.01222514	151.9578521
GOOLMANGAR	Goolmangar General Store	851 Nimbin ROAD	Service Station	Regulation under CLM Act not required	-28.74694441	153.225401
GOONELLABAH	Former Invercauld Road Cattle Dip	161 Invercauld ROAD	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.8308417	153.3098878
GOSFORD	United (Former Mobil) Depot	Corner Merinee Road and Bowen CRESCENT	Other Petroleum	Regulation under CLM Act not required	-33.41523225	151.3257069
GOULBURN	Former Goulburn Gasworks	1 Blackshaw ROAD	Gasworks	Contamination currently regulated under CLM Act	-34.75313166	149.725032
GOULBURN	Goulburn Tannery	13 Gibson STREET	Other Industry	Regulation under CLM Act not required	-34.73756525	149.72059
GOULBURN	Caltex Depot	13 Sloane STREET	Other Petroleum	Regulation under CLM Act not required	-34.77423152	149.7088626
GOULBURN	Metro Goulburn Depot	23 Braidwood ROAD	Other Petroleum	Regulation under CLM Act not required	-34.76217302	149.7170897
GOULBURN	Caltex Service Station	72-74 Clinton STREET	Service Station	Regulation under CLM Act not required	-34.75728157	149.7135824
GOULBURN	Caltex Service Station	68 Goldsmith STREET	Service Station	Regulation under CLM Act not required	-34.75054432	149.7192098
GOULBURN	Former Shell Autoport Service Station	Corner Bruce Street and Lagoon STREET	Service Station	Regulation under CLM Act not required	-34.74807885	149.7266246

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GOULBURN	Coles Express Service Station	90 Cowper (Corner Clinton Street) STREET	Service Station	Regulation under CLM Act not required	-34.75566648	149.7107831
GOULBURN	Mobil Service Station	129 Lagoon STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.74618793	149.7330484
GOULBURN	Caltex Service Station	315 Auburn, corner Bradley STREET	Service Station	Regulation under CLM Act not required	-34.74942293	149.7232692
GOULBURN	Former Mobil Service Station Goulburn	472-476 Auburn STREET	Service Station	Regulation under CLM Act not required	-34.74869879	149.7229392
GRAFTON	Former General Store and Service Station Grafton	161 Turf STREET	Service Station	Regulation under CLM Act not required	-29.67412811	152.9336609
GRAFTON	Lowes Petroleum (BP-Branded) Depot, Grafton	13 Orara STREET	Other Petroleum	Regulation under CLM Act not required	-29.67016421	152.918161
GRAFTON	Former Shell Depot	2 Milton STREET	Other Petroleum	Regulation under CLM Act not required	-29.67723019	152.9205374
GRAFTON	Grafton Works Depot	26-28 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.67975507	152.9249357
GRAFTON	Former BP Service Station (Reliance Petroleum)	202 Queen STREET	Service Station	Regulation under CLM Act not required	-29.67645469	152.9423977
GRAFTON	Woolworths Petrol	75 - 77 Fitzroy Street Cnr of Duke STREET	Service Station	Regulation under CLM Act not required	-29.69221713	152.9343562
GRAFTON	Caltex Service Station	Corner Villiers St and Fitzroy STREET	Service Station	Regulation under CLM Act not required	-29.69296308	152.9366431
GRAFTON	BP Service Station (Reliance Petroleum)	14 Villiers (Cnr Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-29.69345456	152.9373123
GRAFTON	Former Mobil Depot Grafton	2-16 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.68093591	152.9231289
GRAFTON	Caltex Service Station	179 Prince STREET	Service Station	Regulation under CLM Act not required	-29.68600117	152.9371093
GRANVILLE	Caltex Service Station	144 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83039605	151.0109216
GRANVILLE	Australand	15-17 Berry STREET	Other Industry	Regulation under CLM Act not required	-33.83600073	151.0211988

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GRANVILLE	Woolworths Service Station Granville	158 Clyde STREET	Service Station	Regulation under CLM Act not required	-33.84623338	151.0124885
GRANVILLE	Commercial Property	28 Factory STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84173556	151.0165687
GRANVILLE	Old Granville Depot	23 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-33.83765925	151.008528
GRANVILLE	7-Eleven Service Station	154-160 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83027685	151.0101322
GRANVILLE	A/Becketts Creek	Albert STREET	Unclassified	Contamination currently regulated under POEO Act	-33.82735776	151.0112255
GREENACRE	Former Plating Works	12 Claremont STREET	Unclassified	Regulation under CLM Act not required	-33.89992254	151.0386128
GREENACRE	7-Eleven (former Mobil) Service Station	301-305 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90524488	151.0419971
GREENACRE	Caltex Service Station	87 - 91 Roberts ROAD	Service Station	Regulation under CLM Act not required	-33.90461089	151.0648581
GREENACRE	Coles Greenacre	13-19 Boronia ROAD	Other Industry	Regulation under CLM Act not required	-33.9061123	151.0561759
GREENWICH	Gore Creek Reserve - Drainage Line	St Vincents ROAD	Other Industry	Regulation under CLM Act not required	-33.82888693	151.1819101
GRENFELL	Former SRA Fuel Depot	Grafton STREET	Other Petroleum	Regulation under CLM Act not required	-33.89351237	148.1560188
GRENFELL	Grenfell Gasworks	Corner Gooloogong Road & Bourke STREET	Gasworks	Regulation under CLM Act not required	-33.89006016	148.1615443
GRETA	Coles Express Greta	122 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.6756357	151.3872818
GRETA	redevelopment site	112-114 High STREET	Other Industry	Regulation under CLM Act not required	-32.67706709	151.3876682
GRETA	Former landfill	Hollingshed ROAD	Landfill	Regulation under CLM Act not required	-32.66705287	151.3923474
GREYSTANES	Metro Branded (former Mobil) Service Station	73 Ettalong ROAD	Service Station	Regulation under CLM Act not required	-33.81822648	150.9513946

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GRIFFITH	Liberty Depot (former Shell CVRO) Griffith	6-10 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2910045	146.063824
GRIFFITH	Former Murrumbidgee Irrigation Depot	55-77 Banna AVENUE	Other Industry	Regulation under CLM Act not required	-34.28858242	146.0567509
GRIFFITH	Mobil Depot - Griffith Airport	Off Remembrance DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.25618872	146.0620449
GRIFFITH	Former Ampol Depot	37-34 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2933331	146.0679503
GRIFFITH	Caltex Service Station and Depot	2-4 Mackay AVENUE	Service Station	Regulation under CLM Act not required	-34.2908766	146.0630815
GRIFFITH	Former Landmark Fertiliser Storage Facility	2-8 Jensen ROAD	Chemical Industry	Regulation under CLM Act not required	-34.29365599	146.0536413
GRIFFITH	Belford Petroleum (former Mobil) Depot	30 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.29042827	146.0595497
GRIFFITH	Former BP Service Station (Reliance Petroleum)	81 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.28851251	146.0540815
GUILDFORD	7-Eleven Service Station Guildford West	176 Fowler ROAD	Service Station	Regulation under CLM Act not required	-33.85149493	150.9722491
GULGONG	Lowes Petroleum (former BP) Depot Gulgong	6 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-32.35950625	149.5461499
GULGONG	The Oval Site	Queen STREET	Unclassified	Regulation under CLM Act not required	-32.36169815	149.531075
GULMARRAD	BP Service Station Maclean	3976 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-29.48537407	153.2004311
GUMILY GUMILY	Caltex Service Station	3723 Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-35.13590309	147.4424551
GUMILY GUMILY	Brick Kiln Reserve	Eunony Bridge ROAD	Landfill	Regulation under CLM Act not required	-35.12098411	147.4196309
GUNDAGAI	Former Mobil Depot	98 Mount STREET	Other Petroleum	Regulation under CLM Act not required	-35.08206783	148.096221
GUNNEDAH	Caltex Service Station	21 Abbott STREET	Service Station	Regulation under CLM Act not required	-30.98021001	150.2561856

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GUNNEDAH	Former Shell Depot Gunnedah	85-89 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97949284	150.2507401
GUNNEDAH	Mobil Gunnedah Depot	16-24 Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-30.98428725	150.260609
GUNNEDAH	BP Depot Gunnedah	103 Mathias ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-30.96665001	150.2326526
GUNNEDAH	BP Service Station	Corner Conadilly Street & Henry STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.98116266	150.2583066
GUNNEDAH	Mobil Service Station	341 Conadilly STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.9807394	150.2578428
GUNNEDAH	Property NSW Site	35-37 Abbott STREET	Other Petroleum	Regulation under CLM Act not required	-30.9789841	150.25737
GUNNEDAH	Former Telstra Line Depot	81 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.9793809	150.2503121
GUNNEDAH	Adjacent to Service Station	Intersection of Henry Street and Conadilly STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.98072588	150.2582802
GUNNEDAH	Former Caltex Depot	61 Railway AVENUE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.97953242	150.2494457
GUNNING	Gunning Motors	56 Yass STREET	Service Station	Regulation under CLM Act not required	-34.78159326	149.2684791
GUYRA	Guyra Fourways Service Centre	87-89 Bradley STREET	Service Station	Regulation under CLM Act not required	-30.24580085	151.6701156
GUYRA	Caltex-branded Service Station	4352 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.20601937	151.6757291
GUYRA	StateRail land leased to Indtec	Starr ROAD	Other Industry	Regulation under CLM Act not required	-30.23157011	151.6707135
GWANDALAN	Metro Petroleum Gwandalan (Formerly Gwandalan Auto Care)	47 Orana ROAD	Service Station	Regulation under CLM Act not required	-33.13632941	151.5813396
GWANDALAN	Former Gwandalan Landfill	Kanangra DRIVE	Landfill	Regulation under CLM Act not required	-33.17497722	151.5917107
GYMEA	7-Eleven (former Mobil) GyMEA Service Station	110 GyMEA Bay ROAD	Service Station	Regulation under CLM Act not required	-34.03745848	151.0848547

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GYMEA	Coles Express Kirrawee	470 Princes (Cnr The Boulevard) HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.02735302	151.0845079
GYMEA	Former Shell Service Station GyMEA	GyMEA Bay ROAD	Service Station	Regulation under CLM Act not required	-34.04129676	151.0841328
HABERFIELD	7-Eleven Haberfield	25-35 Parramatta ROAD	Service Station	Contamination currently regulated under CLM Act	-33.88794591	151.14287
HALEKULANI	Former Halekulani Landfill	Macleay DRIVE	Landfill	Regulation under CLM Act not required	-33.21446301	151.5527625
HAMILTON	SRA Land	10 Maitland ROAD	Unclassified	Regulation under CLM Act not required	-32.91994358	151.7512417
HAMILTON	Taxi Services	116 Tudor STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.92351606	151.7454742
HAMILTON	Caltex Hamilton	59-63 Tudor STREET	Service Station	Regulation under CLM Act not required	-32.92498593	151.7509313
HAMILTON	Newcastle Toyota	65 Tudor STREET	Other Petroleum	Regulation under CLM Act not required	-32.925171	151.7504048
HAMILTON	Hamilton Bus Depot	Cnr Denison Street and Gordon AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.92687413	151.7501743
HAMILTON NORTH	Shell Newcastle Terminal	5 Chatham ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-32.91630469	151.7408712
HAMILTON NORTH	Former Black and Decker Site	56 Clyde STREET	Metal Industry	Contamination currently regulated under CLM Act	-32.91080413	151.7358236
HAMILTON NORTH	Hamilton Gasworks	1 Chatham ROAD	Gasworks	Contamination currently regulated under CLM Act	-32.91362741	151.7406241
HAMILTON NORTH	Former ELMA Site	54 Clyde STREET	Other Industry	Contamination currently regulated under CLM Act	-32.91145768	151.7367691
HARDEN	SRA Site	31 Aurvill ROAD	Unclassified	Regulation under CLM Act not required	-34.54998656	148.3689577
HARDEN	SRA Site	51 Whitton LANE	Unclassified	Contamination formerly regulated under the CLM Act	-34.55396035	148.3713349
HARDEN	South West Fuel Harden	294 Albury STREET	Service Station	Regulation under CLM Act not required	-34.55007021	148.3513821

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HAROLDS CROSS	Lot 59, Vernelly Road, Harolds Cross NSW 2622	Lot 59, Vernelly ROAD	Other Industry	Regulation under CLM Act not required	-35.548668	149.588559
HARRIS PARK	Dalley Street Reserve	2A Dalley STREET	Other Industry	Regulation under CLM Act not required	-33.82749123	151.0097539
HARTLEY VALE	Former Shale Oil Refinery	Lot 52 Hartley Vale ROAD	Unclassified	Contamination currently regulated under CLM Act	-33.52766912	150.2417878
HASTINGS POINT	Coles Express Hastings Point	99 Tweed Coast ROAD	Service Station	Regulation under CLM Act not required	-28.36914103	153.5725676
HAY	SRA Land	429, 431, 435, 437 & 439 Murray STREET	Other Industry	Regulation under CLM Act not required	-34.49965611	144.840976
HAY	SRA Land	443 Murray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.49966753	144.8410778
HAY	Former Shell Hay Depot	391 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50028195	144.8463999
HAY	Former Mobil Depot Hay	397-399 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50019184	144.8456578
HAY SOUTH	Caltex Service Station	429-431 Moama STREET	Service Station	Regulation under CLM Act not required	-34.52001427	144.8380121
HAZELBROOK	Caltex Service Station Hazelbrook	198 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72106175	150.4520976
HEATHCOTE	Caltex Service Station	1344 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08841066	151.0072048
HEATHCOTE	Caltex Service Station	1403 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.09059834	151.003752
HEATHCOTE	Shell Coles Express Service Station	1355 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08780042	151.0069741
HEATHERBRAE	Bogas (Former Caltex) Service Station	3 Speedy Lock LANE	Service Station	Regulation under CLM Act not required	-32.78057822	151.7372135
HEATHERBRAE	Shell Coles Express Motto Farm Service Station	2137 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.79835449	151.7176284
HEXHAM	QR National - Hexham Precinct	179 & 3/67 Maitland ROAD	Other Industry	Regulation under CLM Act not required	-32.83474038	151.6821895

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HEXHAM	Caltex Diesel Stop	360 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82844873	151.6851063
HEXHAM	Cummins Newcastle Facility Hexham	21 Gallegshan STREET	Other Industry	Regulation under CLM Act not required	-32.83186739	151.686709
HEXHAM	BP Service Station (Reliance Petroleum)	Corner Pacific Highway and Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82756403	151.6846929
HEXHAM	Former Forgacs Site	21 Sparke STREET	Chemical Industry	Contamination currently regulated under CLM Act	-32.85464558	151.6988053
HEXHAM	Caltex-Bogas Warehouse	239 Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82899942	151.6861849
HEXHAM	Industrial Galvanizers	312 Pacific HIGHWAY	Metal Industry	Contamination currently regulated under POEO Act	-32.83457186	151.6884941
HEXHAM	14 Sparke St Hexham	14 Sparke STREET	Metal Industry	Under assessment	-32.85394328	151.6960863
HILLSTON	Former BP Depot Hillston	141-143 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-33.48823546	145.5381623
HOLBROOK	Caltex Truckstop	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71332625	147.3207237
HOMEBUSH	Ausgrid Mason Park Substation	1 Underwood ROAD	Other Industry	Regulation under CLM Act not required	-33.85674677	151.0747044
HOMEBUSH BAY	SUEZ Waste Recycling Centre (WRC) and Cleanaway Liquid Waste Treatment Plant (LWTP)	Corner Pondage Link and Hill ROAD	Landfill	Regulation under CLM Act not required	-33.84359299	151.0593656
HOMEBUSH WEST	Caltex Service Station Homebush West	334-336 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.8581543	151.0581261
HOMEBUSH WEST	Former Ford Landfill and Adjacent Land	22 Mandemar AVENUE	Landfill	Under assessment	-33.86142424	151.0625556
HORNSBY	Midas Car Care Centre Hornsby	2A Linda STREET	Other Industry	Regulation under CLM Act not required	-33.70052215	151.1004786
HORNSBY	Coles Express Hornsby	194- 206 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.7071993	151.0991452
HORNSBY	Hornsby Train Maintenance Centre	1B Stephen STREET	Other Industry	Regulation under CLM Act not required	-33.69370022	151.1035939

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HIXTON PARK	Endeavour Energy Hoxton Park	490 Hoxton Park ROAD	Other Industry	Regulation under CLM Act not required	-33.92766437	150.8689069
HUNTERS HILL	Coles Express Hunters Hill	4 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.8317985	151.141655
HUNTERS HILL	Foreshore Land	Rear of 7, 9 & 11 Nelson PARADE	Other Industry	Contamination currently regulated under CLM Act	-33.84248362	151.1649249
HUNTERS HILL	7, 9 and 11 Nelson Parade Hunters Hill	7, 9 and 11 Nelson PARADE	Other Industry	Regulation under CLM Act not required	-33.84220148	151.1649724
HURLSTONE PARK	Former Telstra Depot	82 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90803171	151.1258121
HURLSTONE PARK	Former Speedway Petroleum Service Station	610 - 618 New Canterbury ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.90541228	151.1322009
HURLSTONE PARK	7-Eleven Hurlstone Park	670 New Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90510388	151.1299825
HURSTVILLE GROVE	Moore Reserve	Morhead DRIVE	Landfill	Contamination currently regulated under CLM Act	-33.97920603	151.0873578
INGLEBURN	7-Eleven Ingleburn	72 Cumberland Road, corner Oxford ROAD	Service Station	Regulation under CLM Act not required	-34.00041505	150.8679742
INVERELL	Former Shell Depot	25 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76151684	151.1182033
INVERELL	Former Service Station	20 Oliver STREET	Service Station	Regulation under CLM Act not required	-29.77229743	151.1152692
INVERELL	Former Caltex Depot Inverell	4 Edward STREET	Service Station	Regulation under CLM Act not required	-29.76123104	151.1147983
INVERELL	Former Mobil Inverell Depot	29-33 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76135322	151.1171412
INVERELL	Caltex Service Station	55-59 Ring STREET	Service Station	Regulation under CLM Act not required	-29.76204512	151.1141737
INVERELL	Former Mobil Service Station	Corner Otho Street and Henderson STREET	Service Station	Regulation under CLM Act not required	-29.7786926	151.1149921
INVERELL	Former Caltex Service Station	141 Otho STREET	Service Station	Regulation under CLM Act not required	-29.77819403	151.1145699

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ISLINGTON	Caltex Service Station	240 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.91138644	151.7457701
ISLINGTON	Shell Pipeline Easement (vacant land)	24 Fern STREET	Other Petroleum	Regulation under CLM Act not required	-32.91706254	151.7473809
JAMISONTOWN	BP Service Station Jamisontown	124 - 128 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76978323	150.6764977
JAMISONTOWN	Former Caltex Jamisontown	279-231 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76661447	150.6784735
JAMISONTOWN	7-Eleven Service Station	92 Mulgoa ROAD	Service Station	Contamination currently regulated under CLM Act	-33.7667231	150.6796488
JANNALI	Former Mobil Service Station	121 Georges River ROAD	Service Station	Regulation under CLM Act not required	-34.01614613	151.0681921
JANNALI	Former IGA	541 Box ROAD	Other Industry	Regulation under CLM Act not required	-34.01602134	151.0660384
JENNINGS	Jennings Former Arsenic Poison Factory	Duke Street, Manor Street, and Ballandean STREET	Chemical Industry	Contamination currently regulated under CLM Act	-28.929342	151.9298622
JENNINGS	United Jennings Service Station	1823 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-28.9323235	151.9260334
JESMOND	Caltex Service Station	27 Bluegum ROAD	Service Station	Regulation under CLM Act not required	-32.9029287	151.691164
JINDABYNE	BP Service Station (Reliance Petroleum)	8 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41478692	148.6178882
JINDABYNE	Caltex Service Station	50 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41395847	148.6225113
JINGELLIC	Former Jingellic School	3179 River ROAD	Other Industry	Regulation under CLM Act not required	-35.92649487	147.7010655
JUNEE	Subdivision Proposal	5858 Gundagai ROAD	Unclassified	Regulation under CLM Act not required	-34.87783587	147.6067578
JUNEE	United Junee Service Station	No. 118-134 BROADWAY	Service Station	Regulation under CLM Act not required	-34.86808328	147.5834883
JUNEE	Junee Railway Workshops	92 Harold STREET	Other Industry	Under assessment	-34.88393	147.579631

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KANAHOOKA	Former Dapto Smelter Site, Kanahooka (redeveloped)	Off Kanahooka ROAD	Metal Industry	Regulation under CLM Act not required	-34.4941348	150.8224482
KANDOS	Cement Australia Kandos Cement Works	1 Jamison STREET	Other Industry	Regulation under CLM Act not required	-32.86399912	149.9779259
KANWAL	Kanwal General Store and Fuel Supplies and Adjacent Land	68 and part of 70 Craigie AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.26310031	151.4817395
KANWAL	Former Bus and Truck Rental Yard	645-647 Pacific Highway HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.26233802	151.4825469
KARIONG	Coles Express Kariong	6 Central Coast HIGHWAY	Service Station	Regulation under CLM Act not required	-33.43443192	151.2963401
KARIONG	Caltex Service Station	Lot 2 Langford DRIVE	Service Station	Regulation under CLM Act not required	-33.43934827	151.2935447
KARUAH	BP Roadhouse Karuah	403 Tarean ROAD	Service Station	Regulation under CLM Act not required	-32.65371781	151.9629963
KATOOMBA	Aldi Stores	201 Katoomba STREET	Service Station	Regulation under CLM Act not required	-33.71756625	150.3101649
KATOOMBA	Former Katoomba/Leura Gasworks	Megalong STREET	Gasworks	Contamination currently regulated under CLM Act	-33.71304308	150.3194624
KELLYVILLE	Caltex Service Station	3-5 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71436125	150.9602175
KELLYVILLE	BP Service Station Kellyville	19-23 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71280997	150.9590756
KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41904247	149.6023985
KELSO	BP Service Station (Reliance Petroleum)	63 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41925328	149.6076677
KEMBLA GRANGE	ShowCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776
KEMPS CREEK	Caltex branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the planning process (EP&A Act)	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	Regulation under CLM Act not required	-31.07603107	152.8350132
KEMPSEY	Shell Coles Express Service Station Kempsey	165 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07036743	152.8461571
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	Regulation under CLM Act not required	-31.07965043	152.8326303
KEMPSEY	Liberty (Former Mobil) Service Station	108-112 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07492508	152.8431945
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91035885	151.2228537
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9059246	151.2247891
KENSINGTON	Footpath adjacent to 10-20 Anzac Parade	10-20 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9032124	151.2237836
KENSINGTON	Caltex Service Station	211-213 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91460752	151.2251266
KENTHURST	Vacant Land	259 McClymonts ROAD	Unclassified	Regulation under CLM Act not required	-33.61283529	150.9425303
KHANCOBAN	Khancoban Tip	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21994191	148.1542718
KIAMA	Former Gasworks	105 to 109 and 113 Shoalhaven STREET	Gasworks	Regulation under CLM Act not required	-34.67416881	150.8504143
KIAMA HEIGHTS	Former Mobil Service Station Kiama	7-9 South Kiama DRIVE	Service Station	Regulation under CLM Act not required	-34.69553931	150.8437977
KILLARA	7-Eleven Service Station (Former Mobil)	496 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.77146554	151.1606903
KILLARA	Former Caltex Service Station	692B-694 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.76306802	151.1550109

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KILLARA	Killara Garage	544 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76974164	151.1599696
KILLARA	Former BP Service Station Lindfield	478 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.7719298	151.1613874
KILLARA	Land Adjacent to Former Service Station Site	684-684a, 690, 692 and 696 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.7631019	151.1548963
KINCUMBER	Frost Reserve	Avoca DRIVE	Landfill	Contamination currently regulated under CLM Act	-33.47065695	151.3909044
KINGS PARK	Multi-Fill	14 Garling ROAD	Chemical Industry	Under assessment	-33.74478046	150.9111964
KINGS PARK	Former Dow Corning Factory	21 Tattersall ROAD	Chemical Industry	Regulation under CLM Act not required	-33.75012653	150.9138477
KINGSFORD	Caltex Service Station	603-611 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.93435787	151.2371198
KINGSFORD	Coles Express Service Station Kingsford	58 Gardeners ROAD	Service Station	Regulation under CLM Act not required	-33.9250054	151.2257601
KINGSGROVE	Shell Coles Express Service Station	137 Kingsgrove ROAD	Service Station	Regulation under CLM Act not required	-33.93276948	151.099026
KINGSGROVE	Caltex Kingsgrove	351-357 Stoney Creek ROAD	Service Station	Regulation under CLM Act not required	-33.95132175	151.0926872
KINGSGROVE	State Transit Authority Depot	17-23 Richland STREET	Other Petroleum	Regulation under CLM Act not required	-33.93646086	151.0973617
KIRRAWEE	Ingal Civil Products	127-141 Bath ROAD	Metal Industry	Regulation under CLM Act not required	-34.03029516	151.0754469
KIRRAWEE	7-Eleven (former Mobil) Service Station	542-546 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.03238179	151.0758071
KIRRAWEE	Caltex-branded Kirrawee Service Station	(1-3 Waratah Street) 487 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02915971	151.0808279
KOGARAH	Scarborough Park South	184R Production AVENUE	Landfill	Regulation being finalised	-33.97922253	151.140276
KOGARAH	Caltex Service Station	29 President AVENUE	Service Station	Regulation under CLM Act not required	-33.96516866	151.141145

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KOGARAH	7-Eleven Service Station	736 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.96406472	151.1376011
KOGARAH	Woolworths Petrol Service Station	69 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.96330397	151.1371182
KOOLIHAN	Former Koolihan Power Station	Summerland WAY	Other Industry	Regulation under CLM Act not required	-29.61688704	152.9300645
KOORAGANG	NPC, berths 2 and 3	Heron ROAD	Metal Industry	Regulation under CLM Act not required	-32.89260063	151.7742527
KOORAGANG	Kooragang Island Waste Facility	Off Cormorant ROAD	Metal Industry	Contamination currently regulated under POEO Act	-32.86901125	151.7377773
KOORAGANG	Orica Kooragang Island	15 Greenleaf ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-32.89654619	151.7717372
KOORAGANG	Former Boral Timber Export Facility	16 Heron ROAD	Other Industry	Regulation under CLM Act not required	-32.89710295	151.7739966
KOORAGANG	Cleanaway Technical Services	19 Egret STREET	Other Industry	Regulation under CLM Act not required	-32.8812145	151.766282
KOORAGANG	Industrial Facility	39 Heron ROAD	Chemical Industry	Under assessment	-32.89106439	151.7784064
KOORAGANG	Vacant Land	Raven Street and Cormorant ROAD	Unclassified	Regulation under CLM Act not required	-32.88410199	151.7701334
KOORAGANG	Linx Logistics	240 Cormorant ROAD	Other Industry	Regulation under CLM Act not required	-32.87480951	151.7757352
KOORINGAL	Former Shell Wagga Depot	11-15 Lake Albert ROAD	Other Petroleum	Regulation under CLM Act not required	-35.12273113	147.3786005
KOORINGAL	Caltex Service Station	265-267 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.14078443	147.3755442
KOORINGAL	Caltex-branded (former Mobil) Service Station	24 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.12239591	147.3769936
KOSCIUSZKO	Smiggin Holes Snow Clearing Shed	Link ROAD	Landfill	Regulation under CLM Act not required	-36.39098211	148.4304981
KOSCIUSZKO	Khancoban Spoil Dump	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21982803	148.1527401

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KOSCIUSZKO	Sawpit Creek landfill	13km from Jindabyne, off Kosciuszko ROAD	Landfill	Regulation under CLM Act not required	-36.34858097	148.5673374
KURMOND	BP Service Station	501 Bells Line of road ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.55098195	150.6912536
KURNELL	Former Phillips Imperial Chemicals site	260 Captain Cook DRIVE	Chemical Industry	Regulation under CLM Act not required	-34.02493837	151.1952149
KURNELL	Caltex Kurnell Terminal (refer also to ID73868)	2 Solander STREET	Other Petroleum	Contamination currently regulated under POEO Act	-34.0175214	151.2159572
KURNELL	Abbott Australasia	Captain Cook DRIVE	Chemical Industry	Contamination formerly regulated under the CLM Act	-34.02339937	151.19921
KURNELL	Former Caltex Kurnell Service Station	Corner Captain Cook Drive and Solander STREET	Service Station	Regulation under CLM Act not required	-34.0126846	151.2094347
KURRI KURRI	United Petroleum Service Station Kurri Kurri	279-281 Lang STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.82047175	151.477646
KURRI KURRI	Kurri Kurri Smelter	Hart ROAD	Metal Industry	Regulation under CLM Act not required	-32.7873063	151.4828827
KYOGLE	Caltex Service Station	22-24 Summerland WAY	Service Station	Regulation under CLM Act not required	-28.61806766	153.003862
LAKE HAVEN	Caltex Service Station	Goobarabah Ave Cnr Gorokan DRIVE	Service Station	Regulation under CLM Act not required	-33.24337276	151.5065335
LAKEMBA	Former Lakemba Police Station	59 Quigg STREET	Unclassified	Regulation under CLM Act not required	-33.92199239	151.079412
LAKEMBA	Caltex Service Station - Corner Punchbowl Rd and Wangee Rd	81 Wangee ROAD	Service Station	Regulation under CLM Act not required	-33.91153044	151.073306
LAKEMBA	Caltex Service Station	961-967 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92671102	151.0814905
LAMBITON	Caltex Service Station	422 Newcastle ROAD	Service Station	Regulation under CLM Act not required	-32.9095592	151.7109684
LAMBITON	4-26 Verrulam Road, Lambton NSW 2259	4-26 Verrulam ROAD	Other Industry	Under assessment	-32.911599	151.717604
LANE COVE	7-Eleven Service Station	203 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81458334	151.1543844

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LANE COVE	BP-branded Jasbe Service Station	62-70 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.81108427	151.1641531
LANE COVE	Pacific Power	Sirius ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.80701776	151.1449658
LANE COVE	Coles Express Service Station Burns Bay	254 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE	331-335 Burns Bay Road, Lane Cove NSW 2066	331 and 333 - 335 Burns Bay ROAD	Other Industry	Under assessment	-33.8211575	151.1493074
LANE COVE NORTH	Former Caltex Service Station	428-432 Mowbray ROAD	Service Station	Regulation under CLM Act not required	-33.80804563	151.1721538
LANE COVE NORTH	BP Artarmon Service Station, Lane Cove North	432 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.8112038	151.175547
LANE COVE WEST	Caltex Lane Cove West	235-245 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE WEST	Ventemans Reach Bushland	Off Mars ROAD	Unclassified	Regulation under CLM Act not required	-33.80499552	151.1450719
LANEVALE	Mobil Service Station	44 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89172416	150.9656537
LAURIETON	Camden Haven Tyre and Brake Centre (Former Caltex Service Station)	461 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.64367775	152.7977735
LAVENDER BAY	SRA Land	French STREET	Unclassified	Regulation under CLM Act not required	-33.84560621	151.2030148
LAVINGTON	Former Caltex Service Station	373-375 Wagga ROAD	Service Station	Regulation under CLM Act not required	-36.04797551	146.9385325
LAVINGTON	Caltex Service Station	436 Wagga (corner Dick Road) ROAD	Service Station	Regulation under CLM Act not required	-36.04500034	146.9444932
LAVINGTON	Former ERS liquid waste treatment and storage facility	819 Knights ROAD	Other Industry	Regulation under CLM Act not required	-36.06763885	146.942143
LEETON	Former Mobil Depot	108 Calrose STREET	Other Petroleum	Regulation under CLM Act not required	-34.55813326	146.3921296
LEETON	Caltex Service Station	1 Belah STREET	Service Station	Regulation under CLM Act not required	-34.55421752	146.3998431

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LEETON	Yenda Producers (formerly Initec) Leeton	1 - 2 Canal STREET	Other Petroleum	Regulation under CLM Act not required	-34.55184684	146.3862573
LEETON	Former Fuel Depot, Leeton	1-3 Short STREET	Other Petroleum	Regulation under CLM Act not required	-34.55253237	146.3864507
LEETON	United Leeton Service Station	110 Kurrajong AVENUE	Service Station	Regulation under CLM Act not required	-34.55573364	146.4099077
LEICHHARDT	SRA Land	10-11 Balmain ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.8776803	151.1591041
LEICHHARDT	Former Kolotex site	22 George STREET	Other Industry	Contamination currently regulated under CLM Act	-33.88855307	151.1482106
LEICHHARDT	Former Labekraft Site	30-40 George STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.88778798	151.1484773
LEICHHARDT	Leichhardt Bus Depot Area E	240 Balmain Road, corner City West LINK	Other Industry	Regulation under CLM Act not required	-33.87589727	151.1598073
LEICHHARDT	RailCorp Leichhardt	7 Darley ROAD	Other Industry	Regulation under CLM Act not required	-33.87520846	151.1539012
LENNOX HEAD	Former Caltex Lennox Head	Byron STREET	Service Station	Regulation under CLM Act not required	-28.79189328	153.5883225
LENNOX HEAD	Spoons Dip	13 Fig Tree Hill DRIVE	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.78258175	153.5752527
LEPPINGTON	Coles Express Leppington	1443 Camden Valley WAY	Service Station	Regulation under CLM Act not required	-33.96631609	150.8154793
LEUMEAH	Caltex Service Station	6 Rudd ROAD	Service Station	Regulation under CLM Act not required	-34.05398325	150.8299209
LEURA	Former Leura Garage	126-128 Leura MALL	Service Station	Regulation under CLM Act not required	-33.7125311	150.3315386
LIDCOMBE	Metro Lidcombe (former Liberty)	134 John STREET	Service Station	Contamination currently regulated under POEO Act	-33.85456019	151.0468136
LIDDELL	Liddell Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.37393962	150.9756283
LIDSDALE	Angus Place Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.35274573	150.0996773

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LIDSDALE	Kerosene Vale Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.38232515	150.0943561
LIGHTNING RIDGE	Former Ambulance Station	18 - 42 Pandora STREET	Other Industry	Regulation under CLM Act not required	-29.43133877	147.9812981
LIGHTNING RIDGE	Caltex Service Station	Onyx Street, corner Morilla STREET	Service Station	Regulation under CLM Act not required	-29.42922885	147.9747954
LILLIAN ROCK	Former 'Peters Dip' Cattle Tick Dip Site	477 Lillian Rock ROAD	Cattle Dip	Regulation under CLM Act not required	-28.5314327	153.1556392
LINDFIELD	7-Eleven (former Mobil) Service Station	238 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.7788603	151.1689594
LISAROW	OneSteel Recycling	902A Pacific HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.38420179	151.3655856
LISMORE	Caltex Lismore Service Station	136 Woodlark STREET	Service Station	Regulation under CLM Act not required	-28.80807597	153.2807591
LISMORE	Shell Coles Express Service Station	100 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.81140865	153.2800472
LISMORE	Former Shell Depot	116 Wilson STREET	Other Petroleum	Regulation under CLM Act not required	-28.81070081	153.2621577
LISMORE	Caltex Service Station	73-75 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.80894415	153.2809619
LISMORE	Lismore Gasworks	Cnr John Street & Keen STREET	Gasworks	Contamination formerly regulated under the CLM Act	-28.81764489	153.2710196
LISMORE	SRA Land	Norco LANE	Unclassified	Regulation under CLM Act not required	-28.810742	153.2702306
LISMORE HEIGHTS	Coles Express Lismore Heights	426 Ballina ROAD	Service Station	Contamination currently regulated under CLM Act	-28.81068067	153.3053065
LISMORE HEIGHTS	Impacted land, below Beardow Street landslide	22 New Ballina ROAD	Unclassified	Regulation under CLM Act not required	-28.80410458	153.2939349
LISMORE HEIGHTS	Roadside Embankment (Beardow Street)	Between Beardow and 22 New Ballina ROAD	Other Industry	Under assessment	-28.803605	153.293348
LITHGOW	Former Shell CVRO and Depot	77 Bridge Street and 6 Gas Works LANE	Other Petroleum	Regulation under CLM Act not required	-33.47995091	150.162216

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LITHGOW	Lithgow Thales	4 Martini PARADE	Metal Industry	Contamination formerly regulated under the CLM Act	-33.48988084	150.141366
LITHGOW	Former Mobil Depot	353 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.48235166	150.1383012
LITHGOW	Former Gasworks	Mort STREET	Gasworks	Regulation under CLM Act not required	-33.47995167	150.1635401
LITHGOW	Jasbe BP-branded Service Station (Former Reliance Petroleum)	1106 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.48426647	150.134992
LITHGOW	Caltex Lithgow (Quota Park)	Adjacent to 1131 Great Western HIGHWAY	Unclassified	Regulation under CLM Act not required	-33.47927554	150.1366238
LIVERPOOL	AC McGrath (Wholesale) Pty Ltd	20 Shepherd Street and 6A & 6B Atkinson STREET	Other Industry	Regulation under CLM Act not required	-33.9320192	150.9236862
LIVERPOOL	Former Car Park	4 - 6 Rose STREET	Unclassified	Regulation under CLM Act not required	-33.93258955	150.9157936
LIVERPOOL	Woolworths Service Station	59-67 Orange Grove ROAD	Service Station	Regulation under CLM Act not required	-33.90711248	150.9178855
LIVERPOOL	68 Speed Street (former gasworks)	2A Mill ROAD	Gasworks	Under assessment	-33.92992649	150.9224472
LOFTUS	BP Freedom Fuel Service Station Loftus	127 Loftus AVENUE	Service Station	Regulation under CLM Act not required	-34.04570765	151.0508004
LONG JETTY	Metro Petroleum Service Station Long Jetty	326 The Entrance ROAD	Service Station	Under assessment	-33.35897356	151.4847709
LONG JETTY	Caltex Service Station	431 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.36022468	151.4826553
LONG JETTY	Westside Petroleum Service Station	290-294 The Entrance ROAD	Service Station	Contamination currently regulated under CLM Act	-33.35686757	151.4861479
LONG JETTY	7-Eleven (former Mobil) Service Station	184-186 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.35089363	151.4924904
LONGUEVILLE	Caltex Service Station	5 Northwood ROAD	Service Station	Regulation under CLM Act not required	-33.82427366	151.1724497
LUCAS HEIGHTS	Harringtons Quarry	access from Little Forest ROAD	Landfill	Contamination currently regulated under CLM Act	-34.03555347	150.9751826

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LUCAS HEIGHTS	IWC landfill	Little Forest ROAD	Landfill	Contamination formerly regulated under the CLM Act	-34.03214889	150.9753474
LUDDENHAM	Caltex Service Station	3019-3035 The Northern ROAD	Service Station	Regulation under CLM Act not required	-33.87536093	150.6888872
MACKSVILLE	Caltex Service Station	Pacific (22-24 Cooper Street) HIGHWAY	Service Station	Regulation under CLM Act not required	-30.70977455	152.9198448
MACLEAN	Maclean Outdoors	255 River STREET	Service Station	Regulation under CLM Act not required	-29.45782683	153.1970725
MACQUARIE FIELDS	Caltex Service Station	68 Harold STREET	Service Station	Regulation under CLM Act not required	-33.98557276	150.8933681
MACQUARIE PARK	Caltex North Ryde Service Station	41-43 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.79138236	151.1312248
MACQUARIE PARK	1-7 Waterloo Road, Macquarie Park	1-7 Waterloo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.78806877	151.1332148
MACQUARIE PARK	Porters Creek Depot - Proposed Operations Centre Site	160 Wicks ROAD	Landfill	Regulation under CLM Act not required	-33.78581579	151.1367075
MACQUARIE PARK	De Burghs Cycleway - Lane Cove National Park	Riverside DRIVE	Other Petroleum	Regulation under CLM Act not required	-33.77668985	151.136542
MAITLAND	Maitland Gasworks	Charles STREET	Gasworks	Contamination currently regulated under CLM Act	-32.73603658	151.5578926
MAITLAND	Hannan and High Street	Hannan Street and High STREET	Service Station	Regulation under CLM Act not required	-32.72731682	151.5515673
MAITLAND	Coles Express Service Station	235 High STREET	Service Station	Regulation under CLM Act not required	-32.73923807	151.5620399
MALABAR	ANZAC Rifle Range former landfill	Franklin STREET	Landfill	Regulation being finalised	-33.95792671	151.2566373
MANDALONG	Mandalong Mine	Mandalong ROAD	Other Industry	Regulation under CLM Act not required	-33.11725583	151.4616432
MANGROVE MOUNTAIN	Poultry Litter Containment Pit site	258 Waratah ROAD	Unclassified	Regulation under CLM Act not required	-33.28917947	151.1672284
MANILLA	Tamworth Regional Council Works Depot - Manilla	73 River STREET	Other Petroleum	Regulation under CLM Act not required	-30.74879943	150.7181011

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MANLY	Caltex Service Station	86 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.79306889	151.2858638
MANLY	Open Space at end of Stuart Street (Lot 1 DP545297)	End of Stuart STREET	Gasworks	Regulation under CLM Act not required	-33.8078063	151.2898273
MANLY	St Patrick's Estate	151 Darley ROAD	Unclassified	Regulation under CLM Act not required	-33.8044568	151.2938595
MANLY	Former Little Manly Point Gasworks	Stuart STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8081596	151.287697
MANLY VALE	Caltex Service Station Manly Vale	236-238 Condamine STREET	Service Station	Regulation under CLM Act not required	-33.78508231	151.2674386
MANLY VALE	Former Landfill Addiscombe Road	Addiscombe ROAD	Landfill	Contamination currently regulated under CLM Act	-33.78307439	151.2747846
MANNERING PARK	Parkview General Store (a former service station)	2 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.14753814	151.5387832
MANNERING PARK	Mannering Park Mini Mart	70 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.15236501	151.5371767
MARAYONG	7-Eleven (former Mobil Blacktown West) Service Station Marayong	173 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75472796	150.8913605
MARAYONG	Woolworths Petrol Service Station Marayong	Corner Vardys Road and Turbo ROAD	Service Station	Regulation under CLM Act not required	-33.7452356	150.9041601
MARDI	Former Mardi Landfill	70-90 McPherson ROAD	Landfill	Regulation under CLM Act not required	-33.29273289	151.4100941
MARKS POINT	Former Mobil Service Station (now 7-Eleven)	770-772 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.05646268	151.6533795
MARKS POINT	Former Mobil Aviation Depot Belmont Airport	864 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.06657244	151.6497674
MAROUBRA	Coles Express Pagewood Service Station, Maroubra	299 Bunnerong PARADE	Service Station	Regulation under CLM Act not required	-33.94071282	151.2285063
MARRANGAROO	United (Former Mobil) Service Station Marrangaroo	394-398 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.45253322	150.1181023
MARRICKVILLE	Former Mobil Service Station	384 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91534969	151.1506717

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MARRICKVILLE	TRW Steering and Suspension	22-28 Carrington ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.92012667	151.1566181
MARRICKVILLE	Woolworths Petrol Service Station Marrickville	490 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91845177	151.1458951
MARRICKVILLE	RailCorp	361 Victoria ROAD	Other Industry	Regulation under CLM Act not required	-33.91404835	151.1557132
MARRICKVILLE	Mackey Park	Cnr Richardsons Crescent and Carrington ROAD	Landfill	Regulation under CLM Act not required	-33.9220263	151.1547903
MARRICKVILLE	Cooks River Aqueduct	Thornley STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.92224311	151.1479744
MARRICKVILLE	2 Carrington Road	2 Carrington ROAD	Unclassified	Regulation under CLM Act not required	-33.91567088	151.1589931
MARRICKVILLE	Former Dry Cleaners and Loading Dock	Smidmore STREET	Other Industry	Contamination currently regulated under CLM Act	-33.90752498	151.1717761
MARSDEN PARK	236 Grange Avenue	236 Grange AVENUE	Unclassified	Regulation under CLM Act not required	-33.70259609	150.83825
MARSFIELD	Coles Express Service Station Marsfield	189 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.77519246	151.1053691
MARULAN	BP Express Marulan (Northbound)	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.7188332	149.9949547
MARULAN	BP Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.71932066	150.0014827
MARYVILLE	7-Eleven Service Station	184-188 Hannell STREET	Service Station	Contamination currently regulated under CLM Act	-32.91336028	151.7579315
MASCOT	Former Zinc Smelter and Paint Manufacturing Facility	163 O'Riordan STREET	Metal Industry	Regulation under CLM Act not required	-33.92526513	151.1892582
MASCOT	Caltex Service Station	125 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.92309169	151.1911539
MASCOT	Mascot Pioneer Plating	25-29 Ricketty STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.92075288	151.1824801
MASCOT	Heritage Business Centre	5-9 Ricketty STREET	Unclassified	Regulation under CLM Act not required	-33.92029202	151.1816656

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MASCOT	Telstra Exchange	904-922 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9293166	151.1942777
MASCOT	Former Shell Service Station Mascot	746 Botany ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92352295	151.1955852
MASCOT	Former Freight Distribution Facility (now High-Density Residential / Commercial)	19-33 Kent ROAD	Unclassified	Regulation under CLM Act not required	-33.9227711	151.1854202
MASCOT	Former Mascot Galvanising	336-348 King STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.9290126	151.185874
MASCOT	Sokol Corporation	50-56 Robey STREET	Other Industry	Regulation under CLM Act not required	-33.93162265	151.1904955
MASCOT	Linear Park	Off O'Riordan STREET	Landfill	Regulation under CLM Act not required	-33.92278693	151.1904751
MATRAVILLE	Port Botany Bus Depot	7 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96880413	151.2255889
MATRAVILLE	Former Golden Fleece Terminal No2	151 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.95719404	151.2259884
MATRAVILLE	Former Rieco Incinerator	Kain AVENUE	Other Industry	Contamination being managed via the planning process (EP&A Act)	-33.95980534	151.2423679
MATRAVILLE	7-Eleven Service Station Matraville	515 Bunnerong ROAD	Service Station	Contamination currently regulated under CLM Act	-33.95943536	151.2317598
MATRAVILLE	Former Golden Fleece Terminal No1	133 -149 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.95776666	151.2248518
MATRAVILLE	Vacant Lot	3 Wilkes AVENUE	Other Industry	Regulation under CLM Act not required	-33.96006406	151.2431087
MATRAVILLE	Eastern Suburbs Memorial Park	12 Military ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9719906	151.2274386
MAYFIELD	7-Eleven (Former Mobil) Service Station	412-416 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.89292005	151.7300948
MAYFIELD	Shell Coles Express Service Station	63-69 Maud STREET	Service Station	Regulation under CLM Act not required	-32.89358962	151.7221298
MAYFIELD	BHP Closure Site (Hunter River Sediments)	Bed Sediments of the Hunter adjacent to Lot 221 DP1013964 RIVER	Metal Industry	Contamination formerly regulated under the CLM Act	-32.89203741	151.7646702

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MAYFIELD	Australian Tube Mills Newcastle Site	Industrial DRIVE	Metal Industry	Under assessment	-32.88835767	151.7450751
MAYFIELD	BHP Steel River	The Buffer Zone' extending directly adjacent to the Hunter River, near the Tourle Street Bridge STREET	Metal Industry	Contamination currently regulated under CLM Act	-32.8773556	151.7252427
MAYFIELD	Waratah Steel Mill	23 Frith STREET	Metal Industry	Regulation under CLM Act not required	-32.89426592	151.7257429
MAYFIELD	OneSteel (BHP)	Industrial DRIVE	Metal Industry	Contamination currently regulated under CLM Act	-32.88365878	151.7448793
MAYFIELD NORTH	Former BHP Steelworks (Closure site)	Bound by Hunter River, Selwyn Street & Industrial DRIVE	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.89436064	151.7590762
MAYFIELD NORTH	OneSteel - Newcastle Wire, Rod and Bar Mills	141 & 151 Ingall STREET	Metal Industry	Under assessment	-32.89008485	151.752949
MAYFIELD NORTH	Former BHPB Supply site	Industrial DRIVE	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.88583061	151.7386157
MAYFIELD WEST	Stevenson Park landfill	2/559 Maitland ROAD	Landfill	Regulation under CLM Act not required	-32.88472556	151.7224791
MAYFIELD WEST	Koppers Coal Tar	East of Woodstock Street and Tourle STREET	Other Industry	Contamination currently regulated under POEO Act	-32.88592437	151.7361839
MAYFIELD WEST	Tourle Street Bridge Project	Tourle STREET	Landfill	Regulation under CLM Act not required	-32.88075518	151.7330073
MCDUGALLS HILL	Caltex Service Station	4949 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.54484714	151.1490757
MEADOWBANK	Former Council Works Depot	2 Parsonage STREET	Unclassified	Regulation under CLM Act not required	-33.82191421	151.0951974
MENAI	7-Eleven (Former Mobil) Service Station Menai	289 Menai ROAD	Service Station	Regulation under CLM Act not required	-34.01579095	151.0131737
MENAI	Caltex Service Station Menai	1 Carter Road ROAD	Service Station	Regulation under CLM Act not required	-34.01654043	151.0124133
MEREWETHER	Merewether Childcare Centre	2/23 Caldwell STREET	Unclassified	Regulation under CLM Act not required	-32.94249653	151.7504279
MERIMBULA	Caltex Service Station	19-25 Merimbula DRIVE	Service Station	Regulation under CLM Act not required	-36.88757881	149.9089159

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MERIMBULA	Former Mobil Service Station	27 Market STREET	Service Station	Regulation under CLM Act not required	-36.88941693	149.9103485
MERRYLANDS	Former Timber Yard and Hardware	11-19 Centenary ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83083025	150.9698915
MERRYLANDS	Caltex Service Station	229 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.84547463	150.986413
MERRYLANDS	Caltex Service Station Merrylands	148 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.83818499	150.9997199
MERRYLANDS	Stockland Merrylands Court	249-259 Merrylands ROAD	Service Station	Regulation under CLM Act not required	-33.83560037	150.9869735
MERRYLANDS	7-Eleven Merrylands Service Station	295-297 Merrylands Road, corner Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.83533205	150.9851801
MERRYLANDS	Former Stockfeed Manufacturing Site	1-7 & 9-11 Neil STREET	Other Petroleum	Regulation under CLM Act not required	-33.8390257	150.9947449
MERRYLANDS WEST	Former Mobil Service Station	3 Centenary ROAD	Service Station	Regulation under CLM Act not required	-33.83214226	150.9698958
MILLER	Caltex Service Station	86 Cartwright AVENUE	Service Station	Regulation under CLM Act not required	-33.91878146	150.8827514
MILLERS FOREST	Chichester Trunk Gravity Main	water pipeline	Other Industry	Contamination currently regulated under POEO Act	-32.772877	151.6826841
MILLERS POINT	Former AGL Gasworks	30 - 34 Hickson ROAD	Gasworks	Regulation under CLM Act not required	-33.86179594	151.2031726
MILLERS POINT	Moore's Wharf UPSS	4 Towns PLACE	Other Petroleum	Regulation under CLM Act not required	-33.85581123	151.2024759
MILLERS POINT	Former AGL Gasworks	38 Hickson and road reserve ROAD	Gasworks	Contamination being managed via the planning process (EP&A Act)	-33.86280104	151.2032452
MILLERS POINT	Former AGL Gasworks	Berths 5, 6 and 7 (already demolished) and part Hickson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.86239771	151.2024819
MILLERS POINT	Former AGL Gasworks 36 Hickson Road	36 Hickson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.86243824	151.2032514
MILPERRA	Heatcraft Australia Pty Ltd	286 Horsley ROAD	Other Industry	Regulation under CLM Act not required	-33.94031556	150.9958606

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MILPERRA	United Group Rail Pty Limited	373 Horsley ROAD	Landfill	Regulation under CLM Act not required	-33.93286283	150.9934071
MILPERRA	Caltex Service Station	264 Milperra ROAD	Service Station	Regulation under CLM Act not required	-33.93018101	150.9910964
MILPERRA	Former Landfill	479 Henry Lawson DRIVE	Landfill	Regulation under CLM Act not required	-33.93394617	150.9776715
MILTON	Former Sanitary Depot	Slaughterhouse ROAD	Other Industry	Regulation under CLM Act not required	-35.33819825	150.4471917
MILTON	Caltex Milton Service Station and Depot	331 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.33154474	150.4492852
MINCHINSBURY	7-Eleven (former Mobil) Service Station	815 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78812909	150.8495992
MINCHINSBURY	BP Service Station	1055 Great Western Highway corner Archbold ROAD	Service Station	Regulation under CLM Act not required	-33.78211857	150.8244185
MINTO	Land adjacent to Former Shell depot	Aldrds Road and Essex STREET	Other Petroleum	Regulation under CLM Act not required	-34.02140447	150.8415134
MINTO	Shell Coles Express Service Station	73 Pembroke STREET	Service Station	Regulation under CLM Act not required	-34.02316454	150.8503118
MINTO	Former Endeavour Energy Depot	Pembroke ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0408973	150.8451837
MINTO	Logistics Hub - Culverston Road, Minto	Culverston ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0421711	150.833825
MIRANDA	Woolworths Service Station	455 Kingsway OTHER	Service Station	Contamination currently regulated under CLM Act	-34.03492814	151.1124681
MITTAGONG	Enhance (former Coles Express) Service Station	224 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.44746118	150.4326183
MITTAGONG	Lots 1 and 2 Alfred St.	Alfred STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.44738105	150.4565159
MITTAGONG	Caltex Mittagong Service Station	65 Bowral ROAD	Service Station	Regulation under CLM Act not required	-34.45245915	150.4381291
MOAMA	Caltex Moama Service Station	73 Meninya (Cnr Regent St) STREET	Service Station	Regulation under CLM Act not required	-36.10815134	144.752849

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOOLONG	Cabonne BP Service Station	2 Gidley STREET	Service Station	Contamination currently regulated under CLM Act	-33.09026307	148.8695809
MOOLONG	Former Gasworks	Hill STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.09074595	148.8703262
MONA VALE	Mona Vale Bus Depot	58 Darley STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.67452414	151.3074246
MONA VALE	Former Caltex service station and adjacent properties	79 Barrenjoey Road, 2 Polo Avenue, 6 Polo Avenue, 45 Bassett STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.6743659	151.3096932
MONA VALE	7-Eleven (former Mobil) Service Station	24 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.676909	151.3082515
MONA VALE	BP Peninsula Express Service Station	Corner Barrenjoey Road and Darley Street East STREET	Service Station	Regulation under CLM Act not required	-33.67670799	151.3090068
MONA VALE	BP Service Station Mona Vale	1721 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.68043443	151.3023533
MONA VALE	Caltex Investigation Area	Polo Ave, Perak STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.67431333	151.3091148
MONA VALE	Taronga Place Mona Vale properties	Taronga PLACE	Other Petroleum	Contamination currently regulated under CLM Act	-33.67422848	151.3066972
MOOBALL	Mooball General Store	5913 Tweed Valley WAY	Service Station	Regulation under CLM Act not required	-28.44204594	153.4887648
MOONBI	Caltex Moonbi Service Station	New England HIGHWAY	Service Station	Regulation under CLM Act not required	-31.02264369	151.060094
MOORE PARK	Area 2, Moore Park	Driver AVENUE	Unclassified	Regulation under CLM Act not required	-33.89426868	151.2226839
MOOREBANK	Caltex Service Station	216 Newbridge ROAD	Service Station	Regulation under CLM Act not required	-33.92930835	150.9551469
MOOREBANK	Joyce Foam Products	5-9 Bridges ROAD	Chemical Industry	Regulation under CLM Act not required	-33.92596302	150.9335273
MOOREBANK	ABB Australia Pty Ltd	(a) 1 Bapaume ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.94143741	150.9208754
MOOREBANK	Caltex Service Station Moorebank	2 Bridges ROAD	Service Station	Regulation under CLM Act not required	-33.92839682	150.9327012

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOOREBANK	Former Concrete Recyclers property, Newbridge Road, Moorebank	Newbridge ROAD	Landfill	Contamination being managed via the planning process (EP&A Act)	-33.9390295	150.9653979
MOORLAND	Caltex Service Station	99 Jericho ROAD	Service Station	Regulation under CLM Act not required	-31.79436622	152.6514849
MOREE	Former Freedom Service Station Site Moree	1 Dover STREET	Service Station	Contamination currently regulated under CLM Act	-29.4715814	149.8440279
MOREE	Caltex Depot	101 Gosport STREET	Other Petroleum	Regulation under CLM Act not required	-29.47603684	149.8476728
MOREE	Former Golden Fleece Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47698315	149.8477108
MOREE	Former Mobil Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47771921	149.8478438
MOREE	Moree Airport Evaporation Pond	Newell HIGHWAY	Unclassified	Regulation under CLM Act not required	-29.50289837	149.8411301
MOREE	Caltex Service Station	54 Alice STREET	Service Station	Contamination currently regulated under CLM Act	-29.47158492	149.8433182
MOREE	Former Shell Depot	Adelaide STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47655335	149.8465698
MOREE	Shell Coles Express Service Station	Corner Gwydir and Ballo STREET	Service Station	Regulation under CLM Act not required	-29.46081826	149.8415975
MOREE	BP Truckstop and Depot Moree	Newell Highway - 423 Frome STREET	Service Station	Regulation under CLM Act not required	-29.48223274	149.8463679
MOREE	Sunnyside Road	Sunnyside ROAD	Unclassified	Regulation under CLM Act not required	-29.45652718	149.8226682
MORISSET	Railcorp Station Masters Cottage	24 Dora STREET	Unclassified	Regulation under CLM Act not required	-33.10849681	151.4680317
MORISSET	Morisset High School	Bridge STREET	Unclassified	Regulation under CLM Act not required	-33.10475221	151.4866482
MORPETH	Telstra Cable Installation and RTA Bridge work	Northumberland STREET	Other Petroleum	Regulation under CLM Act not required	-32.72489729	151.6266795
MORPETH	Former Service Station	Swan STREET	Service Station	Regulation under CLM Act not required	-32.72477413	151.6250642

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MORTLAKE	Former Petroleum Storage Site	108-116 Tennyson ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83979033	151.1064889
MORTLAKE	Kendall Bay Sediments	Kendall BAY	Gasworks	Contamination currently regulated under CLM Act	-33.83905999	151.1120458
MORTLAKE	Former AGL site	Tennyson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.84287407	151.1109313
MORTLAKE	Majors Bay Redevelopment	14-22 Hilly STREET	Other Industry	Regulation under CLM Act not required	-33.83954617	151.1054674
MORUYA	Former Fuel Depot Moruya	11 to 13 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-35.9112243	150.0826475
MORUYA	Caltex Service Station Moruya	80-84 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.91195596	150.0824213
MORUYA	Caltex Service Station	26 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.9104985	150.0711419
MOSMAN	7-Eleven Mosman	162A Spit Road Corner Mitchell ROAD	Service Station	Regulation under CLM Act not required	-33.81747016	151.2433633
MOSMAN	BP Service Station	175 Ourimbah ROAD	Service Station	Regulation under CLM Act not required	-33.82106757	151.233291
MOSMAN	7-Eleven Service Station Mosman	45 Spit ROAD	Service Station	Regulation under CLM Act not required	-33.82302718	151.2435627
MOSMAN	Allan Border Oval	Myahgan ROAD	Landfill	Regulation under CLM Act not required	-33.82681534	151.2417712
MOSS VALE	Woolworths Service Station Moss Vale	609 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55409411	150.3609797
MOSS VALE	Coles Express Service Station	579 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55313422	150.364684
MOSS VALE	Moss Vale Refuelling Facility	Lackey ROAD	Other Petroleum	Regulation under CLM Act not required	-34.54662421	150.3721525
MOUNT ANNAN	Woolworths Caltex Mount Annan	157 Narellan (Corner Smeaton Grange Road) ROAD	Service Station	Regulation under CLM Act not required	-34.04685527	150.7610434
MOUNT ANNAN	Great Southern Railways Aqueduct	Off Narellan ROAD	Unclassified	Regulation under CLM Act not required	-34.07308479	150.7707436

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MOUNT COLAH	Caltex Service Station Mount Colah	603 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.67034662	151.1151861
MOUNT COLAH	Foxglove Oval	Foxglove ROAD	Landfill	Contamination currently regulated under CLM Act	-33.65829855	151.1229638
MOUNT DRIUITT	Caltex (former Mobil) Service Station, 17 Mount Street, Mount Druitt	17 Mount STREET	Service Station	Regulation under CLM Act not required	-33.76567994	150.8244544
MOUNT HUTTON	Woolworths Service Station	46 Wilsons ROAD	Service Station	Regulation under CLM Act not required	-32.9836378	151.67309
MOUNT PRITCHARD	7-Eleven Service Station	352 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.90260656	150.8963326
MOUNT THORLEY	Bulga Surface Operations	Broke ROAD	Other Industry	Regulation under CLM Act not required	-32.68325751	151.1206158
MOUNT THORLEY	Lowes Petroleum (Former BP) Depot Mount Thorley	74 Mount Thorley ROAD	Other Petroleum	Regulation under CLM Act not required	-32.62443074	151.1025122
MOUNT VICTORIA	Former Mobil Service Station	81 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.5889727	150.2511783
MOUNT VICTORIA	Caltex Service Station	36a Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.58436517	150.2465528
MUDGEES	Caltex Service Station	114-116 Church STREET	Service Station	Regulation under CLM Act not required	-32.59428029	149.5876199
MUDGEES	Shell Coles Express Service Station	47 Church STREET	Service Station	Regulation under CLM Act not required	-32.59347493	149.5884623
MUDGEES	BP Service Station Mudgee	77 Church STREET	Service Station	Regulation under CLM Act not required	-32.59545872	149.588123
MUDGEES	Mobil Depot	47 Dourro STREET	Other Petroleum	Contamination currently regulated under CLM Act	-32.60023979	149.5823448
MUDGEES	Mudgee Gasworks	Mortimer Street and Court STREET	Gasworks	Regulation under CLM Act not required	-32.59168859	149.5817705
MUDGEES	Former Essential Energy Depot	27-31 Inglis STREET	Other Industry	Regulation under CLM Act not required	-32.60076552	149.5858905
MUDGEES	Former Caltex Depot Mudgee	cnr Nicholson Street & Atkinson STREET	Other Petroleum	Regulation under CLM Act not required	-32.60125298	149.5851398

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MULGRAVE	7-Eleven (former Mobil) Service Station	Corner Windsor Road and Mulgrave ROAD	Service Station	Regulation under CLM Act not required	-33.61687781	150.8341809
MULLUMBIMBY	Station Street, Mullumbimby NSW 2482	Station STREET	Other Industry	Under assessment	-28.549684	153.503695
MULWALA	Mulwala ADI Explosives Factory	Bayly STREET	Other Industry	Regulation under CLM Act not required	-35.97572689	145.9809786
MURWILLUMBAH	Murwillumbah Ambulance Depot	27 Queen STREET	Other Petroleum	Regulation under CLM Act not required	-28.32552576	153.4000182
MURWILLUMBAH SOUTH	Puma Murwillumbah (formerly Matilda)	182 Tweed Valley WAY	Service Station	Contamination currently regulated under CLM Act	-28.3263681	153.4103824
MURWILLUMBAH SOUTH	Former Norco Butter Factory (Eastern Portion)	230 Tweed Valley WAY	Other Petroleum	Regulation under CLM Act not required	-28.32791359	153.4073052
MUSWELLBROOK	Former Caltex Depot	1 Lower William STREET	Other Petroleum	Regulation under CLM Act not required	-32.26614257	150.8865136
MUSWELLBROOK	Vacant Rail Land	27 Brook STREET	Unclassified	Regulation under CLM Act not required	-32.26346086	150.8873181
MUSWELLBROOK	United Branded (Former Mobil) Service Station Muswellbrook	49-51 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27218162	150.8900206
MUSWELLBROOK	Former Mobil Depot Muswellbrook	43-51 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-32.2599725	150.887573
MUSWELLBROOK	Woolworths Petrol	72 Brook STREET	Service Station	Regulation under CLM Act not required	-32.26325377	150.8905966
MUSWELLBROOK	Caltex Muswellbrook Service Station	84-86 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27793094	150.8980938
MUSWELLBROOK	Former Gasworks	Corner Carl Street and Foley STREET	Gasworks	Regulation under CLM Act not required	-32.26672337	150.8935982
MUSWELLBROOK	Bayswater Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.3954046	150.9502683
MUSWELLBROOK	Former Industrial Site	Lot 89 Rathmore STREET	Other Industry	Regulation under CLM Act not required	-32.30544071	150.8823657
MUSWELLBROOK	Caltex Service Station	12-16 Sydney STREET	Service Station	Regulation under CLM Act not required	-32.26785559	150.8879601

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MUSWELLBROOK	Former Caltex Depot	47-50 Victoria STREET	Service Station	Regulation under CLM Act not required	-32.26788823	150.8930609
MUSWELLBROOK	Former Pit Top No. 1 Colliery Muswellbrook Coal	Corner Clendinning Street and Victoria STREET	Other Industry	Regulation under CLM Act not required	-32.27031992	150.9009881
NABIAL	Caltex Service Station Nabial	3964 Wallanbah (Cnr Wallanbah Rd and Pacific Hwy) ROAD	Service Station	Regulation under CLM Act not required	-32.03864883	152.3754346
NAMBUCCA HEADS	Former Mobil Service Station	6 Bowra STREET	Service Station	Regulation under CLM Act not required	-30.64282127	153.0035884
NARELLAN	Caltex Service Station Narellan	1 George Hunter DRIVE	Service Station	Regulation under CLM Act not required	-34.03963992	150.7432386
NARELLAN	Former Landfill	1 Elyard STREET	Landfill	Regulation under CLM Act not required	-34.043474	150.7393256
NAROOMA	Narooma Service Station	60 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-36.21617955	150.126261
NAROOMA	Former Caltex - Narooma	82 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-36.21711766	150.1279305
NARRABEEN	Caltex Service Station	1509-1511 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70455756	151.2969352
NARRABEEN	Shell Coles Express Service Station	1418 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70013931	151.3002782
NARRABEEN	Narrabeen Shotgun Range Sydney Academy of Sport	Wakehurst PARKWAY	Unclassified	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.72138423	151.2642798
NARRABEEN	7-Eleven Service Station	1234 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.71958892	151.298272
NARRABRI	Caltex Service Station	13 Doyle STREET	Service Station	Regulation under CLM Act not required	-30.3239182	149.7843052
NARRABRI	Lowes Petroleum (Former Mobil) Narrabri Depot	3 Old Gunnedah ROAD	Other Petroleum	Regulation under CLM Act not required	-30.33473586	149.789587
NARRABRI	Caltex Service Station	31-35 Cooma ROAD	Service Station	Regulation under CLM Act not required	-30.33968576	149.7657241
NARRABRI	Caltex Narrabri Service Station	31 Dangar (Cnr Anne and Dangar) STREET	Service Station	Regulation under CLM Act not required	-30.32989667	149.7756598

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NARRABRI	Caltex Service Station	12 Reid STREET	Other Petroleum	Regulation under CLM Act not required	-30.32282764	149.7901182
NARRABRI	Cargill Soapstock Disposal Site	Westport ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-30.4698458	149.6981931
NARRABRI	Caltex Service Station	7-13 James STREET	Service Station	Regulation under CLM Act not required	-30.33016168	149.7940732
NARRANDERA	Former Mobil Narrandera Depot	24 Whitton STREET	Other Petroleum	Regulation under CLM Act not required	-34.7410523	146.5620667
NARRANDERA	Former Mobil Emoleum Narrandera Depot	5-7 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-34.74105391	146.5628144
NARROMINE	Narromine Fuel (Former Caltex) Service Station	Cnr Burraway Street and Algalah STREET	Service Station	Regulation under CLM Act not required	-32.23565321	148.2454259
NELLIGEN	Former Clay Target Shooting Range	1398 Kings Highway and adjoining land on Old Bolaro Mountain ROAD	Unclassified	Contamination currently regulated under CLM Act	-35.64892469	150.0952224
NELLIGEN	Lot 2 Old Bolaro Road	Old Bolaro ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-35.64485609	150.0937341
NELSON BAY	Shell Coles Express Service Station	25 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72265762	152.1437317
NELSON BAY	Former Caltex Service Station Nelson Bay	38 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72335662	152.1429384
NEMINGHA	Caltex Service Station and Depot Nemingha	428 Armidale (previously 16 New England Highway) ROAD	Service Station	Regulation under CLM Act not required	-31.12425169	150.9909054
NEUTRAL BAY	Caltex Service Station	16-38 Military ROAD	Service Station	Regulation under CLM Act not required	-33.82907162	151.2163342
NEUTRAL BAY	Shell Coles Express Service Station	200-204 Ben Boyd ROAD	Service Station	Regulation under CLM Act not required	-33.82915781	151.219437
NEW LAMBTON	Caltex Service Station New Lambton	144 Bridges ROAD	Service Station	Regulation under CLM Act not required	-32.93283668	151.7141748
NEW LAMBTON	BP Service Station	105 St James ROAD	Service Station	Regulation under CLM Act not required	-32.92910325	151.7155801
NEW LAMBTON	7-Eleven (former Mobil) Service Station	291 Turton ROAD	Service Station	Regulation under CLM Act not required	-32.91773864	151.7243096

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NEWCASTLE	Reclaimed Land	26-28 Honeysuckle DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-32.92604705	151.7649508
NEWCASTLE	Wharf Road Newcastle Car Park	313-317 Wharf ROAD	Unclassified	Regulation under CLM Act not required	-32.92570385	151.7744076
NEWCASTLE	Newcastle Foreshore	40 Stevenson Place STREET	Other Industry	Regulation under CLM Act not required	-32.92556503	151.7876742
NEWCASTLE	SRA Land	Scott STREET	Gasworks	Regulation under CLM Act not required	-32.92641425	151.7837817
NEWCASTLE WEST	Former Mobil Service Station	113 Parry STREET	Service Station	Regulation under CLM Act not required	-32.92560628	151.7558542
NEWPORT	7-Eleven (former Mobil) Service Station	307 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65632902	151.3182089
NEWPORT	Former Caltex Service Station Newport	316-324 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65634516	151.3191571
NEWTOWN	Caltex Service Station Newtown	26 - 36 Enmore ROAD	Service Station	Regulation under CLM Act not required	-33.89851331	151.17714
NEWTOWN	Former Service Station	81 Wilson STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.89626791	151.1827556
NEWTOWN	Aluminium Enterprises	66 Brocks LANE	Metal industry	Contamination was addressed via the planning process (EP&A Act)	-33.89467126	151.1847528
NEWTOWN	Adjacent to Former Service Station	79 Wilson STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.89630155	151.1826567
NORAVILLE	Former Toukley Landfill	Wilfred Barrett DRIVE	Landfill	Regulation under CLM Act not required	-33.27734185	151.5537784
NORTH ALBURY	Caltex Service Station and Diesel Stop	79 Union ROAD	Service Station	Regulation under CLM Act not required	-36.05496713	146.9487635
NORTH BOAMBEE VALLEY	Caltex Service Station	Cnr Pacific Hwy & Halls ROAD	Service Station	Regulation under CLM Act not required	-30.30639482	153.1007996
NORTH BONDI	Caltex Service Station North Bondi	321 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.88463526	151.268551
NORTH NARRABEEN	7-Eleven Service Station	1501-1503 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70749859	151.296351

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NORTH RICHMOND	Caltex Service Station	50 Bells Line Of ROAD	Service Station	Regulation under CLM Act not required	-33.57991338	150.7202346
NORTH ROCKS	7-Eleven Service Station North Rocks	340 North Rocks ROAD	Service Station	Regulation under CLM Act not required	-33.76895144	151.0305952
NORTH ST MARYS	BP Service Station	76 Glossop STREET	Service Station	Regulation under CLM Act not required	-33.76020183	150.7818149
NORTH STRATHFIELD	Budget Service Station	143 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.85945248	151.0977853
NORTH STRATHFIELD	Former Caltex Service Station	92a Concord ROAD	Service Station	Regulation under CLM Act not required	-33.86244297	151.0932434
NORTH SYDNEY	Iora Complex	1 Kiara PLACE	Gasworks	Regulation under CLM Act not required	-33.843145	151.2161142
NORTH SYDNEY	Neutral Bay Sediments	Adjacent to Sub Base Platypus, High STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.842724	151.2174523
NORTH SYDNEY	Sub Base Platypus (previously HMAS Platypus)	High STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.84325935	151.2170347
NORTH WOLLONGONG	Former Mobil Depot	122-126 Montague STREET	Other Petroleum	Regulation under CLM Act not required	-34.40988259	150.8939374
NORTHMEAD	Former Prestige Plastics	1C Redbank ROAD	Other Industry	Regulation under CLM Act not required	-33.79716925	150.988926
NORTHMEAD	Coles Express Service Station Northmead	197 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.77741733	151.0001719
NORTHMEAD	Sydney Water Land	51c Hammers ROAD	Landfill	Regulation under CLM Act not required	-33.7887535	150.9858088
NORTHMEAD	Caltex Service Station	98-100 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.78786563	150.9945909
NORTHMEAD	7-Eleven Service Station Northmead	56 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.79090731	150.9967332
NOWRA	Former Gasworks Managers Residence	24 Osborne STREET	Gasworks	Regulation under CLM Act not required	-34.8708875	150.5992586
NOWRA	Fire Station	69 Bridge ROAD	Gasworks	Regulation under CLM Act not required	-34.87081582	150.6004881

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NOWRA	Historically Filled Land	70 Bridge ROAD	Unclassified	Regulation under CLM Act not required	-34.87081809	150.6013231
NOWRA	Shell Coles Express Service Station	55 Kinghorne STREET	Service Station	Regulation under CLM Act not required	-34.87633757	150.6023481
NOWRA	Former gasworks	Lamonds LANE	Gasworks	Contamination currently regulated under CLM Act	-34.87111182	150.6000803
NOWRA	Former Hollingworth Scrap Yard	73-74 Jervis and 117 East STREET	Other Industry	Regulation under CLM Act not required	-34.88324216	150.6034361
NOWRA	Woolworths Service Station	60 North Street STREET	Service Station	Regulation under CLM Act not required	-34.87266278	150.6014052
NOWRA	Harry Sawkins Park	Bounded by Princes Hwy, Graham St & McGrath AVENUE	Gasworks	Regulation under CLM Act not required	-34.87093993	150.6037157
NOWRA EAST	Mobil Service Station	Lot 3 Kalandar STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.88850535	150.6093504
NYNGAN	Caltex Service Station	39-41 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56101006	147.1914997
NYNGAN	Caltex Service Station	126 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56482841	147.2002892
OAK FLATS	Shellharbour City Works Depot	132 Industrial ROAD	Other Industry	Regulation under CLM Act not required	-34.56546013	150.8087225
OBERON	Caltex Service Station and Depot	Lowes Mount ROAD	Service Station	Regulation under CLM Act not required	-33.69500055	149.8570553
OBERON	Oberon Timber Complex	Lowes Mount ROAD	Other Industry	Regulation under CLM Act not required	-33.69264862	149.8564588
OBERON	Former Shell Depot	32 O'Connell ROAD	Other Petroleum	Regulation under CLM Act not required	-33.6997172	149.8450057
OBERON	CSR Ltd Property and King's Stockyard Creek	Off Endeavour STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.6922152	149.8686909
OCEAN SHORES	Former Ocean Shores Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-28.51270299	153.5301496
OLD GUILDFORD	Caltex Service Station	636-644 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.86670857	150.9879189

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ORANGE	Former Fuel Depot	24-28 Pelsley STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.29624293	149.1017277
ORANGE	Caltex Orange Depot	184 Byng STREET	Service Station	Regulation under CLM Act not required	-33.28285589	149.1050273
ORANGE	Woolworths Orange Service Station	357-361 Summer Street, corner William STREET	Service Station	Regulation under CLM Act not required	-33.28445811	149.1053604
ORANGE	BP Orange Service Station (Reliance Petroleum)	81 Summer STREET	Service Station	Regulation under CLM Act not required	-33.2825884	149.0951535
ORANGE	BP-Branded Lowes Petroleum Depot	197 - 201 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-33.27145977	149.1078103
ORANGE	Caltex Summer Street Service Station Orange	70-74 Summer Street, corner Hill STREET	Service Station	Regulation under CLM Act not required	-33.28311722	149.0940712
ORANGE	Lowes Petroleum (BP-branded) Service Station	76 Pelsley STREET	Service Station	Regulation under CLM Act not required	-33.29025034	149.1027194
ORANGE	Former Mobil Service Station	24-28 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.2866912	149.1066505
ORANGE	BP (Reliance Petroleum) Service Station Orange	56-60 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.28980053	149.1086212
ORANGE	Former Mobil Service Station	168 Pelsley STREET	Service Station	Regulation under CLM Act not required	-33.28525478	149.1037259
ORANGE	5-7 Edward St Orange	5-7 Edward STREET	Other Industry	Contamination currently regulated under CLM Act	-33.2991077	149.1034092
OURIMBAH	Palmdale Service Centre Pty Ltd	3130 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3381336	151.374586
OURIMBAH	United Ourimbah	51 Pacific HIGHWAY	Service Station	Under assessment	-33.36025941	151.3694483
OURIMBAH	Shell Coles Express Service Station	78-80 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3468202	151.3710098
OXLEY VALE	Hayes Transport Services	10 Manilla ROAD	Other Petroleum	Regulation under CLM Act not required	-31.06991417	150.9101381
OYSTER BAY	Shell Coles Express Service Station	20 Carvers ROAD	Service Station	Contamination currently regulated under CLM Act	-34.00934475	151.0758626

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
OYSTER COVE	Cove Marine Pty Ltd	60 Frederick STREET	Unclassified	Contamination currently regulated under POEO Act	-32.73549959	151.952446
PADDINGTON	7-Eleven Service Station	59 Oxford STREET	Service Station	Contamination currently regulated under CLM Act	-33.88322921	151.2205024
PADDINGTON	Former Workshop	52 Hopewell STREET	Other Industry	Regulation under CLM Act not required	-33.88195798	151.2220744
PADSTOW	Caltex Padstow	115 Fairford ROAD	Service Station	Regulation under CLM Act not required	-33.9434571	151.0345671
PADSTOW	Selleys / Dulux	1-29 Gow STREET	Chemical Industry	Regulation under CLM Act not required	-33.93904125	151.0381725
PADSTOW	Former Exide Battery Manufacturing & Recycling	55 Bryant STREET	Other Industry	Contamination currently regulated under CLM Act	-33.94265241	151.0378986
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	Contamination currently regulated under POEO Act	-33.93808679	151.0346862
PADSTOW	Fosco Australia	7 Stuart STREET	Chemical Industry	Regulation under CLM Act not required	-33.94342957	151.0377316
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	Regulation under CLM Act not required	-33.93606752	151.0322057
PAGEWOOD	Former Email Site	Corner of Page Street and Holloway STREET	Metal industry	Contamination currently regulated under CLM Act	-33.94302462	151.2132036
PAMBULA	Offsite area (roadways) adjacent to United Service Station Pambula (former Shell)	Corner Quondola Street and Bullara STREET	Service Station	Regulation under CLM Act not required	-36.93104481	149.8746763
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13317454	148.173643
PARKES	Former Caltex Parkes (Mugincoble) Depot - Eugowra Rd, Mugincoble	Eugowra ROAD	Service Station	Regulation under CLM Act not required	-33.19007031	148.224822
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	Regulation under CLM Act not required	-33.14309226	148.1710282
PARKES	Former BP Telescope Service Station	339-341 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13216152	148.1743239
PARKES	BP Reliance East End Service Station Parkes	46 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.14243539	148.1846227

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PARKES	Former Parkes Gas Works (including Rail Corridor and offsite land)	129 Woodward Street and land within the Parkes railway CORRIDOR	Gasworks	Contamination currently regulated under CLM Act	-33.14480316	148.1844397
PARKLEA	Caltex Parklea Service Station	Old Windsor (north of Miami Street) ROAD	Service Station	Regulation under CLM Act not required	-33.72427108	150.9388531
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	Regulation under CLM Act not required	-33.80498714	151.0056151
PARRAMATTA	Coleman Oval Embankment	Cnr of PITT STREET and Macquarie STREET	Unclassified	Regulation under CLM Act not required	-33.80441625	150.9954841
PARRAMATTA	7-Eleven (former Mobil) Service Station	81 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80919769	151.0142894
PARRAMATTA	Parramatta Park Toilet Block Demolition	The Crescent Toilet Block Parramatta PARK	Unclassified	Regulation under CLM Act not required	-33.81054034	150.9961968
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	Regulation under CLM Act not required	-36.57657408	148.6624998
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	Regulation under CLM Act not required	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills West	386 Pennant Hills ROAD	Service Station	Contamination currently regulated under CLM Act	-33.73928611	151.0679704
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	Regulation under CLM Act not required	-33.73497514	150.6954097
PENRITH	7-Eleven (former Mobil) Service Station	212-222 Andrews ROAD	Service Station	Regulation under CLM Act not required	-33.73059678	150.6952571
PENRITH	Lowes Petroleum (Former Mobil) Depot Penrith	174 Coreen AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.74484268	150.6980504
PENRITH	Caltex Service Station	Castlereagh Rd Cnr Lugard STREET	Service Station	Regulation under CLM Act not required	-33.73426843	150.6933382
PENRITH	BP Express Service Station	Corner Coreen Avenue and Castlereagh ROAD	Service Station	Regulation under CLM Act not required	-33.74385498	150.6925743
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.73734959	150.696442
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET	Service Station	Regulation under CLM Act not required	-33.75408799	150.7045594

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PENRITH	Caltex Penrith Service Station	153 Coreen AVENUE	Service Station	Regulation under CLM Act not required	-33.74287244	150.6927071
PENRITH	Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Unclassified	Regulation under CLM Act not required	-33.75231953	150.6964541
PENRITH	Former Dry Cleaners	Shop 3, 134-138 Henry STREET	Other Industry	Regulation under CLM Act not required	-33.75231953	150.6964541
PENSHURST	7-Eleven Service Station	612 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.96153533	151.0793525
PENSHURST	Caltex Service Station	641 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.95985335	151.0891118
PERISHER VALLEY	Perisher Centre Loading Dock	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.40392862	148.4111593
PERISHER VALLEY	Perisher Ski Resort	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.41106374	148.4005469
PETERSHAM	Fanny Durack Aquatic Centre	Station STREET	Unclassified	Regulation under CLM Act not required	-33.89194583	151.151824
PHEASANTS NEST	7-Eleven Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28291571	150.6394606
PHEASANTS NEST	7-Eleven (former Mobil) Service Station	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28303112	150.6363145
PICTON	Coles Express Picton	93-99 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16844937	150.6114236
PICTON	McDonalds	69-71 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16711877	150.6121524
PITT TOWN	Whites Water Service	1 Canning PLACE	Other Industry	Under preliminary investigation order	-33.57418268	150.8811385
PLUMPTON	Woolworths Service Station Plumpton (Plumpton Marketplace Shops)	260 Jersey ROAD	Service Station	Regulation under CLM Act not required	-33.74478874	150.8369408
PORT BOTANY	Vopak B	20 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97946548	151.2121752
PORT BOTANY	Vopak A	49 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97426175	151.2206228

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT BOTANY	Terminals	45 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97609287	151.2174402
PORT BOTANY	Bunnerong Canal	Between Brotherson Dock and Bumborah Point ROAD	Unclassified	Regulation under CLM Act not required	-33.96798227	151.2230052
PORT BOTANY	Bulk Liquids Berth UPSS, Port Botany	Charlotte ROAD	Other Petroleum	Regulation under CLM Act not required	-33.97386329	151.2120157
PORT BOTANY	Port Operations Centre UPSS, Port Botany	Penrhyn ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96803686	151.2205968
PORT BOTANY	Port Botany Railway Corridors	Friendship ROAD	Other Industry	Regulation under CLM Act not required	-33.95467008	151.2178012
PORT BOTANY	Smith Bros	4 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.9681757	151.2238505
PORT BOTANY	Vopak Terminals	21 Fishburn ROAD	Other Industry	Under assessment	-33.97783024	151.2113674
PORT KEMBLA	Coates Hire Facility (Eastern Portion)	1 Flinders STREET	Other Industry	Regulation under CLM Act not required	-34.47104817	150.89162
PORT KEMBLA	Shell Port Kembla CVRO	87-89 Flinders STREET	Other Petroleum	Regulation under CLM Act not required	-34.46964995	150.8953859
PORT KEMBLA	Darcy Road Rail Sidings	Darcy ROAD	Other Industry	Regulation under CLM Act not required	-34.47792834	150.9105503
PORT KEMBLA	No 2 Steelworks	Five Islands ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-34.45965024	150.884432
PORT KEMBLA	Port Kembla Orica	Foreshore Road and Darcy ROAD	Other Industry	Contamination currently regulated under CLM Act	-34.47773583	150.9054545
PORT KEMBLA	Port Kembla, Auszinc Metals and Alloys	Lot 2 Shellharbour ROAD	Metal Industry	Regulation under CLM Act not required	-34.49335414	150.8961205
PORT KEMBLA	South Yard Rail Sidings	Lot 3 Old Port ROAD	Unclassified	Regulation under CLM Act not required	-34.47500551	150.8951739
PORT KEMBLA	Manildra Park	Flinders STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.46946878	150.8935731
PORT KEMBLA	Port Kembla Copper Smelter	Military ROAD	Metal Industry	Contamination currently regulated under POEO Act	-34.4810006	150.9063426

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT KEMBLA	Caltex Service Station	16 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.47058088	150.8945864
PORT KEMBLA	BHP Area 21	Springhill ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-34.4524614	150.8676517
PORT KEMBLA	Port Kembla Steelworks Recycling Area	Springhill ROAD	Unclassified	Regulation under CLM Act not required	-34.45271181	150.8677127
PORT KEMBLA	Commonwealth Rolling Mills (CRM)	Old Port ROAD	Metal Industry	Regulation under CLM Act not required	-34.47476117	150.8974746
PORT KEMBLA	Port Kembla, Former Electricity Commission Site	Old Port Road/Christie Drive ROAD	Other Industry	Regulation under CLM Act not required	-34.46899143	150.8982854
PORT KEMBLA	Port Kembla Steelworks - Steelhaven	Five Islands ROAD	Other Industry	Regulation under CLM Act not required	-34.47605247	150.891144
PORT KEMBLA	Port Kembla Steelworks - No.1 Works Site	Five Islands ROAD	Metal Industry	Regulation under CLM Act not required	-34.47386606	150.8794912
PORT KEMBLA	Port Kembla Springhill Works	Springhill ROAD	Metal Industry	Regulation under CLM Act not required	-34.45574479	150.875052
PORT MACQUARIE	Former Mobil Depot	211 Lake ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44688513	152.8864499
PORT MACQUARIE	Caltex Service Station	112-114 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.43491709	152.9047618
PORT MACQUARIE	Caltex Port Macquarie Service Station	29 Lord STREET	Service Station	Regulation under CLM Act not required	-31.43326436	152.9169873
PORT MACQUARIE	Coles Myer	43 John Oxley DRIVE	Service Station	Regulation under CLM Act not required	-31.45741442	152.8739626
PORT MACQUARIE	Air BP Avgas Facility	Oliver DRIVE	Other Petroleum	Regulation under CLM Act not required	-31.43227222	152.8681083
PORT MACQUARIE	Former Mobil Service Station	Corner Oxley Highway and Major Innes DRIVE	Service Station	Regulation under CLM Act not required	-31.45738931	152.873956
PORT MACQUARIE	Port Macquarie Council Depot	Koala STREET	Unclassified	Regulation under CLM Act not required	-31.45341586	152.9032764
PORT MACQUARIE	Shell Coles Express Port Macquarie Service Station	121 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.4343131	152.9046869

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT MACQUARIE	Caltex Service Station	92 Hastings River DRIVE	Service Station	Regulation under CLM Act not required	-31.42934052	152.8830188
PORT MACQUARIE	Caltex Service Station	12-14 Bolwarra ROAD	Service Station	Regulation under CLM Act not required	-31.45015286	152.8854769
PORT MACQUARIE	Car park	28 Hayward STREET	Other Industry	Regulation under CLM Act not required	-31.43385131	152.9072399
PORTLAND	Ivanhoe Colliery	Pipers Flat ROAD	Other Industry	Regulation under CLM Act not required	-33.36595748	150.0095777
PORTLAND	Mt Piper Power Station	350 Boulder ROAD	Other Petroleum	Regulation under CLM Act not required	-33.35581541	150.0350801
PRAIRIEWOOD	7-Eleven (former Caltex) Service Station	485-487 Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.87102509	150.9031383
PROSPECT	7-Eleven (former Mobil) Service Station Prospect	354 Flushcombe ROAD	Service Station	Regulation under CLM Act not required	-33.79541624	150.9049417
PROSPECT	Pincott's Cottage, Gate C1	Off Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81589773	150.9144343
PROSPECT	Gatehouse, 544 Reservoir Road	544 Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81026272	150.9160605
PROSPECT	Cottage 3, William Lawson Drive	William Lawson DRIVE	Unclassified	Regulation under CLM Act not required	-33.81490331	150.9149885
PUNCHBOWL	Former BP Service Station	1375 Canterbury Road, corner Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.93170424	151.0537302
PUNCHBOWL	Punchbowl Laundry	42-44 Belmore ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.93582701	151.0562638
PUNCHBOWL	Caltex Service Station Punchbowl	1285-1289 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.93146308	151.0596348
PUTNEY	Putney Marina	20 Waterview STREET	Other Industry	Regulation under CLM Act not required	-33.82608091	151.1003966
PYMBLE	Caltex Service Station	1089 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74102977	151.1385257
PYMBLE	Shell Coles Express Service Station	21 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.75198512	151.1438115

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PYMBLE	Former 3M site	950 Pacific HIGHWAY	Gasworks	Regulation under CLM Act not required	-33.75050288	151.1460578
PYMBLE	Pymble West Dry Cleaners	6 Philip MALL	Other Industry	Under preliminary investigation order	-33.76109009	151.1284329
PYRMONT	Former Council Works Depot (Fig and Wattle Depot)	14-26 Wattle STREET	Other Industry	Regulation under CLM Act not required	-33.8752655	151.1942645
QUAKERS HILL	7-Eleven (former Mobil) Service Station	83 Lalor ROAD	Service Station	Regulation under CLM Act not required	-33.72759077	150.8966764
QUAKERS HILL	BP Branded Parkway (Former Caltex) Service Station Quakers Hill	450 Quakers Hill PARKWAY	Service Station	Regulation under CLM Act not required	-33.72998613	150.9023617
QUEANBEYAN	Former Mobil Service Station	153 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34425514	149.2148687
QUEANBEYAN	Bill Lilley Automotive	169 Crawford STREET	Service Station	Regulation under CLM Act not required	-35.35138121	149.232486
QUEANBEYAN	Woolworths Queanbeyan Service Station	196 Crawford (Cnr Morisset St) STREET	Service Station	Regulation under CLM Act not required	-35.35163055	149.233759
QUEANBEYAN	Caltex Queanbeyan Service Station	88 Macquid (also known as Bungendore Rd) STREET	Service Station	Regulation under CLM Act not required	-35.34930535	149.2438607
QUEANBEYAN	Former Mobil Emoleum Depot	109-111 High STREET	Other Petroleum	Regulation under CLM Act not required	-35.3396115	149.237536
QUEANBEYAN	Former Caltex Depot	20-30 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-35.34187485	149.2247277
QUEANBEYAN EAST	BP-Branded Service Station Queanbeyan	50 Yass ROAD	Service Station	Regulation under CLM Act not required	-35.34126641	149.2445103
QUEANBEYAN WEST	Caltex Service Station	Lanyon Dr Cnr Mccrae St (1 Suraci Place) STREET	Service Station	Regulation under CLM Act not required	-35.36372923	149.2067531
QUIRINDI	Former Mobil Depot Quirindi	4-6 Cross STREET	Other Petroleum	Regulation under CLM Act not required	-31.49903355	150.681972
QUIRINDI	Tamarang ServiCentre Quirindi	113-117 Station (also known as 119-121 Nowland) STREET	Service Station	Under assessment	-31.50179204	150.6814611
QUIRINDI	Caltex Service Station, Quirindi	199-201 George STREET	Service Station	Regulation under CLM Act not required	-31.5068778	150.6805874

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RAMSGATE	Shell Coles Express Service Station	Grand Parade cnr Ramsgate ROAD	Service Station	Regulation under CLM Act not required	-33.98537988	151.1471234
RANDWICK	7-Eleven Service Station	126-130 Barker STREET	Service Station	Contamination currently regulated under CLM Act	-33.92096152	151.2355927
RANDWICK	Caltex Service Station	2 Alison ROAD	Service Station	Regulation under CLM Act not required	-33.9065752	151.2320697
RANDWICK	Metro Petroleum	345 Avoca STREET	Service Station	Regulation under CLM Act not required	-33.92544832	151.2396799
RANDWICK	Service Station, Randwick	33-37 Carrington ROAD	Service Station	Contamination currently regulated under CLM Act	-33.90655015	151.2525065
RAVENSWORTH	Ravensthorpe Operations Narama Mine	Lemington ROAD	Other Industry	Regulation under CLM Act not required	-32.47115903	151.0358579
RAVENSWORTH	Cumnock Colliery	Pikes Gully ROAD	Other Industry	Regulation under CLM Act not required	-32.40218281	150.9960082
RAYMOND TERRACE	Shell Coles Express Raymond Terrace	107 Adelaide (formerly Pacific Highway) STREET	Service Station	Regulation under CLM Act not required	-32.76110922	151.7492847
RAYMOND TERRACE	Caltex Service Station Raymond Terrace	136 Adelaide Street, corner Glenelg STREET	Service Station	Regulation under CLM Act not required	-32.76503842	151.7425264
RAYMOND TERRACE	Former Motor Registry	53 William STREET	Other Petroleum	Regulation under CLM Act not required	-32.76286473	151.7445839
RAYMOND TERRACE	Raymond Terrace Wastewater Treatment Works	22 Elizabeth AVENUE	Other Industry	Regulation under CLM Act not required	-32.7745339	151.7498871
REDFERN	BP Service Station	116 Regent STREET	Service Station	Regulation under CLM Act not required	-33.89367876	151.1995256
REDFERN	Former Printing Works	101a Marriott STREET	Other Industry	Regulation under CLM Act not required	-33.89512556	151.2113422
REDFERN	BP-branded Jasbe Surry Hills	411 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89183974	151.2132466
REDFERN	Surry Hills Shopping Village	397-399 Cleveland & 2-38 Baptist STREET	Other Industry	Regulation under CLM Act not required	-33.89229521	151.2119397
REVESBY	Dorf Clark Industries	184-194 Milperra ROAD	Metal Industry	Regulation under CLM Act not required	-33.93387149	151.000553

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
REVESBY	Thetis Pty Ltd - Bituminous Products	33-35 Violet STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.93702092	151.0067896
REVESBY	Mirotone Pty Ltd	21 Marigold STREET	Chemical Industry	Contamination currently regulated under POEO Act	-33.93558608	151.0002207
REVESBY	Caltex Service Station Revesby	181 The River ROAD	Service Station	Regulation under CLM Act not required	-33.95573605	151.0171779
RHODES	Homebush Bay Sediments adjoining the former UCAL and Allied Feeds sites	Homebush BAY	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8262749	151.0839216
RHODES	Former Glad factory site	10-16 Marquet STREET	Chemical Industry	Regulation under CLM Act not required	-33.82884048	151.0848716
RHODES	Former Allied Feeds site	Walker STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82465376	151.0870401
RHODES	Former UCAL site	Walker STREET	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82727505	151.0853195
RHODES	Homebush Bay sediments adjoining former Berger Paint factory	Oulton AVENUE	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.83535308	151.083238
RICHMOND	Caltex Richmond Service Station	98 March (Cnr East Market St) STREET	Service Station	Regulation under CLM Act not required	-33.59937996	150.7514483
RIVERSTONE	Avalta Coating Systems	15-23 Melbourne ROAD	Other Industry	Regulation under CLM Act not required	-33.6636649	150.8557519
RIVERSTONE	7-Eleven Riverstone	55 Garfield ROAD	Service Station	Regulation under CLM Act not required	-33.67802232	150.8635246
RIVERSTONE	Woolworths Vineyard Service Station, Riverstone	1 Woodland Street, corner of Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65607641	150.8724067
RIVERSTONE	Vacant Commercial Land	88-94 Junction ROAD	Unclassified	Regulation under CLM Act not required	-33.66226398	150.878967
RIVERWOOD	7-Eleven Riverwood	30 Bonds ROAD	Service Station	Regulation under CLM Act not required	-33.9523701	151.0583887
ROCKDALE	7-Eleven (former Mobil) Service Station	293 West Botany STREET	Service Station	Regulation under CLM Act not required	-33.94995672	151.1484667
ROCKDALE	7-Eleven Service Station	99 Railway STREET	Service Station	Regulation under CLM Act not required	-33.95247322	151.1356785

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROCKDALE	Lindsay St, Rockdale	7 Lindsay STREET	Other Industry	Under assessment	-33.95900867	151.1436466
ROOTY HILL	7-Eleven (former Mobil) Service Station	106 Rooty Hill Road South ROAD	Service Station	Regulation under CLM Act not required	-33.78036181	150.8501998
ROOTY HILL	7-Eleven (former Mobil) Service Station	1042 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78214955	150.8287656
ROOTY HILL	Infrabuild NSW Pty Ltd (formerly OneSteel NSW Pty Ltd)	27 Kellogg ROAD	Other Industry	Regulation under CLM Act not required	-33.76664143	150.8493465
ROSE BAY	Caltex Rose Bay Service Station	488 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.87475145	151.2723847
ROSE BAY	Rose Bay Budget Service station	638-646 New South Head ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.87062149	151.2677617
ROSEBERY	Autofol P/L	2 Wentmore AVENUE	Other Industry	Regulation under CLM Act not required	-33.91121318	151.2054882
ROSEBERY	Caltex Rosebery Service Station	371 Gardeners (Cnr Macquarie St) ROAD	Service Station	Contamination currently regulated under CLM Act	-33.92307898	151.2059541
ROSEBERY	Former Industrial Site (Former Electroplating Facility)	108 Dunning AVENUE	Other Industry	Regulation under CLM Act not required	-33.91630811	151.201557
ROSEBERY	Rosebery Service Station	395 Gardeners ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92246784	151.2024589
ROSEHILL	James Hardie Australia and former James Hardie lands	Devon STREET	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82539019	151.0339466
ROSEHILL	2 Ritchie Street, Rosehill	2 Ritchie STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.82691192	151.0154948
ROSEHILL	James Hardie Factory (former, western portion)	181 James Ruse DRIVE	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.81605834	151.0238145
ROSELANDS	Roselands Shopping Centre	24 Roseland AVENUE	Service Station	Regulation under CLM Act not required	-33.93499281	151.0691284
ROSELANDS	Woolworths Caltex Petrol Service Station Roselands	218 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.93303118	151.0735036
ROSELANDS	7-Eleven (former Mobil) Service Station	91 Canary's ROAD	Service Station	Regulation under CLM Act not required	-33.93356078	151.0736274

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROSEVILLE	Mobil Service Station	2 Boundary STREET	Service Station	Regulation under CLM Act not required	-33.78769177	151.1796011
ROSEVILLE CHASE	Coles Express Roseville Chase	388 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78337722	151.1973801
ROZELLE	Caltex Service Station	121 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.86252996	151.168497
ROZELLE	7-Eleven (former Mobil) Service Station	178-180 (176-184) Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8630268	151.1680857
ROZELLE	Kennards Rozelle	15-39 Wellington STREET	Other Petroleum	Regulation under CLM Act not required	-33.86176757	151.1686519
ROZELLE	White Bay Power Station	Robert STREET	Other Industry	Regulation under CLM Act not required	-33.86674636	151.1772204
ROZELLE	BP Service Station	Corner Darling Street and Thornton STREET	Service Station	Regulation under CLM Act not required	-33.8591647	151.1716591
RUFUS RIVER	SA Water Depot - Rufus River	Old Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-34.04191512	141.2679475
RUSHCUTTERS BAY	d'Albora Marinas	1b New Beach ROAD	Other Industry	Contamination currently regulated under POEO Act	-33.87351297	151.2345082
RUTHERFORD	Rutherford Transpacific	11 Kyle STREET	Other Industry	Regulation under CLM Act not required	-32.71105203	151.500311
RUTHERFORD	Shell Coles Express Service Station Rutherford	118 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7208703	151.5394595
RUTHERFORD	Caltex Service Station	134-138 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7202589	151.5381526
RUTHERFORD	Transpacific Industrial Services/Nationwide Oil Pty Ltd	99 Kyle STREET	Chemical Industry	Regulation under CLM Act not required	-32.71262159	151.5013865
RYDALMERE	Caltex Service Station	309 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81196193	151.0371185
RYDALMERE	Mitsubishi Electric	348 Victoria ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.81040138	151.0392812
RYDALMERE	Rheem Australia	1 Alan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.81545013	151.0295476

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RYDALMERE	BP Service Station	265 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8109483	151.0328101
RYDALMERE	Hunter Douglas	Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81009112	151.0384732
RYDALMERE	United Petroleum (former 7-Eleven) Service Station Rydalmere	262-272 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81006724	151.032377
RYDE	Shell Coles Express Ryde	45 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80726028	151.109981
RYDE	Caltex Service Station	110 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80142973	151.1137925
RYDE	7-Eleven (former Mobil) Service Station	326-328 Blaxland ROAD	Service Station	Regulation under CLM Act not required	-33.80242183	151.1004278
RYDE	Ryde Bus Depot	51 - 75 Buffalo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.81679771	151.1225255
SANCTUARY POINT	United Service Station, Sanctuary Point	147 Larmer AVENUE	Service Station	Regulation under CLM Act not required	-35.09918861	150.6329537
SANDGATE	Caltex Service Station Sandgate	162 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.86501596	151.706161
SANDGATE	North Limited Storage Handling facility	Maitland ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-32.86598453	151.7012866
SANS SOUCI	7-Eleven (Former Mobil) Service Station	474 Rocky Point ROAD	Service Station	Regulation under CLM Act not required	-33.99088939	151.1333779
SANS SOUCI	BP Sans Souci	520 Rocky Point ROAD	Service Station	Contamination currently regulated under CLM Act	-33.99245122	151.1323571
SANS SOUCI	Kendall Street Reserve	Lawson Street and Kendall STREET	Landfill	Under preliminary investigation order	-33.99966431	151.13005
SANS SOUCI	Former Service Station	542-544 Rocky Point ROAD	Service Station	Contamination was addressed via the planning process (EP&A Act)	-33.99376148	151.1316131
SANS SOUCI	Former 7-Eleven Ramsgate	368 Rocky Point ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.98615125	151.1359961
SCONE	Shell Coles Express Service Station	91- 93 Kelly STREET	Service Station	Contamination currently regulated under CLM Act	-32.04715941	150.8676346

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SCONE	Scone Works Depot	220 Susan STREET	Other Petroleum	Regulation under CLM Act not required	-32.04444892	150.879152
SCONE	Mobil Scone Airport Eit	8 Walter Pye AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.03596733	150.8323698
SCONE	BP - Former Depot	Scone St, Guernsey St & Susan STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.04599284	150.8662046
SCONE	BP Scone	26 Kelly STREET	Service Station	Regulation under CLM Act not required	-32.04033034	150.86549
SCONE	BP Scone Service Station	58 Kelly STREET	Service Station	Regulation being finalised	-32.043776	150.866236
SEVEN HILLS	7-Eleven (Former Mobil) Service Station Seven Hills	151 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76894646	150.9427004
SEVEN HILLS	Australia Post	3 Powers ROAD	Unclassified	Regulation under CLM Act not required	-33.77434009	150.9395495
SEVEN HILLS	Car Park (Former Brickworks / Warehouse)	1 Powers ROAD	Other Industry	Regulation under CLM Act not required	-33.77387442	150.9379787
SEVEN HILLS	BP-branded Jasbe Petroleum Service Station	156 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76906502	150.9414821
SEVEN HILLS	Caltex Service Station	38 Abbott ROAD	Service Station	Regulation under CLM Act not required	-33.76692649	150.9548271
SEVEN HILLS	Caltex Service Station Seven Hills	105 Station ROAD	Service Station	Regulation under CLM Act not required	-33.77435881	150.9448733
SEVEN HILLS	Former Australian Waste Oil Refineries Site	27 Powers ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.77536127	150.9511122
SHELLY BEACH	Former Shelly Beach Landfill	Oaks AVENUE	Landfill	Regulation under CLM Act not required	-33.36700551	151.4913631
SHORTLAND	Former Astra Street Landfill	2 (part) & 28 (part) Astra STREET	Landfill	Contamination currently regulated under CLM Act	-32.8689426	151.6974685
SHORTLAND	Tuxford Park landfill	10 King STREET	Landfill	Regulation under CLM Act not required	-32.87721139	151.6936837
SHORTLAND	Former Lorna St landfill	8/475 Sandgate ROAD	Landfill	Regulation under CLM Act not required	-32.87888726	151.7023245

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SHORTLAND	7-Eleven (Former BP) Service Station	298-302 Sandgate ROAD	Service Station	Regulation under CLM Act not required	-32.8861645	151.6953912
SILVERWATER	Former Silverwater Landfill	Carnarvon ROAD	Landfill	Contamination currently regulated under CLM Act	-33.83506394	151.033214
SILVERWATER	Vacant property	109-105 Silverwater ROAD	Other Industry	Regulation under CLM Act not required	-33.83831374	151.0472576
SILVERWATER	Storage Facility	54-58 Derby STREET	Unclassified	Under assessment	-33.83855869	151.0478649
SILVERWATER	Former Printing Facility	46-58 Derby STREET	Other Industry	Under assessment	-33.83866058	151.0482675
SILVERWATER	Silverwater Correctional Complex	Holker STREET	Landfill	Regulation under CLM Act not required	-33.83123611	151.0585298
SINGLETON	BP Service Station Singleton	53 George (Cnr Macquarie St) STREET	Other Petroleum	Regulation under CLM Act not required	-32.56182325	151.1748034
SINGLETON	Singleton Gasworks	55-57 John STREET	Gasworks	Contamination formerly regulated under the CLM Act	-32.56774715	151.1658188
SINGLETON	Shell Coles Express Service Station	69-73 George STREET	Service Station	Regulation under CLM Act not required	-32.56297156	151.1755215
SINGLETON	Mobil Singleton Airport Etc	749 Range ROAD	Other Petroleum	Regulation under CLM Act not required	-32.60270846	151.1944828
SINGLETON	Putty Saw Mill	(via Singleton) Putty ROAD	Other Industry	Contamination currently regulated under CLM Act	-32.99958725	150.7111684
SINGLETON	NSW Mines Rescue Services - Singleton	6 Lachlan AVENUE	Other Industry	Regulation under CLM Act not required	-32.54537821	151.156584
SMITHFIELD	Caltex Smithfield	16-18 Tait STREET	Service Station	Regulation under CLM Act not required	-33.84596441	150.9435497
SMITHFIELD	Freestones	1 Hume ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83577694	150.9310112
SMITHFIELD	Liquip International	13 Hume ROAD	Other Industry	Regulation under CLM Act not required	-33.83802635	150.9319034
SMITHFIELD	Coles Express (former Mobil) Service Station	678 The Horsley Drive, corner Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.85376154	150.9400104

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SMITHFIELD	Former Landfill	Little STREET	Landfill	Contamination being managed via the planning process (EP&A Act)	-33.85025253	150.9411561
SOUTH ALBURY	BP Border Service Station	Corner Ebdon Street and Wodonga PLACE	Service Station	Contamination currently regulated under CLM Act	-36.08875942	146.9093882
SOUTH BOWENFELS	Shell Coles Express Service Station	Lot 1 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.50589001	150.1238487
SOUTH CODGEE	Caltex South Coogee Service Station	169-173 Malabar ROAD	Service Station	Regulation under CLM Act not required	-33.93233184	151.2574377
SOUTH GRAFTON	Shell Coles Express Service Station	91 Bent STREET	Service Station	Regulation under CLM Act not required	-29.70605829	152.9400329
SOUTH GRAFTON	Former United (former Mobil) Service Station	Corner Pacific Highway and Charles STREET	Service Station	Regulation under CLM Act not required	-29.70814828	152.9412928
SOUTH GRAFTON	Former Caltex Service Station	46-58 Schwinghammer STREET	Service Station	Regulation under CLM Act not required	-29.71149672	152.9433337
SOUTH GRAFTON	Former Caltex Depot South Grafton	72-83 Swallow ROAD	Other Petroleum	Regulation under CLM Act not required	-29.73168549	152.944024
SOUTH GRAFTON	Caltex Service Station	Pacific Hwy Cnr Gwyder HIGHWAY	Service Station	Regulation under CLM Act not required	-29.70739015	152.9425508
SOUTH GRANVILLE	Enhance Service Station South Granville	2 Rawson ROAD	Service Station	Regulation under CLM Act not required	-33.86366193	151.0088768
SOUTH KEMPSEY	Caltex Service Station	52 Lachlan STREET	Service Station	Regulation under CLM Act not required	-31.09361084	152.8370796
SOUTH LISMORE	North Coast Petroleum (Former Mobil) Depot Lismore	19-21 Elliot ROAD	Other Petroleum	Regulation under CLM Act not required	-28.81212046	153.2661935
SOUTH LISMORE	Former Mobil Service Station	126 - 128 Union STREET	Service Station	Regulation under CLM Act not required	-28.81242175	153.267541
SOUTH LISMORE	Caltex Service Station	237 Union STREET	Service Station	Regulation under CLM Act not required	-28.82052708	153.2648111
SOUTH LISMORE	Former Mobil Depot	26-32 Phyllis STREET	Other Petroleum	Regulation under CLM Act not required	-28.81005206	153.2660073
SOUTH MURWILLUMBAH	Former Caltex Depot	39 Lundberg DRIVE	Service Station	Regulation under CLM Act not required	-28.332622	153.4212884

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SOUTH MURWILLUMBAH	Caltex Service Station	1-7 Buchanan (Cnr Tweed Valley Way) STREET	Service Station	Regulation under CLM Act not required	-28.32687988	153.4093274
SOUTH MURWILLUMBAH	Former Mobil Depot	45 Wardrop STREET	Other Petroleum	Regulation under CLM Act not required	-28.33421395	153.3993772
SOUTH NOWRA	Caltex South Nowra	100 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.90516081	150.6029621
SOUTH PENRITH	7-Eleven Service Station	45 Aspen STREET	Service Station	Regulation under CLM Act not required	-33.77727694	150.7107228
SOUTH TAMWORTH	Coles Express Tamworth	251 - 253 Goonoo Goonoo ROAD	Service Station	Contamination currently regulated under CLM Act	-31.1118945	150.9228523
SOUTH TAMWORTH	Caltex Service Station	2 Kathleen Street, corner Kent STREET	Service Station	Regulation under CLM Act not required	-31.10361712	150.9186343
SOUTH WENTWORTHVILLE	Aldi Stores Development	331-339 Great Western HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.8160854	150.9697429
SOUTH WENTWORTHVILLE	Caltex Service Station	313 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81643692	150.9718802
SOUTH WEST ROCKS	Former Trial Bay Caltex Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89190078	153.0573056
SOUTH WEST ROCKS	Former Shell Trial Bay Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89273836	153.0612772
SOUTH WEST ROCKS	Residential area and Reserve opposite Former Caltex terminal	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89172594	153.0573164
SPRINGVALE	Springvale Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.40334736	150.1070462
ST CLAIR	7-Eleven (former Mobil) Service Station	4 Endeavour AVENUE	Service Station	Regulation under CLM Act not required	-33.79430926	150.7885793
ST IVES	7-Eleven (former Mobil) St Ives Service Station	157-159 Mona Vale Road, corner Putarri AVENUE	Service Station	Regulation under CLM Act not required	-33.7326301	151.1563899
ST IVES	Caltex Service Station	452 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.70752272	151.187545
ST IVES	Caltex Service Station	164 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7307595	151.1570462

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST IVES	Caltex Service Station St Ives	363 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7168971	151.1735263
ST IVES	Shell Service Station	179-181 Mona Vale ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.73124859	151.1575827
ST LEONARDS	Telstra Data Centre	4A Herbert STREET	Other Petroleum	Regulation under CLM Act not required	-33.81873741	151.1914222
ST MARYS	Former Woolworths Service Station	170-178 Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75525115	150.7752897
ST MARYS	7-Eleven (former Mobil) Service Station	2 Christie STREET	Service Station	Regulation under CLM Act not required	-33.74790843	150.7767667
ST MARYS	7-Eleven (former Mobil) Service Station	2 Wilson STREET	Service Station	Regulation under CLM Act not required	-33.77790415	150.771689
ST MARYS	Solveco	38 LINKS ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73875413	150.7716457
ST MARYS	Integral Energy Mt Druitt Transmission Substation	69 Kurrajong North ROAD	Other Industry	Regulation under CLM Act not required	-33.76376093	150.7921691
ST MARYS	Caltex St Marys Service Station	Wardoo St Cnr Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75334263	150.7755489
ST MARYS	Chemcolour Industries	19-25 Anne STREET	Chemical Industry	Regulation under CLM Act not required	-33.75027071	150.7725397
ST MARYS	Old Drycleaning location	1-7 Queen STREET	Other Industry	Under assessment	-33.76223376	150.774412
ST MARYS	St Mary's Shopping Village	10 Charles Hackett DRIVE	Other Industry	Regulation under CLM Act not required	-33.76647672	150.7710143
ST PETERS	Cooks River Rail Terminal	20 Canal ROAD	Unclassified	Regulation under CLM Act not required	-33.91943986	151.1726689
ST PETERS	Camdenville Park	May STREET	Other Industry	Regulation under CLM Act not required	-33.90911815	151.176951
ST PETERS	Former Tidyburn Facility	53 Barwon Park ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.9130091	151.1809912
ST PETERS	BP Express Service Station	2 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90982281	151.1809936

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST PETERS	Former Industrial Manufacturing Facility (Taubman's Paints)	75 Mary STREET	Other Industry	Regulation under CLM Act not required	-33.91307297	151.1731383
ST PETERS	Burrows Industrial Estate	1-3 Burrows ROAD	Landfill	Under assessment	-33.920035	151.17854
STANMORE	125 Corunna Road	125 Corunna ROAD	Unclassified	Regulation under CLM Act not required	-33.88937382	151.1644589
STOCKTON	Former Coroba Landfill	310 Fullerton STREET	Landfill	Regulation under CLM Act not required	-32.89578751	151.7898857
STRATHFIELD	7-Eleven (former Mobil) Service Station	577 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88736091	151.0743474
STRATHFIELD SOUTH	Former Landfill Site	7-9 Dunlop STREET	Landfill	Regulation under CLM Act not required	-33.89509698	151.0796751
STROUD	Stroud Fuel Supplies (Former Caltex) Service Station	1 Cowper STREET	Service Station	Regulation under CLM Act not required	-32.39092749	151.9563089
SUFFOLK PARK	BP Service Station	207-209 Broken Head ROAD	Service Station	Regulation under CLM Act not required	-28.68800088	153.6083821
SUFFOLK PARK	Suffolk Park dip site	Cnr Broken Head Road & Beech DRIVE	Cattle Dip	Regulation under CLM Act not required	-28.6874242	153.6072824
SURRY HILLS	Woolworths Petrol Surry Hills	475 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89223271	151.2161434
SURRY HILLS	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET	Service Station	Regulation under CLM Act not required	-33.88470082	151.2107944
SURRY HILLS	Ausgrid Road Reserve	Mary STREET	Other Industry	Regulation under CLM Act not required	-33.88292195	151.2095176
SUTHERLAND	United Service Station and Sutherland Reservoir	1 to 3 Oxford STREET	Service Station	Contamination currently regulated under CLM Act	-34.029532	151.0579906
SUTHERLAND	7-Eleven Service Station	693 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02976735	151.0588789
SUTTON FOREST	Coles Express Sutton Forest West	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.60808989	150.2250592
SWANSEA	Caltex Service Station	126 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.08811841	151.6381764

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SWANSEA	Swansea 1 - Wastewater Pumping Station	137 and 137a Northcote AVENUE	Other Industry	Regulation under CLM Act not required	-33.09733813	151.6473669
SYDENHAM	SRA Land	117 Railway PARADE	Other Industry	Regulation under CLM Act not required	-33.91560723	151.1656846
SYDENHAM	Sydenham XPT Maintenance Facility	Way STREET	Other Industry	Regulation under CLM Act not required	-33.91698468	151.1614089
SYDNEY	Interpro House (OSP 46581)	447 Kent STREET	Other Petroleum	Regulation under CLM Act not required	-33.87225413	151.204761
SYDNEY	Eurostar Dry Cleaners	100 Oxford STREET	Chemical Industry	Regulation under CLM Act not required	-33.8792987	151.2156647
SYDNEY OLYMPIC PARK	RMS Western Precinct	14A-14E and 16 Hill ROAD	Other Petroleum	Regulation under CLM Act not required	-33.82239777	151.0758664
SYDNEY OLYMPIC PARK	Haslams Creek South Area 3	At Kronos Hill, Kevin Coombes AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.84113059	151.0602966
SYDNEY OLYMPIC PARK	Bicentennial Park	Bicentennial DRIVE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84456248	151.0788116
SYDNEY OLYMPIC PARK	Former Golf Driving Range Landfill	Sarah Durack AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85358517	151.0713987
SYDNEY OLYMPIC PARK	Kronos Hill Landfill	Kevin Coombes AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84014442	151.0649521
SYDNEY OLYMPIC PARK	Wilson Park (Former oil gas plant site)	Newington ROAD	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82623982	151.0536833
SYDNEY OLYMPIC PARK	Woo-la-ra Landfill	Hill ROAD	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82695807	151.07282
SYDNEY OLYMPIC PARK	Aquatic Centre Carpark Landfill	Shane Gould AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85153457	151.0678127
SYDNEY OLYMPIC PARK	Blaxland Common Landfill	Jamieson STREET	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82638382	151.05972
SYLVANIA	Caltex Service Station	61 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.0140089	151.104212
SYLVANIA HEIGHTS	Caltex Service Station - Sylvania Heights	414-416 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.02361051	151.0895394

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TALBINGO	Old Town Landfill	Bridle STREET	Landfill	Regulation under CLM Act not required	-35.59018237	148.3041771
TALBINGO	T3 Spoil dump and adjoining river sediments	Off Snowy Mountains HIGHWAY	Landfill	Contamination formerly regulated under the CLM Act	-35.6177268	148.2926158
TALBINGO	Former grit blasting site	Old Damsite ROAD	Other Industry	Regulation under CLM Act not required	-35.60894551	148.3030165
TAMINDA	Mobil Depot	9 Hinkler ROAD	Other Petroleum	Regulation under CLM Act not required	-31.09584286	150.9040493
TAMWORTH	Caltex Tamworth Service Station	109 Gunnedah ROAD	Service Station	Regulation under CLM Act not required	-31.09723226	150.8955299
TAMWORTH	Curlew Crescent	19-29 Curlew CRESCENT	Metal Industry	Regulation under CLM Act not required	-31.06963607	150.9068306
TAMWORTH	Former Service Station, Fitzpatrick Super Fund, Tamworth	210 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.10613594	150.9234143
TAMWORTH	Gunnedah Road Site	49 GUNNEDAH ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-31.09574904	150.9021583
TAMWORTH	Elovera Former Sheep Dip	730 Ascot Calala ROAD	Cattle Dip	Regulation under CLM Act not required	-31.1801846	150.962897
TAMWORTH	Housing NSW	29-33 White STREET	Other Petroleum	Regulation under CLM Act not required	-31.0915651	150.9357811
TAMWORTH	BP Tamworth Service Station and Depot	27-29 Gunnedah ROAD	Other Petroleum	Under assessment	-31.09642128	150.9058193
TAMWORTH	Former Mobil Service Station	373-375 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.10122679	150.9441341
TAMWORTH	Kensell's Mitsubishi	11-14 Kable AVENUE	Other Petroleum	Regulation under CLM Act not required	-31.08921565	150.9273063
TAMWORTH	Caltex Star Tamworth	21 White STREET	Service Station	Regulation under CLM Act not required	-31.09255137	150.9341709
TAMWORTH	Former Service Station Tamworth	(Chr Scott Rd) 254-256 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.1138945	150.9228523
TAMWORTH	Cleanaway Operations Pty Ltd	31 Gunnedah ROAD	Other Industry	Under assessment	-31.09621029	150.9051567

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TAMWORTH	Elgas Depot (former gasworks)	115 Marius STREET	Gasworks	Under preliminary investigation order	-31.08546191	150.926437
TAMWORTH	Proposed ALDI Store Tamworth	194-196 Peel STREET	Other Industry	Under assessment	-31.08522053	150.9260054
TARAGO	Tarago Railway Siding	Goulburn STREET	Other Industry	Contamination currently regulated under CLM Act	-35.0695949	149.6516166
TARCUITA	Mobil Service Station	(Hume Highway) 32 Sydney STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.2772942	147.73574
TAREE	Caltex Taree	12 Pitt STREET	Service Station	Regulation under CLM Act not required	-31.90551738	152.478334
TAREE	Former Caltex Depot	44 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90563595	152.4640848
TAREE	Former BP Service Station (Reliance Petroleum)	150 Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.93842026	152.4682056
TAREE	Former Shell Depot	53-55 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90514622	152.4649706
TAREE	United Service Station and Former Mobil Depot	85 Muldoon Street, corner Grey Gum ROAD	Service Station	Regulation under CLM Act not required	-31.89744109	152.4508569
TAREE	Caltex Service Station	104-106 Commerce STREET	Service Station	Regulation under CLM Act not required	-31.90720519	152.4500926
TAREE	Footpath in front of the former BP service station	53-55 Victoria STREET	Service Station	Regulation under CLM Act not required	-31.91015653	152.4659073
TAREN POINT	Former Oyster Farm	Part 2R Alexander Avenue and part 98 Woodlands ROAD	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-34.01714802	151.1252694
TAREN POINT	Former Oyster Farmer	1A Atkinson ROAD	Other Industry	Regulation under CLM Act not required	-34.02081803	151.1283282
TAREN POINT	Former manufacturing site	46-50 Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.0236194	151.1231649
TAREN POINT	Mangrove Lane Cycle pathway	Mangrove LANE	Unclassified	Regulation under CLM Act not required	-34.02404025	151.1324783
TAREN POINT	Caltex Service Station	114 Taren Point ROAD	Service Station	Regulation under CLM Act not required	-34.02065958	151.1218938

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TAREN POINT	Shell Coles Express Service Station	99-103 Parraweena ROAD	Service Station	Regulation under CLM Act not required	-34.02630233	151.1200897
TAREN POINT	Redevelopment Site	25 Bay ROAD	Landfill	Regulation under CLM Act not required	-34.02119591	151.1274727
TELARAH	Former Ausgrid Depot	Green STREET	Other Industry	Regulation under CLM Act not required	-32.7276446	151.5269745
TELARAH	ACIRL	5 Junction STREET	Other Industry	Regulation under CLM Act not required	-32.73457183	151.5400178
TEMORA	Woolworths Caltex Temora	98-100 Hoskins STREET	Service Station	Regulation under CLM Act not required	-34.44324584	147.5318667
TEMPE	Tempe Depot	1a Gannon STREET	Other Petroleum	Regulation under CLM Act not required	-33.92408255	151.1596469
TEMPE	Caltex Service Station	775 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.9253681	151.1596532
TEMPE	Former Tempe Tip	South STREET	Landfill	Contamination currently regulated under CLM Act	-33.92558642	151.1667178
TEMPE	Railcorp Site Renwick Street	Renwick STREET	Other Industry	Regulation under CLM Act not required	-33.91997709	151.1576058
TENTERFIELD	United Tenterfield Service Station	94 Rouse STREET	Service Station	Under assessment	-29.06260969	152.0168305
TERALBA	Lake Macquarie Teralba Sanitary Depot	Griffen ROAD	Landfill	Regulation under CLM Act not required	-32.9372059	151.6214528
TERALBA	Lucky's Scrap Metal Yard	21 Racecourse ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.946805	151.61698
TERANIA CREEK	Former Izzards Cattle Tick Dip	Wallace ROAD	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.65425776	153.2767438
THE ROCKS	Dawes Point Park	Hickson ROAD	Other Industry	Under assessment	-33.855041	151.209547
THIRLMERE	Thirlmere Rail Heritage Museum	10 Barbour ROAD	Other Industry	Regulation under CLM Act not required	-34.20689245	150.5693902
THORNLEIGH	Caltex Thornleigh Service Station	192-198 Pennant Hills (Cnr Duffy Ave) ROAD	Service Station	Regulation under CLM Act not required	-33.72660793	151.08364

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
THORNLEIGH	Coles Express Service Station Thornleigh	188 - 190 Penmant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.72502184	151.0850569
THORNTON	Energy Australia Thornton Pole Yard	55 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79973875	151.6374998
TIGHES HILL	Holcim Australia Cement Batching Plant	340 Industrial DRIVE	Other Industry	Regulation under CLM Act not required	-32.90532418	151.7574857
TIGHES HILL	SRA Land	73 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-32.90795794	151.754631
TIGHES HILL	Former Ampol Depot	94 Elizabeth STREET	Other Petroleum	Regulation under CLM Act not required	-32.90658137	151.757239
TIGHES HILL	Former Mobil Terminal	110 Elizabeth STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-32.90600406	151.7586907
TOCUMWAL	Former Mobil Depot	250 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-35.79180653	145.5648214
TOCUMWAL	Former Mobil Depot	79-83 Deniliquin ROAD	Other Petroleum	Regulation under CLM Act not required	-35.80914914	145.5585528
TOMAGO	Balcombe Sweat Furnace	26 Laverick AVENUE	Metal Industry	Regulation under CLM Act not required	-32.82557395	151.7056416
TOMAGO	Former Hydromet Site	25 School DRIVE	Metal Industry	Under assessment	-32.8301553	151.7300603
TOMAGO	R2M Site - Tomago	1877 Pacific HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.81419433	151.6985159
TOMERONG	Log Cabin Service Station (United Petroleum)	D1300 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.01820959	150.5779687
TOONGABBIE	7-Eleven (Former Mobil) Service Station Toongabbie	3 Metella ROAD	Service Station	Regulation under CLM Act not required	-33.78692357	150.9462837
TOORMINA	Caltex Service Station	2 Minorca PLACE	Service Station	Regulation under CLM Act not required	-30.35229568	153.0906606
TORONTO	Coles XP (Former Mobil) Toronto Service Station	133 - 137 Cary (Cnr Thorne St) STREET	Service Station	Regulation under CLM Act not required	-33.01187681	151.5930879
TORONTO	BP Toronto Service Station	132 Cary (Cnr Donnelly Ave) STREET	Service Station	Regulation under CLM Act not required	-33.01144673	151.5937863

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TORONTO	Toronto Hotel	74 Victory PARADE	Unclassified	Regulation under CLM Act not required	-33.01214835	151.5958127
TORONTO	Caltex Service Station	147 Cary STREET	Service Station	Regulation under CLM Act not required	-33.01288007	151.5928388
TORONTO	155B Brighton Avenue, Toronto NSW 2283	155B Brighton AVENUE	Other Industry	Under assessment	-33.014887	151.599757
TOUKLEY	Former Shell Toukley Autoport	211 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26383791	151.5386268
TOUKLEY	7-Eleven Australia	287 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26469166	151.5464214
TRANGIE	Caltex Service Station	(Mitchell Hwy) 76 Narramine STREET	Service Station	Regulation under CLM Act not required	-33.03234676	147.985164
TUGGERAH	BP Tuggerah	100 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.30578167	151.4198083
TUMBARUMBA	Former Caltex Depot	150 Albury STREET	Other Petroleum	Regulation under CLM Act not required	-35.77024081	147.9977182
TUMBI UMBI	Former Tumbi Landfill	140 Bellevue ROAD	Landfill	Regulation under CLM Act not required	-33.3993472	151.456471
TUMUT	CSR Blue Dam	Jepsen AVENUE	Other Industry	Under assessment	-35.30098337	148.1958308
TUMUT	CSR Railway cutting	Jepsen AVENUE	Unclassified	Under assessment	-35.30422002	148.1942579
TUMUT	Former Telstra Depot	22-26 Carey STREET	Other Industry	Regulation under CLM Act not required	-35.29873079	148.2191122
TUNCESTER	Asbestos Waste Burial Site	13 Rifle Range ROAD	Other Industry	Contamination currently regulated under CLM Act	-28.79939255	153.2193708
TUROSS HEAD	Tern inn Restaurant (abandoned UPSS)	2 Trafalgar ROAD	Service Station	Regulation under CLM Act not required	-36.05871059	150.1308443
TURRAMURRA	7-Eleven (former Mobil) Service Station Turramurra	1408 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73326389	151.1264194
TURRAMURRA	Woolworths Service Station	1233 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73317594	151.1313195

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TURRELLA	Tulloch Australia Pty Limited	61 Turrella STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.92857213	151.1475387
TWEED HEADS	Former Mobil Quix Service Station	60 MINJUNGBAL DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-28.20143775	153.5445381
TWEED HEADS	Francis Street Road Reserve adjacent to 79-81 Wharf Street, Tweed Heads	79-81 Wharf STREET	Other Petroleum	Regulation under CLM Act not required	-28.17351959	153.542262
TWEED HEADS SOUTH	Former BP Depot	142 Minjungbal DRIVE	Other Petroleum	Regulation under CLM Act not required	-28.20860702	153.5455932
TWEED HEADS SOUTH	Coles Express Service Station	Corner Minjungbal Drive and Heffron STREET	Service Station	Regulation under CLM Act not required	-28.19459987	153.5419978
TWEED HEADS SOUTH	Woolworths Plus Petrol	98-102 Pacific (100 Minjungbal Drive) HIGHWAY	Service Station	Regulation under CLM Act not required	-28.20488521	153.5448675
TWEED HEADS WEST	Caltex Service Station	96 to 98 Kennedy DRIVE	Service Station	Regulation under CLM Act not required	-28.1871486	153.5229866
TYAGARAH	Tyagarah Airstrip	25 Staceys WAY	Other Petroleum	Regulation under CLM Act not required	-28.59511995	153.546834
ULAN	Ulan Coal Mine	4505 Ulan ROAD	Other Industry	Regulation under CLM Act not required	-32.25620603	149.7558075
ULLADULLA	Coles Express Ulladulla	153 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36288274	150.47272
ULLADULLA	Woolworths Petrol Station	155-157 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36316263	150.4725668
ULLADULLA	Caltex Service Station	62A Deering Street, corner Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36276828	150.473578
ULTIMO	Shell Coles Express Service Station	387-429 Wattle STREET	Service Station	Regulation under CLM Act not required	-33.88138825	151.1966791
UNANDERRA	Endeavour Energy Springhill Field Service Centre	195 Five Island ROAD	Other Industry	Regulation under CLM Act not required	-34.45837706	150.8598825
UNANDERRA	BlueScope Stainless Steel	13 Marley PLACE	Metal Industry	Contamination currently regulated under CLM Act	-34.44959798	150.8571632
UNANDERRA	Unanderra Weekend Detention Centre	34-40 Lady Pennyhn DRIVE	Landfill	Regulation under CLM Act not required	-34.4620226	150.8473821

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
UNANDERRA	Veolia Environmental Services	9 Waynote PLACE	Other Industry	Regulation under CLM Act not required	-34.46042393	150.863232
UNANDERRA	Caltex Service Station	86-98 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.45414951	150.845165
UNANDERRA	Former Prime Service Station and adjoining lands	41-49 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-34.45056105	150.8490833
URALLA	Caltex Service Station	103 Bridge STREET	Service Station	Regulation under CLM Act not required	-30.64524911	151.4934484
URALLA	Phoenix Foundry	44 Duke STREET	Metal Industry	Regulation under CLM Act not required	-30.65093272	151.5004479
URANQUINTY	Former Caltex Depot Kapooka (Wagga Wagga)	6876 Olympic (Uranquinty Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-35.15319793	147.3085469
URLUNGA	Former Antimony Process plant	Hillside DRIVE	Chemical Industry	Contamination currently regulated under CLM Act	-30.50422942	153.0132011
VALENTINE	BP Express Service Station	855 Macquarie DRIVE	Service Station	Regulation under CLM Act not required	-33.00801109	151.6425806
VALENTINE	Valentine Public School	Tallawalla ROAD	Unclassified	Regulation under CLM Act not required	-33.0091613	151.6423231
VALLA	BP Nambucca Heads (Travel Centre and Truckstop)	2 Corkwood ROAD	Other Industry	Regulation under CLM Act not required	-30.628192	152.972756
VILLAWOOD	Nepotian (Former Toll) Site	110A Christina ROAD	Other Industry	Under preliminary investigation order	-33.87919117	150.9812193
VILLAWOOD	Former Defence Site	29 Biloela STREET	Landfill	Regulation under CLM Act not required	-33.88782978	150.9886275
VILLAWOOD	Former Siemens/Westinghouse	49 Miowera ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.87641909	150.9836746
VILLAWOOD	Former Orica Crop Care	2 Christina ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.880329	150.9896329
VILLAWOOD	PPG Industries	9 Birmingham AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.87800757	150.9887929
VILLAWOOD	Former Electrical Component Manufacturer	66 Christina ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.88018315	150.9838773

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
VILLAWOOD	Ettason Villawood Site	2A Birmingham AVENUE	Chemical Industry	Under preliminary investigation order	-33.87877335	150.9827722
VINEYARD	Shell Coles Express Service Station	731 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65780463	150.8753245
WAGGA WAGGA	Caltex Service Station	170 Fitzmaurice STREET	Service Station	Regulation under CLM Act not required	-35.10289587	147.3679002
WAGGA WAGGA	Former BP Service Station	31 Bourke STREET	Service Station	Regulation under CLM Act not required	-35.12626628	147.3547199
WAGGA WAGGA	Caltex (former Mobil) Service Station	106 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11910909	147.3682364
WAGGA WAGGA	Former Caltex Depot	60 Lake Albert DRIVE	Service Station	Regulation under CLM Act not required	-35.12316794	147.37724
WAGGA WAGGA	Former Mobil Depot Wagga Wagga	97-99 Coleman STREET	Other Petroleum	Regulation under CLM Act not required	-35.12173871	147.3576651
WAGGA WAGGA	Ashmont Autoport	Cnr Tobruk Street and Bardia STREET	Service Station	Regulation under CLM Act not required	-35.12517373	147.329919
WAGGA WAGGA	Former Caltex Service Station	343 Hammond AVENUE	Service Station	Regulation under CLM Act not required	-35.12420793	147.4157959
WAGGA WAGGA	Caltex Service Station	56 -60 Docker St STREET	Service Station	Regulation under CLM Act not required	-35.11737947	147.3558145
WAGGA WAGGA	Former Iron Foundry	212-230 Hammond STREET	Metal Industry	Regulation under CLM Act not required	-35.12605478	147.4045461
WAGGA WAGGA	Coles Express Wagga Wagga	353-355 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11606625	147.3509339
WAGGA WAGGA	Former Wiradjuri landfill	Narrung STREET	Landfill	Under assessment	-35.09628532	147.3619535
WAGGA WAGGA	Former Gasworks	54 Chaston STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-35.12262069	147.3482778
WAGGA WAGGA	Former Gasworks	Cnr Tarcutta Street and Cross STREET	Gasworks	Contamination currently regulated under CLM Act	-35.10871183	147.3737933
WAGGA WAGGA	BP Wagga Wagga	180 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11850802	147.3639619

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WAGGA WAGGA	Former Dry Cleaning Facility	183 Fitzmaurice STREET	Other Industry	Contamination currently regulated under CLM Act	-35.10209987	147.3683852
WAHROONGA	Coles Express Wahroonga	1601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71945571	151.1163002
WAHROONGA	7-Eleven Service Station	1579 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71974617	151.1168106
WAITARA	Caltex Service Station	59-61 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71064349	151.1024644
WALGETT	Former Shell Depot	Castlereagh HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.00861179	148.1239938
WALLERAWANG	Wallerawang Power Station	1 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.40339296	150.0855101
WALLERAWANG	Lidsdale Coal Loading Facility	Main STREET	Other Industry	Regulation under CLM Act not required	-33.39996523	150.0737717
WALLSEND	Caltex Maryland Service Station Wallsend	41 Minmi ROAD	Service Station	Regulation under CLM Act not required	-32.88967866	151.6619253
WALLSEND	Coles Express Wallsend East	15 Thomas STREET	Service Station	Regulation under CLM Act not required	-32.90719444	151.6693426
WALLSEND	OneSteel Recycling	64-80 Sandgate ROAD	Metal Industry	Regulation under CLM Act not required	-32.89425477	151.6799648
WALLSEND	Ausgrid Wallsend Depot	Abbott STREET	Other Industry	Regulation under CLM Act not required	-32.90162796	151.6857267
WALLSEND	Cnr of Douglas Street and 111 Newcastle Road Wallsend	111 Newcastle ROAD	Metal Industry	Regulation under CLM Act not required	-32.90416617	151.6832227
WAMBERAL	Caltex Service Station	654 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.42338668	151.4375685
WANGI WANGI	Myuna Colliery	Wangi Point ROAD	Other Industry	Regulation under CLM Act not required	-33.06139532	151.5697186
WARATAH	Waratah Area Health	Turton ROAD	Unclassified	Regulation under CLM Act not required	-32.90961233	151.7260867
WARATAH	Waratah former Gasworks	Turton and Georgetown ROADS	Gasworks	Regulation being finalised	-32.90591166	151.7272715

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WARDELL	Nancy's Cattle Dip, Thurgates Lane, Wardell	Thurgates LANE	Cattle Dip	Regulation under CLM Act not required	-28.9540212	153.4274874
WARILLA	Woolworths Petrol Warilla	43 -57 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.5470966	150.863748
WARKWORTH	Emulsion Plant, Dyno Nobel Asia Pacific Pty Ltd	186 Long Point ROAD	Chemical Industry	Regulation under CLM Act not required	-32.5781708	151.0834387
WARKWORTH	United Colliery	Jerrys Plains ROAD	Other Industry	Regulation under CLM Act not required	-32.5654356	150.9916698
WARNERS BAY	Caltex Service Station	55 King STREET	Service Station	Regulation under CLM Act not required	-32.97418806	151.6476184
WARNERS BAY	7-Eleven (former Mobil) Service Station	393 Hillsborough ROAD	Service Station	Regulation under CLM Act not required	-32.9659363	151.6543264
WARNERS BAY	Historically Filled Land	41-43 Charles STREET	Unclassified	Regulation under CLM Act not required	-32.97340461	151.6464383
WARNERVALE	Former Timber Treatment Plant	Aldenham and Railway ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.24737018	151.446037
WARRAGAMBA	Warragamba Dam Viewing Platform	Eighteenth STREET	Unclassified	Regulation under CLM Act not required	-33.88545624	150.6016219
WARRAGAMBA	Megarrity's Creek Site	Weir ROAD	Unclassified	Regulation under CLM Act not required	-33.8873146	150.5967305
WARRAWONG	Caltex Service Station	75-77 King STREET	Service Station	Regulation under CLM Act not required	-34.49037817	150.888802
WARREN	Former Shell Depot	8 Dubbo STREET	Other Petroleum	Regulation under CLM Act not required	-31.69379262	147.8308088
WARREN	Caltex Warren Service Station	1 Coonamble ROAD	Service Station	Regulation under CLM Act not required	-31.69508383	147.8405578
WARREN	Former Mobil Warren Depot	16 Dubbo STREET	Other Petroleum	Contamination currently regulated under CLM Act	-31.6943058	147.8314606
WARWICK FARM	Warwick Farm Public School	95 Lawrence Hargrave ROAD	Unclassified	Regulation under CLM Act not required	-33.90978695	150.9291852
WATERLOO	Proposed Construction Site	2 John STREET	Other Industry	Regulation under CLM Act not required	-33.89989686	151.2010324

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WATERLOO	Waverley Woolahra Process Plant	355 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9063092	151.2042672
WATERLOO	Shell Coles Express Service Station	867-877 South Dowling STREET	Service Station	Regulation under CLM Act not required	-33.90179774	151.2143789
WATERLOO	Lawrence Dry Cleaners	887-899 Bourke STREET	Unclassified	Contamination currently regulated under CLM Act	-33.89897433	151.2101436
WATERLOO	Diversity Waterloo Blocks C & D and adjacent plaza / park	1, 9, 13, 13A, 13B and 23 Archibald Avenue, 20 Dunkerley Place and 850 Bourke STREET	Other Industry	Regulation under CLM Act not required	-33.90200158	151.2098496
WATERLOO	Iconic (Former Chubb Factory) Waterloo	830-838 Elizabeth STREET	Other Industry	Regulation under CLM Act not required	-33.90227718	151.2060305
WATERLOO	22-24 Archibald Avenue	22-24 Archibald AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.90206938	151.2139293
WAUCHOPE	Expressway Spares UST	3 Sancroft ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44163879	152.8231104
WAUCHOPE	Former Shell Depot	56-64 High STREET	Other Petroleum	Regulation under CLM Act not required	-31.45804845	152.7314151
WAUCHOPE	Wauchope Service Station	57 High STREET	Service Station	Regulation under CLM Act not required	-31.45737022	152.7305018
WAUCHOPE	Former Timber Treatment Site	Blackbutt DRIVE	Other Industry	Regulation under CLM Act not required	-31.46575645	152.7228555
WAUCHOPE	Shell Coles Express Service Station	64 High STREET	Service Station	Regulation under CLM Act not required	-31.45764495	152.7315975
WAUCHOPE	Wauchope Public Primary School	2 Waugh STREET	Unclassified	Regulation under CLM Act not required	-31.45602953	152.7295059
WAVERTON	SRA Land	95 Bay ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-33.83716728	151.1969497
WAVERTON	Berry's Bay Woodley's Marina	1 Balls Head DRIVE	Other Industry	Contamination formerly regulated under the POEO Act	-33.84441851	151.1947433
WAVERTON	Oyster Cove AGL	2 King STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.83637995	151.193541
WEE JASPER	Wee Jasper Tavern	6499 Wee Jasper ROAD	Other Industry	Regulation under CLM Act not required	-35.10992483	148.679428

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WELLINGTON	Former Caltex Service Station	124-128 Lee STREET	Service Station	Regulation under CLM Act not required	-32.55082729	148.9411537
WELLINGTON	BP Wellington Service Station	35A Maxwell STREET	Service Station	Under assessment	-32.55835121	148.9447284
WELLINGTON	Woolworths Petrol Wellington	79 Lee STREET	Service Station	Regulation under CLM Act not required	-32.54874227	148.9408531
WENTWORTH	Caltex - Wentworth	110 Adams STREET	Service Station	Regulation under CLM Act not required	-34.1024927	141.9160539
WENTWORTH FALLS	Bodington Hospital	Bodington DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-33.73204611	150.3874554
WENTWORTH POINT	RMS Eastern Precinct	3-7 Burroway ROAD	Other Petroleum	Regulation under CLM Act not required	-33.8233882	151.0815668
WENTWORTH POINT	Former TNT Express	23 Bennelong PARKWAY	Other Petroleum	Regulation under CLM Act not required	-33.83115118	151.0726366
WENTWORTHVILLE	Former Workshop	2 Rawson Rd and 8 Barfil CRESCENT	Unclassified	Regulation under CLM Act not required	-33.81568808	150.9671853
WERRINGTON	Caltex Service Station	Cnr Dunheved Rd and Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.74577725	150.7408877
WERRINGTON	Claremont Meadows Former landfill	Gipps STREET	Landfill	Regulation under CLM Act not required	-33.77341076	150.7557628
WERRINGTON COUNTY	7-Eleven Werrington	Lot 122 Dunheved ROAD	Service Station	Regulation under CLM Act not required	-33.74699408	150.7428609
WEST BALLINA	Caltex Big Prawn Service Station	Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-28.86374913	153.5321482
WEST GOSFORD	Caltex Service Station	283 Manns ROAD	Service Station	Regulation under CLM Act not required	-33.41659727	151.325219
WEST GOSFORD	Caltex Service Station	69-71 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42729985	151.3214621
WEST GOSFORD	Caltex Service Station	30a Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42778813	151.3190581
WEST GOSFORD	Adcock Memorial Park	Central Coast HIGHWAY	Landfill	Contamination currently regulated under CLM Act	-33.42963075	151.3273331

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WEST NOWRA	Endeavour Energy Nowra Field Service Centre	20 Depot ROAD	Other Industry	Regulation under CLM Act not required	-34.88993085	150.5878854
WEST PENNANT HILLS	7-Eleven (former Mobil) Service Station	552 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.74686545	151.0508067
WEST RYDE	7-Eleven (former Mobil) Service Station	917 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80921103	151.0932917
WEST RYDE	Pfizer Australia Pty Ltd	38-42 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81021085	151.0693631
WEST RYDE	Reckitt Benckiser	44 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81172205	151.0692752
WEST RYDE	JHM Property Development	2A Mellor STREET	Other Industry	Regulation under CLM Act not required	-33.81207534	151.094598
WEST TAMWORTH	Woolworths Petrol	119 Bridge STREET	Service Station	Regulation under CLM Act not required	-31.09358262	150.9167693
WEST WYALONG	Lowes Petroleum (Former BP) Depot West Wyalong	Compton (formerly known as Town Bypass/Railway Road) ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93440247	147.2154596
WEST WYALONG	Caltex Depot	(Wyalong By-pass Rd) Lot 1-3 Showground ROAD	Service Station	Regulation under CLM Act not required	-33.92580863	147.1978504
WEST WYALONG	Former Mobil Depot	104 Compton ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93449194	147.2147948
WESTON	Illegal Dumping Site	Corner Kline Street & First STREET	Unclassified	Regulation under CLM Act not required	-32.81367986	151.4551507
WETHERILL PARK	Former Fuel Storage Depot	200-212 Cowpasture ROAD	Other Petroleum	Regulation under CLM Act not required	-33.84568871	150.8764012
WETHERILL PARK	Sims Wetherill Park	35-37 Frank STREET	Metal Industry	Regulation under CLM Act not required	-33.84056122	150.9086265
WETHERILL PARK	Shell Coles Express Service Station	56S Polding STREET	Service Station	Regulation under CLM Act not required	-33.8569731	150.8992804
WETHERILL PARK	Cleanaway (Formerly Nationwide Oil) Wetherill Park	6 Davis ROAD	Other Industry	Regulation under CLM Act not required	-33.83770038	150.9045197
WETHERILL PARK	BOC Sydney Operations Centre	428-440 Victoria STREET	Chemical Industry	Regulation being finalised	-33.84375988	150.8960027

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WETHERILL PARK	Canwide Former Landfill	Newton ROAD	Landfill	Regulation under CLM Act not required	-33.83898879	150.8963813
WICKHAM	Caltex Terminal and "Building 33" on offsite adjacent land	156 Hannell Street and 33 Annie STREET	Other Petroleum	Contamination currently regulated under CLM Act	-32.9153413	151.7560062
WICKHAM	Former Warehouse	10 Dangar STREET	Unclassified	Regulation under CLM Act not required	-32.92383206	151.759761
WICKHAM	Former Factory	57 Annie STREET	Other Industry	Regulation under CLM Act not required	-32.91524827	151.753893
WICKHAM	Railcorp Wickham	50 Railway STREET	Other Industry	Regulation under CLM Act not required	-32.9210433	151.7544687
WICKHAM	Fuchs Lubricants Wickham	2 Holland STREET	Other Industry	Contamination currently regulated under CLM Act	-32.9214709	151.7556928
WILBERFORCE	Former Drum Reconditioners	12-14 Box AVENUE	Other Industry	Contamination formerly regulated under the CLM Act	-33.5453884	150.8587934
WILBERFORCE	Former Solvent Recycling Site	13 Box AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.54557427	150.8577006
WILEY PARK	Sydney Water Property	18 Hillcrest STREET	Other Industry	Regulation under CLM Act not required	-33.92391634	151.0676256
WILLIAMTOWN	Hunter Land Effluent Pond	38 Cabbage Tree ROAD	Other Industry	Regulation under CLM Act not required	-32.80750069	151.8310107
WILLOUGHBY	Shell Coles Express Service Station	616-626 Willoughby ROAD	Service Station	Regulation under CLM Act not required	-33.80593769	151.1988559
WILLOUGHBY	Caltex Service Station	157 Penhur STREET	Service Station	Regulation under CLM Act not required	-33.79793513	151.1981926
WILLOUGHBY	BP Express Tower	498 Willoughby STREET	Service Station	Contamination currently regulated under POEO Act	-33.81022918	151.199315
WILLOUGHBY EAST	Willoughby Bus Depot	Corner Ann Street and Stan STREET	Other Industry	Regulation under CLM Act not required	-33.7982569	151.2038993
WILTON	Condell Park Homestead	(Part Lot 17 DP 270536) Condell Park ROAD	Unclassified	Regulation under CLM Act not required	-34.21910141	150.6837962
WINDANG	Caltex Service Station	244-248 Windang ROAD	Service Station	Regulation under CLM Act not required	-34.5274434	150.8691161

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WINDSOR	Former Caltex Service Station	46-52 Macquarie STREET	Service Station	Regulation under CLM Act not required	-33.60783315	150.8213428
WINDSOR	Former Caltex Windsor Depot and Service Station	48-50 Mileham STREET	Service Station	Regulation under CLM Act not required	-33.61538627	150.8157517
WINDSOR	Woolworths (former Caltex) Service Station	Cnr Macquarie Street & Baker STREET	Service Station	Regulation under CLM Act not required	-33.60569346	150.8232803
WINDSOR	Former Fire Station Windsor	19 Fitzgerald STREET	Other Industry	Under assessment	-33.6064873	150.8199089
WINGHAM	Former Caltex Service Station	1036-1038 Wingham ROAD	Service Station	Regulation under CLM Act not required	-31.86236594	152.3805752
WINGHAM	Bogas Service Station	Cnr Primrose Street and Isabella STREET	Service Station	Regulation under CLM Act not required	-31.86833656	152.3716346
WINMALEE	Prime Winmalee Service Station	281 Hawkesbury ROAD	Service Station	Regulation under CLM Act not required	-33.68223276	150.5997203
WIRJINGA	Former Liquid Waste Disposal Facility	704 Riverina ROAD	Unclassified	Regulation under CLM Act not required	-36.07103958	147.0193522
WOLLI CREEK	Former Ausgrid Substation 10061	13 Gertrude STREET	Other Industry	Regulation under CLM Act not required	-33.93364031	151.1543818
WOLLONGONG	Redevelopment site	33 - 39 Beatson STREET	Other Petroleum	Regulation under CLM Act not required	-34.43196083	150.8976661
WOLLONGONG	Caltex Service Station	9 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.41505616	150.8932515
WOLLONGONG	Greenhouse Park	Springhill ROAD	Landfill	Contamination currently regulated under CLM Act	-34.44119949	150.8931764
WOLLONGONG	Former Wollongong Gasworks	120 and 122 Smith STREET	Gasworks	Regulation under CLM Act not required	-34.42030173	150.8906745
WOLLONGONG	Woolworths Service Station	425 Crown STREET	Service Station	Contamination currently regulated under CLM Act	-34.42637378	150.8799288
WOLLONGONG	Wollongong Harbour Central Spur	Off Endeavour DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.42066879	150.906821
WOODBURN	Caltex Service Station	129 River STREET	Service Station	Regulation under CLM Act not required	-29.07206887	153.3409769

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WOODBURN	Crown Reserve 88037 Woodburn	Pacific HIGHWAY	Landfill	Regulation under CLM Act not required	-29.08580577	153.3541886
WOOLGOOLGA	Caltex Woolgoolga Service Station	16 Bosworth ROAD	Service Station	Regulation under CLM Act not required	-30.12569561	153.1946006
WOOLGOOLGA	United Petroleum Service Station	56 Clarence STREET	Service Station	Contamination currently regulated under CLM Act	-30.11045544	153.1904609
WOOLLAHRA	Former Service Station	20 Wallis STREET	Service Station	Regulation under CLM Act not required	-33.8901965	151.2372732
WOOLLAHRA	Proposed Jewish Care Centre	7-21 Saber STREET	Unclassified	Regulation under CLM Act not required	-33.8904055	151.2480062
WOOLLAHRA	Caltex Woollahra Service Station	116 Old South Head ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.88959697	151.2553736
WOOLLOOMOOLOO	Former BP Service Station	2 Dowley STREET	Service Station	Contamination being managed via the planning process (EP&A Act)	-33.86940191	151.2218741
WOLOMIN	Woolomin Gold Rush Store	65 Nundle ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-31.30415134	151.149729
WOOLLOOWARE	Caltex Service Station	100 Woollooware ROAD	Service Station	Regulation under CLM Act not required	-34.05274635	151.1408413
WOOLLOOWARE	Oyster Farm	Captain Cook DRIVE	Other Industry	Regulation under CLM Act not required	-34.03807914	151.1476055
WOONGARRAH	Former Warnervale Landfill	235-264 Hakone ROAD	Landfill	Regulation under CLM Act not required	-33.2376313	151.464362
WOOTTON	Former Chemical Spill Site	11859 Pacific HIGHWAY	Chemical Industry	Regulation under CLM Act not required	-32.28168548	152.3117819
WOY WOY	Mobil Former Woy Woy Service Station and adjacent land	177-181 Blackwall ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.49254403	151.3270829
WOY WOY	Barry Robertson Holden	231 Blackwall ROAD	Service Station	Regulation under CLM Act not required	-33.49621068	151.3285128
WOY WOY	Bogas Service Station	66 Memorial AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.5069738	151.3315579
WOY WOY	Rogers Park	Dunbar ROAD	Landfill	Regulation under CLM Act not required	-33.50009693	151.3181347

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WOY WOY	Austin Butler Memorial Oval	Blackwall ROAD	Landfill	Regulation under CLM Act not required	-33.48672201	151.3283032
WOY WOY	James Browne Oval	Welcome STREET	Landfill	Regulation under CLM Act not required	-33.49720596	151.3242986
WYALONG	Caltex Service Station	50 Needl (Newell Highway) STREET	Service Station	Regulation under CLM Act not required	-33.92665025	147.2446546
WYOMING	Caltex Service Station Wyoming	465 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.40945391	151.3499812
WYONG	Wyong Bayer/Kemcon	16 Lucca ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.26192339	151.4429446
WYONG	Caltex Service Station	M1 Pacific (Northbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25641477	151.4024821
WYONG	Caltex Service Station	M1 Pacific (Southbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25330747	151.4053862
WYONG	IXOM Facility	8 Pavitt CRESCENT	Other Industry	Regulation under CLM Act not required	-33.26379108	151.4485113
YAGOONA	Galserv Galvanising Services	117-153 Rookwood ROAD	Metal Industry	Contamination currently regulated under POEO Act	-33.89493085	151.0388013
YAGOONA	BP Service Station Potts Hill (Yagoona)	155 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89330525	151.0390969
YAGOONA	7-Eleven (Former Mobil) Service Station	519 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90760623	151.0207783
YAGOONA	Shell Coles Express Service Station	112 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89856213	151.0370458
YAGOONA	Sydney Water Corporation Potts Hill Complex	91 Brunker ROAD	Other Industry	Regulation under CLM Act not required	-33.89887589	151.0289165
YALLAH	Tallawarra Power Station site	Princes HIGHWAY	Unclassified	Ongoing maintenance required to manage residual contamination (CLM Act)	-34.52412143	150.8062159
YAMBA	Caltex Service Station	22 Treelands DRIVE	Service Station	Regulation under CLM Act not required	-29.42701701	153.3279204
YANCO	Former Service Station	14 Main AVENUE	Service Station	Contamination formerly regulated under the CLM Act	-34.60356494	146.4105016

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YASS	Caltex Service Station	228 Comur STREET	Service Station	Regulation under CLM Act not required	-34.84440036	148.9140179
YASS	Caltex Service Station	1715 Yass Valley WAY	Service Station	Regulation under CLM Act not required	-34.80708856	148.8824228
YASS	Former Mobil Depot Yass and adjacent land	54-58 Laidlaw STREET	Service Station	Ongoing maintenance required to manage residual contamination (CLM Act)	-34.83252976	148.9068888
YASS	Former Gasworks	Dutton STREET	Gasworks	Contamination currently regulated under CLM Act	-34.83987614	148.9060029
YASS	Transgrid Depot Yass	Perry STREET	Unclassified	Under assessment	-34.86238341	148.9052809
YENNORA	Former Alcoa Australia Rolled Products Facility - Area 3	1 Kiora CRESCENT	Metal Industry	Regulation under CLM Act not required	-33.86568158	150.9649297
YENNORA	Spicer Axle Australia Manufacturing Facility	205-231 Fairfield ROAD	Other Industry	Regulation under CLM Act not required	-33.85655114	150.9579167
YENNORA	Former Caltex Service Station	137-141 Fairfield STREET	Service Station	Regulation under CLM Act not required	-33.86824768	150.9706137
YENNORA	Former Metal Plant	44 Larra STREET	Metal Industry	Contamination formerly regulated under the CLM Act	-33.86340576	150.9764349
YENNORA	TetraPak Site	6 Foray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.8557183	150.9561605
YENNORA	19 Pine Road, Yennora	Pine ROAD	Metal Industry	Contamination currently regulated under CLM Act	-33.86713232	150.9621172
YETHOLME	Yetholme CCA Timber Treatment Plant	351 Eusdale ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.45386256	149.8537787
YOUNG	Former Mobil Depot and Service Station Young	149 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31024587	148.290424
YOUNG	Former Shell Depot	166 Nasmyth STREET	Other Petroleum	Regulation under CLM Act not required	-34.31025192	148.2931008
YOUNG	Former battery recycler	45 Nasmyth STREET	Metal Industry	Contamination currently regulated under CLM Act	-34.31201571	148.306772
YOUNG	Adjacent to former battery recycler	47 Nasmyth STREET	Metal Industry	Contamination formerly regulated under the CLM Act	-34.31176273	148.3064765

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YOUNG	Mobil Depot	186 Nasmyth STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.30954389	148.2908476
YOUNG	Former Caltex Depot	95 Lowell STREET	Service Station	Regulation under CLM Act not required	-34.31127119	148.2955092
ZETLAND	Energy Australia/ Ausgrid Zetland Depot	122 - 138 Joynton AVENUE	Other Industry	Regulation under CLM Act not required	-33.90883116	151.2101184
ZETLAND	Former Goodrich Control Systems, Zetland	84 - 92 Epsom ROAD	Other Industry	Regulation under CLM Act not required	-33.91025707	151.2078048

[Home](#) [Public registers](#) [Contaminated land record of notices](#)

## Search results

Your search for: LGA: CANTERBURY-BANKSTOWN COUNCIL

Matched 58 notices  
relating to 16 sites.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
CAMPSIE	403 Canterbury Road and 1 Una STREET	<a href="#">Budget Petroleum and adjacent property</a>	1 current
CAMPSIE	60 Charlotte STREET	<a href="#">Former Sunbeam factory</a>	4 former
CANTERBURY	13-19 Canterbury ROAD	<a href="#">Metro Petroleum Service Station</a>	2 current
CHESTER HILL	127 Orchard ROAD	<a href="#">Former Orica - Chester Hill</a>	4 former
EARLWOOD	3 Jackson PLACE	<a href="#">RTA Land</a>	2 current
HURLSTONE PARK	610 - 618 New Canterbury ROAD	<a href="#">Former Speedway Petroleum Service Station</a>	3 former
PADSTOW	55 Bryant STREET	<a href="#">Former Exide Battery Manufacturing &amp; Recycling</a>	2 current and 1 former
PUNCHBOWL	42-44 Belmore ROAD	<a href="#">Punchbowl Laundry</a>	3 current
REVESBY	21 Marigold STREET	<a href="#">Mirotone Pty Ltd</a>	3 former
REVESBY	33-35 Violet STREET	<a href="#">Thetis Pty Ltd - Bituminous Products</a>	3 current and 6 former
VILLAWOOD	2A Birmingham AVENUE	<a href="#">Ettason Villawood Site</a>	2 current
VILLAWOOD	66 Christina ROAD	<a href="#">Former Electrical Component Manufacturer</a>	1 current and 6 former
VILLAWOOD	2 Christina ROAD	<a href="#">Former Orica Crop Care</a>	2 current and 2 former
VILLAWOOD	49 Miowera ROAD	<a href="#">Former Siemens/Westinghouse</a>	9 former
VILLAWOOD	110A Christina ROAD	<a href="#">Nepotian (Former Toll) Site</a>	1 current
YAGOONA	117-153 Rookwood ROAD	<a href="#">Galserv Galvanising Services</a>	1 current

Page 1 of 1

24 November 2020

**For business and industry** ^

**For local government** ^

### Contact us

131 555 (tel:131555)

Online (<https://yoursay.epa.nsw.gov.au/epa-website-feedback>)

[info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au) (<mailto:info@epa.nsw.gov.au>)

EPA Office Locations (<https://www.epa.nsw.gov.au/about-us/contact-us/locations>)

[Accessibility \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)

[Disclaimer \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)

[Privacy \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)

[Copyright \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

**in**

(<https://au.linkedin.com/company/nsw-environment-protection>)

**ns**

**environment-**



<https://www.youtube.com/watch?v=NSwAPASjrgA>



<https://www.facebook.com/NSwAPASjrgA>



<https://www.instagram.com/NSwAPASjrgA>

Find us on

# Appendix E



## Photographic Log



**PHOTOGRAPHIC LOG**


PHOTOGRAPHIC LOG					
Client Name: NSW LAHC		Site Location: Riverwood		Project No. 60518855	
Photo No. 1		Date: 31/01/2017			
Description:  Low density residential dwellings along Florida Crescent in the southern portion of the Study Area.					
Photo No. 2		Date: 31/01/2017			
Description:  Medium-density residential dwellings were located on northern side of Kentucky Road north-west in the Study Area. These properties were located adjacent to Salt Pan Reserve, seen left of frame.					



**PHOTOGRAPHIC LOG**



<b>Client Name:</b> NSW LAHC		<b>Site Location:</b> Riverwood	<b>Project No.</b> 60518855
<b>Photo No.</b> <b>3</b>	<b>Date:</b> 31/01/2017		
<b>Description:</b>  High-density residential dwellings were located in the centre of the Study Area, here facing west from Virginia Avenue.			
<b>Photo No.</b> <b>4</b>	<b>Date:</b> 31/01/2017		
<b>Description:</b>  A childcare centre is located on Roosevelt Avenue, on the south-eastern portion of the Study Area.			

PHOTOGRAPHIC LOG		
<b>Client Name:</b> NSW LAHC		<b>Site Location:</b> Riverwood
		<b>Project No.</b> 60518855
<b>Photo No.</b> 5	<b>Date:</b> 31/01/2017	<div> <p><b>Description:</b></p> <p>Concrete slabs were observed adjacent to the high-rise dwellings on Virginia Place. These slabs appear to be remnants of former structures.</p> </div> 
<b>Photo No.</b> 6	<b>Date:</b> 31/01/2017	<div> <p><b>Description:</b></p> <p>Evidence of cut and fill along Roosevelt Avenue, which is located beyond the car park roof at the same elevation as the roof. Roosevelt Avenue was up to 2 m higher than where the high-rise buildings were constructed (right of frame). Retaining walls were visible across this area.</p> </div> 



PHOTOGRAPHIC LOG			
Client Name: NSW LAHC		Site Location: Riverwood	Project No. 60518855
Photo No. 7	Date: 31/01/2017		
Description:  Numerous mounds were observed around the high-rise dwellings bordered by Washington Avenue, Virginia Place and Roosevelt Avenue.			
Photo No. 8	Date: 31/01/2017		
Description:  Vegetation in the Study Area appeared to be healthy, such as on Kentucky Road (pictured).			

PHOTOGRAPHIC LOG				
<b>Client Name:</b> NSW LAHC		<b>Site Location:</b> Riverwood		<b>Project No.</b> 60518855
<b>Photo No.</b> <b>9</b>	<b>Date:</b> 31/01/2017			
<b>Description:</b>  Erosion was observed along the nature strips in the Study Area, with exposed soils below the level of the footpaths and service manholes.				
<b>Photo No.</b> <b>10</b>	<b>Date:</b> 31/01/2017			
<b>Description:</b>  Potential evidence of subsidence was observed on the footpath between Michigan Road and Wyoming Place. The cracks and gap between the footpath and underlying soil (see Photo 11) may alternatively be due to a poor state of repair.				

PHOTOGRAPHIC LOG		
<b>Client Name:</b> NSW LAHC		<b>Site Location:</b> Riverwood
		<b>Project No.</b> 60518855
<b>Photo No.</b> <b>11</b>	<b>Date:</b> 31/01/2017	<div>  </div>
<b>Description:</b>  Potential evidence of subsidence was observed on the footpath between Michigan Road and Wyoming Place.		
<b>Photo No.</b> <b>12</b>	<b>Date:</b> 31/01/2017	<div>  </div>
<b>Description:</b>  Mound associated with the closed landfill at Salt Pan Reserve.		

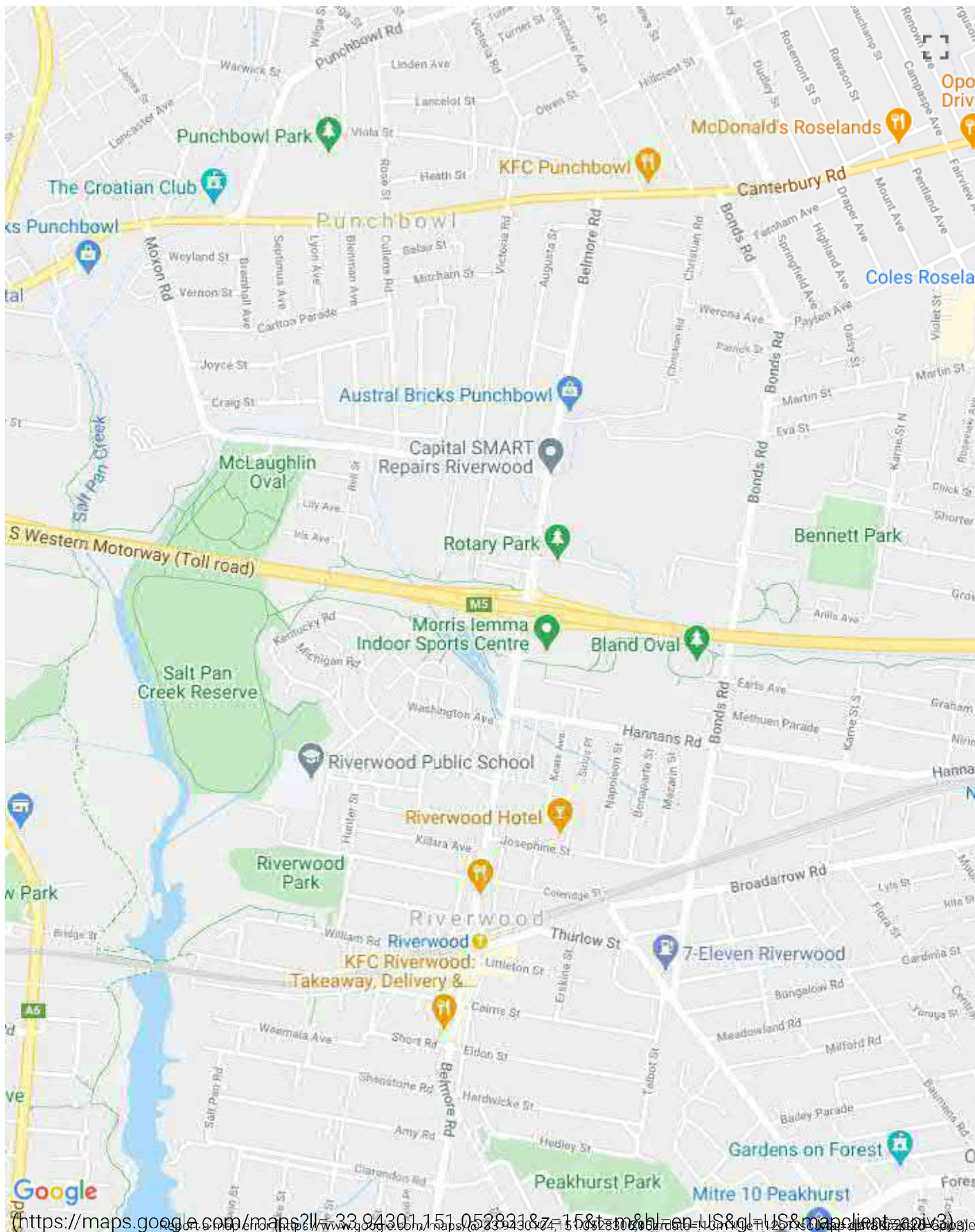
PHOTOGRAPHIC LOG			
<b>Client Name:</b> NSW LAHC		<b>Site Location:</b> Riverwood	<b>Project No.</b> 60518855
<b>Photo No.</b> <b>13</b>	<b>Date:</b> 31/01/2017		
<b>Description:</b>  Playing field as part of Salt Pan Reserve adjacent to the Study Area to the west.  The former Salt Pan Tip can be seen as the mound in the background			
<b>Photo No.</b> <b>14</b>	<b>Date:</b> 31/01/2017		
<b>Description:</b>  Riverwood Public School, located adjacent to the Study Area to the west.			

**PHOTOGRAPHIC LOG**

<b>Client Name:</b> NSW LAHC		<b>Site Location:</b> Riverwood	<b>Project No.</b> 60518855
<b>Photo No.</b> <b>15</b>	<b>Date:</b> 31/01/2017		
<b>Description:</b>  Medium density residential dwelling on Kentucky Road in the northern portion of the Study Area. The new development as part of Riverwood North can be seen next to (right of frame) the older property within the Study Area.			
<b>Photo No.</b> <b>16</b>	<b>Date:</b> 31/01/2017		
<b>Description:</b>  Commercial properties were observed along Belmore Road North to the south-east of the Study Area.			

# Appendix F

## UXO Search



# Appendix G

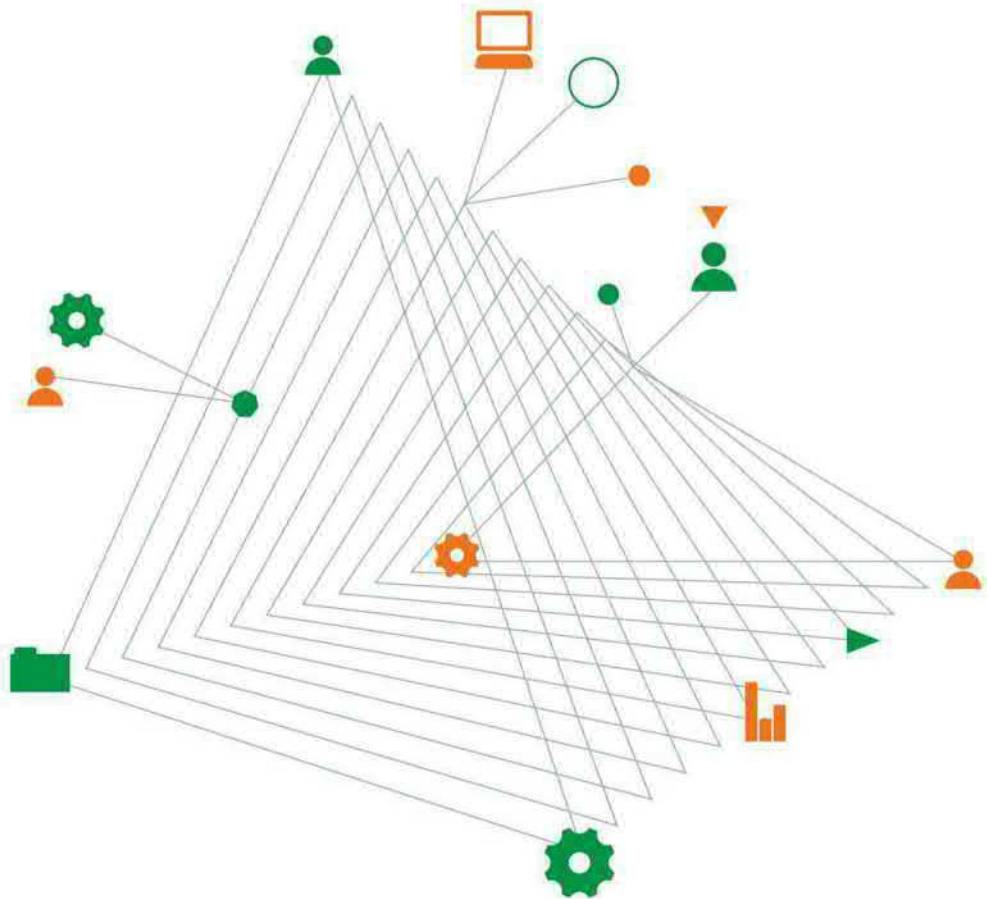
## Salt Pan Creek Monitoring

**Canterbury-Bankstown Council**

**Salt Pan Creek Landfill Closure – Report on  
Groundwater Review 12 Months Following  
Closure Work**

Kentucky Road, Riverwood NSW

5 September 2019



Experience  
comes to life  
when it is  
powered by  
expertise

This page has been left intentionally blank

# Salt Pan Creek Landfill Closure – Report on Groundwater Review 12 Months Following Closure Work

Prepared for  
Canterbury-Bankstown Council

Prepared by  
Coffey Environments Australia Pty Ltd  
Level 19, Tower B, 799 Pacific Highway  
Chatswood NSW 2067 Australia  
t: +61 2 9406 1000 f: +61 2 9406 1002  
ABN: 65 140 765 902

<b>Project Director</b>	Sam Gunasekera Senior Principal
<b>Project Manager</b>	Edward Wu Senior Associate Environmental Engineer

5 September 2019

754-SYDEN195724-R13

## Quality information

### Revision history

Revision	Description	Date	Author	Reviewer	Approver
R13a	Draft A	29 August 2019	Edward Wu	Sam Gunasekera	Edward Wu
R13	Final	5 September 2019	Edward Wu	Minor edits only	Edward Wu

### Distribution

Report Status	No. of copies	Format	Distributed to	Date
R13	1	PDF	Canterbury-Bankstown Council	5 September 2019

# Table of contents

1. Introduction.....	1
2. Objective.....	1
3. Landfill Closure.....	1
4. Historical Groundwater Monitoring .....	2
5. Groundwater & Surface Water Monitoring 2019 .....	2
6. Effectiveness of Capping Works in Groundwater Quality .....	4
7. Recommendations for Future Management.....	4
8. Limitations .....	5

Important Information About Your Coffey Environmental Report

## Figures

Figure 1 – Ammonia Distribution July 2019

## Appendices

Appendix A – Monitoring Results Provided to Coffey

# 1. Introduction

Canterbury-Bankstown Council (Council) engaged Coffey Environments Australia Pty Ltd (Coffey) to carry out a groundwater review, 12 months following completion of the capping earthworks for the closure of Salt Pan Creek Landfill located on Kentucky Road, Riverwood NSW (the site). The capping earthworks were completed to satisfy the NSW EPA's Variation of Surrender Condition (Notice 1563139 dated 26 March 2018).

As a condition of Approval of the Surrender of Licence No. 10636 (NSW EPA Notice 1535352, dated 15 March 2016), the NSW EPA requires Council, no later than 12 months after completion of the capping earthworks for the landfill closure, to submit a report that provides:

1. Groundwater monitoring results required by the Notice 1535352
2. An assessment, based on the groundwater monitoring results, of the effectiveness, or otherwise, of the works in mitigating the apparent impacts on groundwater due to past activities at the site
3. Recommendations for future management of the site, including but not limited to:
  - i. the proposed future/ongoing groundwater monitoring regime
  - ii. whether additional groundwater monitoring wells are required
  - iii. the future/ongoing maintenance regime of the site in general and the rehabilitated surface, with consideration to the proposed end use of the site
  - iv. any other proposed works to improve the environmental performance of the site

# 2. Objective

The objective of this report is to present a groundwater review to assist Council in meeting the aforementioned 12 months post capping earthworks report.

# 3. Landfill Closure

Council held Environment Protection Licence (EPL) No. 10636 for the landfilling activities carried out at the site. The licence was surrendered on 15 March 2016 by Notice No. 1535352, subject to a number of conditions. Condition 2(e) required the final capping works to be completed in accordance with Earth 2 Water (2014) Closure/Rehabilitation of Salt Pan Creek Landfill, The Concept Plan (ref: E2W-204 R001, known as the Concept Plan).

The Concept Plan referenced a letter issued by NSW EPA to Council on 5 June 2015, titled "Canterbury City Council – Salt Pan Creek Landfill Rehabilitation and Issues Report". One of the capping options accepted by NSW EPA was:

- With properly compacted impervious material with a minimum thickness of 600mm (impervious material meaning clay type material which, properly compacted, will form an impervious barrier to water) installed generally on those areas of the existing surface that do not have an inferred or potential clay cap, as depicted in Figure 3B of the Concept Plan.

To meet this requirement, Council engaged Coffey to undertake further investigations, detailed design and construction advice to facilitate completion of the capping works. As such, Figure 3B of the

Concept Plan was further refined, following Coffey's investigations. Areas of landfill cap not meeting a minimal thickness of 600mm were identified.

Council subsequently carried out the capping works to reinstate the areas of landfill cap not meeting the minimal thickness of 600mm, in accordance with Coffey's design documents:

- Coffey (2018) Design and General Notes (Ref: 195724-GD-001 to 195724-GD-004), dated 11 May 2018

The capping works were completed and documented in the following report:

- Coffey (2019) Salt Pan Creek Landfill Closure – Construction Quality Assurance Report, Ref: SYDEN195724-R10, dated 24 October 2018

## **4. Historical Groundwater Monitoring**

Up to eight existing groundwater monitoring wells around the landfill perimeter (SW1, GW2, GW3, GW4, GW5, GW5A, GW6, GW7) were historically monitored between February 2012 and May 2015. The results were provided to Coffey for review. Coffey understands these results were abstracts from a report prepared by Earth2Water Pty Ltd in 2015. These results are reproduced in Appendix A.

## **5. Groundwater & Surface Water Monitoring 2019**

As a condition of Approval of the Surrender of Licence No. 10636 (NSW EPA Notice 1535352, dated 15 March 2016), the NSW EPA requires Council to carry out groundwater and surface water monitoring annually.

As part of this condition, eight additional groundwater monitoring wells were installed by Earth2Water Pty Ltd on 1 to 2 July 2019.

Future-Plus Environmental Pty Ltd subsequently carried out the monitoring on 22 July 2019:

- A total of 16 groundwater monitoring wells (eight existing wells and eight new wells) were monitored: GW1, GW1S (new), GW2, GW3, GW3S (new), GW4, GW5, GW5A, GW6, GW6S (new), GW7, GW8D (new), GW8S (new), GW9S (new), GW10S (new) and GW11S (new)
- A total of three surface water locations at the adjacent Salt Pan Creek were monitored: UP, MID and DN

Results of the monitoring were provided to Coffey for review. The results are reproduced in Appendix A.

Concentrations of selected key parameters were compared against historical data. A summary of the results is presented in Table 1.

Table 1: Summary of Key Parameters

	Ammonia (mg/L)			pH			TDS (mg/L)		
	Jul-19	Min	Max	Jul-19	Min	Max	Jul-19	Min	Max
<b>Groundwater</b>									
GW1	0.07	0.05	0.49	5.62	4.91	5.88	4950	2390	4170
GW2	0.09	0.13	0.82	5.96	5.79	6.72	6260	4790	6510
GW3	0.09	0.05	0.59	6.28	6.44	7.16	11280	8780	11800
GW4	1.4	<0.01	0.13	6.45	7.03	7.87	891	378	1170
GW5	350	662	963	7.29	7.46	8.24	4180	3180	5000
GW5A	21	19.2	42.6	7.33	7.23	7.88	10500	4080	16700
GW6	7.9	6.22	15.2	6.87	7.08	7.8	27500	16800	29200
GW7	7.5	1.83	11.3	6.92	7.14	7.98	11730	1510	8990
GW1S	0.12	NA	NA	5.5	NA	NA	2760	NA	NA
GW3S	DRY	NA	NA	DRY	NA	NA	DRY	NA	NA
GW6S	19	NA	NA	6.67	NA	NA	10100	NA	NA
GW8D	360	NA	NA	7.29	NA	NA	4970	NA	NA
GW8S	370	NA	NA	7.18	NA	NA	4940	NA	NA
GW9S	53	NA	NA	7.12	NA	NA	1760	NA	NA
GW10S	8.1	NA	NA	DRY	NA	NA	DRY	NA	NA
GW11S	5.1	NA	NA	7.34	NA	NA	1400	NA	NA
<b>Surfacewater</b>									
UP	0.63	NA	NA	7.46	NA	NA	15600	NA	NA
MID	0.48	NA	NA	7.3	NA	NA	17390	NA	NA
DN	0.7	NA	NA	7.08	NA	NA	15500	NA	NA

Note: Historical minimum (Min) and maximum (Max) values were taken from a report prepared by Earth2Water for period between December 2013 and May 2015; Results (July 2019) outside the respective historical range are highlighted; Insufficient sample was available at GW10S for full suite of testing

The following observations were made:

- The groundwater monitoring results from the July 2019 monitoring event did not indicate substantial changes to the ammonia and total dissolved solids (TDS) concentrations when compared against available historical data. TDS increased slightly at GW1 and GW7. In addition, there appears to be a minor drop in pH values in a number of monitoring wells. The increase in TDS and the minor drop in pH values may be associated with a range of factors (eg. dry seasons), potentially not related to the recent capping works at the site.
- Groundwater is expected to flow towards Salt Pan Creek which forms the western boundary of the site. Concentrations of ammonia at monitoring wells along the western site boundary (GW5A, GW6, GW6S, GW7, GW10S, GW11S) were reported to be relatively low (up to 21mg/L) in the July 2019 monitoring event.
- Historical surface water monitoring data is not available for comparison purposes. However, concentrations of ammonia, TDS and pH in surface water samples in the July 2019 monitoring event were generally consistent between up-gradient, mid-gradient and down-gradient locations.
- Ammonia concentrations in the July 2019 monitoring event at up-gradient, mid-gradient and down-gradient surface water monitoring locations were reported to be below the ANZG (2019)'s default guideline value (DGV) of 0.91mg/L for protection of marine water (95% species protection). At these ammonia levels, there is a relatively low likelihood of unacceptable impacts posed on the aquatic ecosystem in Salt Pan Creek.

## 6. Effectiveness of Capping Works in Groundwater Quality

The capping works involved placing and compacting clayey material to reinstate areas of the landfill cap previously not meeting the minimal thickness of 600mm. The capping works covered less than 10% of the capped surface. Given the nature of the capping works, Coffey does not expect such works would result in significant or measurable changes in the overall infiltration volume and pattern. Therefore, groundwater quality at the monitoring wells are not expected to change significantly.

Whilst this may not be measurable, Coffey considers that the capping works would reduce localised surface water ponding and infiltration in areas where capping works were carried out.

## 7. Recommendations for Future Management

With respect to groundwater and in reference to Condition 2(q)iii of Approval of the Surrender of Licence No. 10636, Coffey's recommendations for future management of groundwater are summarised in Table 2.

Table 2: Recommendations for Future Management

Item	Recommendations
Future/ongoing groundwater monitoring regime	The groundwater monitoring regime as outlined in Condition 2(r) of the Approval of the Surrender of Licence No. 10636 provides a reasonable basis to assess contamination status and trends in groundwater. The regime covers a range of chemicals of potential concern including heavy metals, nitrogen suite (including ammonia) and pesticides, tested on a yearly basis. Coffey recommends future/ongoing groundwater monitoring to be carried out as per Condition 2(r) of the Approval of the Surrender of Licence No. 10636. The regime should be reviewed yearly subject to findings (eg. if unusual trends identified) or changes in land use.
Requirements for additional groundwater monitoring wells	The additional eight groundwater monitoring wells (based on the Concept Closure Plan) as required in Condition 2(r) of the Approval of the Surrender of Licence No. 10636 have been installed. The current groundwater monitoring network, comprising eight existing wells and eight new wells, as outlined in Condition 2(r) of the Approval of the Surrender of Licence No. 10636 provides a reasonable level of coverage, including up-gradient and down-gradient wells. Coffey recommends future/ongoing groundwater monitoring to be carried out as per Condition 2(r) of the Approval of the Surrender of Licence No. 10636. The monitoring network should be reviewed yearly subject to findings (eg. if unusual trends identified) or changes in land use.
Future/ongoing maintenance of the site	Coffey recommends future/ongoing maintenance regime to comprise: <ul style="list-style-type: none"> <li>Grass cover to be maintained/mowed regularly</li> <li>Cap surface and embankment/batters to be inspected following heavy</li> </ul>

	<p>storm events, flooding and other events that could cause damage to the cap (eg. use/driving of construction equipment on the cap and slopes)</p> <ul style="list-style-type: none"> <li>Evidence of water ponding, degradation or damage, such as settlement, cracking or erosion, should be rectified as soon as practicable</li> </ul>
Other proposed works to improve the environmental performance	<p>Coffey recommends the effectiveness of the existing leachate collection system and leachate management should be further reviewed with the objective to improve its performance.</p> <p>Coffey understands that a Concept Masterplan (Environmental Partnership, 12 December 2018) has been prepared for the wider Salt Pan Creek Reserve comprising the Salt Pan Creek Landfill, and the adjoining McLaughlin Oval and Whitmarsh Reserve. The Concept Masterplan outlines the vision “to provide for multiple recreational uses that engage a broad cross section of community, and that celebrates the Salt Pan Creek location and setting”. If the Masterplan concept is accepted and implemented, it is anticipated that the site landform will be significantly reworked, and the works will entail the redesign of the cap and the batters. It is also expected that the implementation of the Masterplan will also address leachate and stormwater management measures.</p> <p>Coffey recommends a long-term environmental management plan to be prepared for the future/ongoing maintenance regime of the Masterplan. The plan will include health and safety requirements including the provision of appropriate work permits to conduct intrusive works on site (such as subsurface maintenance workers).</p> <p>Future development of the Salt Pan Creek Landfill will be undertaken in accordance with relevant environmental management guidelines as detailed in NSW EPA (2016) Environmental Guidelines: Solid Waste Landfills, Second Edition.</p>

## 8. Limitations

This report was prepared based on third party data provided to Coffey. Coffey cannot warrant the accuracy of third-party data. It is the nature of contaminated land and geology that the degree of variability in site conditions cannot be known completely and no sampling and analysis program can eliminate all uncertainty concerning the condition of the site. Professional judgement must be exercised when interpretation of this report.



This page has been left intentionally blank

## **Appendix A – Monitoring Results Provided to Coffey**

This page has been left intentionally blank

Parameter/analyte	Units	LOR	22/07/2019																				
			GW-1	GW-1S	GW-2	GW-3	GW-3S	GW-4	GW-5	GW-5A	GW-6	GW-6S	GW-7	GW-8D	GW-8S	GW-9S	GW-10S	GW-11S	GW-QA	GW-B	SW-UP	SW-MID	SW-DN
Standing water level	mBTOC	N/A	0.6	0.88	2.48	2.2	3.04	1.52	0.66	3.45	4.32	2.03	3.56	1.34	1.27	2.75	2.5	2.42	N/A	N/A	N/A	N/A	N/A
Standing water level	mAHD	N/A	6.841	5.657	4.73	2.66	1.573	1.36	3.829	ID	-0.108	1.577	0.656	3.049	3.022	1.404	0.983	1.001	N/A	N/A	N/A	N/A	N/A
Top of GW well	mAHD	N/A	7.441	6.537	7.21	4.86	4.613	2.88	4.489	ID	4.212	3.607	4.216	4.389	4.292	4.154	3.483	3.421	N/A	N/A	N/A	N/A	N/A
pH	pH units	N/A	5.62	5.5	5.96	6.28	DRY	6.45	7.29	7.33	6.87	6.67	6.92	7.29	7.18	7.12	IS	7.34	N/A	N/A	7.46	7.3	7.08
Conductivity	µS/cm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24220	25820	24090
Total dissolved solids	ppm	N/A	4950	2760	6360	11280	DRY	891	4180	10500	27500	10100	11730	4970	4940	1760	IS	1400	N/A	N/A	15600	17300	35500
Alkalinity (as calcium carbonate)	mg/L	5	76	44	140	360	DRY	200	2200	970	1200	530	770	2300	2200	930	IS	1100	2200	<5	120	120	120
Aluminium	µg/L	5	160	980	320	8	DRY	7	26	<5	<5	9	5	15	12	8	27	<5	12	<5	29	27	23
Arsenic	µg/L	1	<1	<1	<1	<1	DRY	<1	3	1	<1	3	3	6	4	1	6	2	4	<1	<1	<1	<1
Barium	µg/L	1	18	32	19	7	DRY	260	200	710	830	3000	1100	530	430	570	120	950	420	<1	59	49	53
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	DRY	<0.5	8.4	<0.5	<0.5	<0.5	<0.5	22	18	1.4	<0.5	<0.5	17	<0.5	<0.5	<0.5	<0.5
Cadmium	µg/L	0.1	0.7	0.1	0.3	5.8	DRY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	mg/L	0.2	9.9	8.7	14	78	DRY	43	81	200	320	170	170	47	50	120	37	200	50	<0.2	180	190	170
Chloride	mg/L	1	1900	720	2500	4800	DRY	230	660	4500	13000	4500	4700	930	960	340	450	540	920	<1	7700	8400	7400
Chromium (hexavalent)	mg/L	0.004	<0.004	<0.004	<0.004	<0.004	DRY	<0.004	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium (total)	mg/L	1	<1	<1	<1	<1	DRY	<1	20	1	<1	4	3	23	26	2	<1	<1	26	<1	<1	<1	<1
Cobalt	µg/L	1	210	140	160	81	DRY	11	27	6	6	10	5	24	23	6	2	4	23	<1	<1	<1	<1
Copper	µg/L	1	<1	2	<1	<1	DRY	1	<1	<1	<1	<1	<1	2	<1	1	<1	2	<1	<1	2	1	2
Ethyl benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	DRY	<0.5	3.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoride	mg/L	0.1	0.43	1	2.2	2	DRY	<0.1	<0.1	0.43	<2	<0.4	1.2	<0.2	<0.1	<0.1	<0.1	0.19	<0.2	<0.1	1.3	1.2	1
Lead	µg/L	1	<1	<1	<1	<1	DRY	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Magnesium	mg/L	0.1	85	34	140	410	DRY	29	43	280	930	210	260	48	46	52	25	99	47	<0.1	480	540	480
Manganese	µg/L	1	20000	4900	6400	3700	DRY	480	380	450	1000	240	1200	180	69	130	2	500	68	<1	43	49	58
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	DRY	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nitrate	mg/L	0.005	<0.05	<0.025	<0.05	<0.1	DRY	0.049	<0.05	<0.1	<0.5	<0.1	<0.1	<0.05	<0.05	<0.025	<0.025	<0.025	<0.05	<0.005	0.22	0.13	0.23
Nitrite	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	DRY	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	0.058	0.043	0.061
Nitrogen (ammonia)	mg/L	0.01	0.07	0.12	0.09	0.09	DRY	1.4	350	21	7.9	19	7.5	360	370	53	8.1	5.1	370	<0.01	0.63	0.48	0.7
Organochlorine pesticides	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	DRY	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Organophosphate pesticides	µg/L	Various	<LOR	<LOR	<LOR	<LOR	DRY	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR
Phosphorus (total)	mg/L	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.21	0.11	0.14
Potassium	mg/L	0.1	13	7.9	25	60	DRY	5.3	200	170	420	75	160	190	180	40	34	25	190	<0.1	230	260	240
Sodium	mg/L	0.5	1400	810	1700	2800	DRY	160	520	2700	7800	2600	2700	820	790	270	360	370	750	<0.5	4200	4600	4100
Sulphate	mg/L	1	580	710	550	580	DRY	56	11	210	910	74	100	14	12	100	55	79	13	<1	1000	1200	980
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	DRY	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Phenolics	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	DRY	<0.01	0.03	<0.01	<0.01	0.01	<0.01	0.03	0.03	<0.01	N.A.	<0.01	0.02	0.02	0.02	0.02	0.04
Total organic carbons	mg/L	0.2	17	12	5.2	3.9	DRY	15	190	89	46	260	160	170	150	210	72	150	150	0.4	5.4	5.3	6
Total PAH(18)	µg/L	1	<1	<1	<1	<1	DRY	<1	19	<1	<1	1	<1	10	7	150	N.A.	8	5	<1	<1	<1	<1
Total petroleum hydrocarbons																							
TRH C10-C14	µg/L	50	<50	<50	<50	<50	DRY	<50	600	<50	<50	380	57	1000	800	93	IS	<50	770	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200	DRY	<200	1500	270	<200	890	420	2900	2000	2000	IS	470	1800	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200	DRY	<200	1000	<200	<200	<200	440	1100	390	3300	IS	570	360	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	DRY	<200	<200	<200	<200	<200	240	<200	1300	IS	<200	<200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	<60	<60	DRY	<60	730	<60	<60	530	74	1500	1100	170	IS	<60	1100	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500	DRY	<500	2000	<500	<500	840	680	3100	1900	3900	IS	820	1700	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	DRY	<500	530	<500	<500	<500	<500	670	<500	2700	IS	<500	<500	<500	<500	<500	<500
TRH C10-C36	µg/L	450	<450	<450	<450	<450	DRY	<450	3200	<450	<450	1300	910	5000	3100	5500	IS	1000	3000	<650	<650	<650	<650
TRH C10-C40	µg/L	650	<650	<650	<650	<650	DRY	<650	3200	<650	<650	1300	910	5200	3100	6800	IS	1000	3000	<650	<650	<650	<650
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60	<60	DRY	<60	730	<60	<60	530	74	1500	1100	170	IS	<60	1100	<60	<60	<60	<60
Total suspended solids	mg/L	N/A	N/A	N/A	N/A	N/A	DRY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	9
Xylene	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	DRY	<1.5	15	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Zinc	µg/L	5	330	280	190	830	DRY	10	15	7	<5	8	<5	16	24	9	<5	<5	26	<5	34	34	36

Notes:  
IS = Insufficient sample  
DRY = Groundwater well was dry  
N/A = Not Applicable  
ID = Insufficient Data  
**BOLD** = detection of analyte

## CLIENT DETAILS

Contact Kaine Pritchard  
Client FUTURE-PLUS ENVIRONMENTAL  
Address PO BOX 1250  
BUDDINA QLD 4575

Telephone 07 5450 2688 / 0404 493 811  
Facsimile 07 5450 2686  
Email kaine@future-plus.com.au

Project 4599-190722  
Order Number 1250, Buddina Q 4575  
Samples 20

## LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

SGS Reference SE195604 R0  
Date Received 23 Jul 2019  
Date Reported 31 Jul 2019

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

Anions - Ion Chromatography - The Limit of Reporting (LOR) has been raised due to high conductivity of the sample requiring dilution.

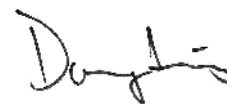
## SIGNATORIES



Akheevar Beniamen  
Chemist



Bennet Lo  
Senior Organic Chemist/Metals Chemis



Dong Liang  
Metals/Inorganics Team Leader



Ly Kim Ha  
Organic Section Head



Shane McDermott  
Inorganic/Metals Chemist

Parameter	Units	LOR	Sample Number	SE195604.001	SE195604.002	SE195604.003	SE195604.004
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW1	SPC-GW1S	SPC-GW2	SPC-GW3

### VOCs in Water Method: AN433 Tested: 26/7/2019

#### Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

#### Polycyclic VOCs

Naphthalene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
-------------	------	-----	------	------	------	------

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	112	107	111	111
d4-1,2-dichloroethane (Surrogate)	%	-	121	115	116	120
d8-toluene (Surrogate)	%	-	103	101	99	97
Bromofluorobenzene (Surrogate)	%	-	94	95	97	97

#### Totals

Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3

### Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 26/7/2019

TRH C6-C10	µg/L	50	<50	<50	<50	<50
TRH C6-C9	µg/L	40	<40	<40	<40	<40

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	112	107	111	111
d4-1,2-dichloroethane (Surrogate)	%	-	121	115	116	120
d8-toluene (Surrogate)	%	-	103	101	99	97
Bromofluorobenzene (Surrogate)	%	-	94	95	97	97

#### VPH F Bands

Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50



## ANALYTICAL REPORT

SE195604 R0

Parameter	Units	LOR	Sample Number	SE195604.001	SE195604.002	SE195604.003	SE195604.004
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW1	SPC-GW1S	SPC-GW2	SPC-GW3

**TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 25/7/2019**

TRH C10-C14	µg/L	50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH C10-C36	µg/L	450	<450	<450	<450	<450
TRH C10-C40	µg/L	650	<650	<650	<650	<650

## TRH F Bands

TRH >C10-C16	µg/L	60	<60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500

**PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 25/7/2019**

Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1

## Surrogates

d5-nitrobenzene (Surrogate)	%	-	<b>74</b>	<b>64</b>	<b>64</b>	<b>74</b>
2-fluorobiphenyl (Surrogate)	%	-	<b>74</b>	<b>72</b>	<b>68</b>	<b>84</b>
d14-p-terphenyl (Surrogate)	%	-	<b>78</b>	<b>76</b>	<b>72</b>	<b>88</b>

**OC Pesticides in Water Method: AN420 Tested: 25/7/2019**

Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	Sample Number	SE195604.001	SE195604.002	SE195604.003	SE195604.004
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW1	SPC-GW1S	SPC-GW2	SPC-GW3

### OC Pesticides in Water Method: AN420 Tested: 25/7/2019 (continued)

p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

#### Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	<b>74</b>	<b>62</b>	<b>72</b>	<b>77</b>
---	---	---	-----------	-----------	-----------	-----------

### OP Pesticides in Water Method: AN420 Tested: 25/7/2019

Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2

#### Surrogates

2-fluorobiphenyl (Surrogate)	%	-	<b>74</b>	<b>72</b>	<b>68</b>	<b>84</b>
d14-p-terphenyl (Surrogate)	%	-	<b>78</b>	<b>76</b>	<b>72</b>	<b>88</b>

### Total Phenolics in Water Method: AN289 Tested: 29/7/2019

Total Phenols	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
---------------	------	------	-------	-------	-------	-------

### Anions by Ion Chromatography in Water Method: AN245 Tested: 25/7/2019

Fluoride	mg/L	0.1	<b>0.43</b>	<b>1.0</b>	<b>2.2</b>	<b>2.0</b>
Chloride	mg/L	1	<b>1900</b>	<b>720</b>	<b>2500</b>	<b>4800</b>
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.050 †	<0.025 †	<0.050 †	<0.10 †
Sulfate, SO4	mg/L	1	<b>580</b>	<b>710</b>	<b>550</b>	<b>580</b>

Parameter	Units	LOR	Sample Number	SE195604.001	SE195604.002	SE195604.003	SE195604.004
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW1	SPC-GW1S	SPC-GW2	SPC-GW3

### Alkalinity Method: AN135 Tested: 26/7/2019

Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	76	44	140	360
---------------------------------------	------	---	----	----	-----	-----

### Nitrite in Water Method: AN277 Tested: 25/7/2019

Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
--	------	-------	--------	--------	--------	--------

### Ammonia Nitrogen by Discrete Analyser (Aquakem) Method: AN291 Tested: 25/7/2019

Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	0.07	0.12	0.09	0.09
--	------	------	------	------	------	------

### Forms of Carbon Method: AN190 Tested: 25/7/2019

Total Organic Carbon as NPOC	mg/L	0.2	17	12	5.2	3.9
------------------------------	------	-----	----	----	-----	-----

### Total and Volatile Suspended Solids (TSS / VSS) Method: AN114 Tested: 29/7/2019

Total Suspended Solids Dried at 103-105°C	mg/L	5	-	-	-	-
---	------	---	---	---	---	---

### Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 25/7/2019

Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	<0.004	<0.004	<0.004
---------------------------------------	------	-------	--------	--------	--------	--------

Parameter	Units	LOR	Sample Number	SE195604.001	SE195604.002	SE195604.003	SE195604.004
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW1	SPC-GW1S	SPC-GW2	SPC-GW3

### Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 25/7/2019

Calcium, Ca	mg/L	0.2	<b>9.9</b>	<b>8.7</b>	<b>14</b>	<b>78</b>
Magnesium, Mg	mg/L	0.1	<b>85</b>	<b>34</b>	<b>140</b>	<b>410</b>
Potassium, K	mg/L	0.1	<b>13</b>	<b>7.9</b>	<b>25</b>	<b>60</b>
Sodium, Na	mg/L	0.5	<b>1400</b>	<b>810</b>	<b>1700</b>	<b>2800</b>

### Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 25/7/2019

Aluminium, Al	µg/L	5	<b>160</b>	<b>980</b>	<b>320</b>	<b>8</b>
Arsenic, As	µg/L	1	<1	<1	<1	<1
Barium, Ba	µg/L	1	<b>18</b>	<b>32</b>	<b>19</b>	<b>7</b>
Cadmium, Cd	µg/L	0.1	<b>0.7</b>	<b>0.1</b>	<b>0.3</b>	<b>5.8</b>
Chromium, Cr	µg/L	1	<1	<1	<1	<1
Cobalt, Co	µg/L	1	<b>210</b>	<b>140</b>	<b>160</b>	<b>81</b>
Copper, Cu	µg/L	1	<1	<b>2</b>	<1	<1
Lead, Pb	µg/L	1	<1	<1	<1	<1
Manganese, Mn	µg/L	1	<b>20000</b>	<b>4900</b>	<b>6400</b>	<b>3700</b>
Zinc, Zn	µg/L	5	<b>330</b>	<b>280</b>	<b>190</b>	<b>830</b>

### Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 25/7/2019

Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
---------	------	--------	---------	---------	---------	---------

Parameter	Units	LOR	Sample Number	SE195604.005	SE195604.006	SE195604.007	SE195604.008
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW4	SPC-GW5	SPC-GW5A	SPC-GW6

### VOCs in Water Method: AN433 Tested: 26/7/2019

#### Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	<0.5	<b>8.4</b>	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<b>0.5</b>	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<b>3.3</b>	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<b>11</b>	<1	<1
o-xylene	µg/L	0.5	<0.5	<b>4.6</b>	<0.5	<0.5

#### Polycyclic VOCs

Naphthalene	µg/L	0.5	<0.5	<b>18</b>	<0.5	<0.5
-------------	------	-----	------	-----------	------	------

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	<b>110</b>	<b>96</b>	<b>111</b>	<b>120</b>
d4-1,2-dichloroethane (Surrogate)	%	-	<b>111</b>	<b>121</b>	<b>116</b>	<b>121</b>
d8-toluene (Surrogate)	%	-	<b>97</b>	<b>94</b>	<b>99</b>	<b>95</b>
Bromofluorobenzene (Surrogate)	%	-	<b>97</b>	<b>106</b>	<b>95</b>	<b>98</b>

#### Totals

Total Xylenes	µg/L	1.5	<1.5	<b>15</b>	<1.5	<1.5
Total BTEX	µg/L	3	<3	<b>27</b>	<3	<3

### Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 26/7/2019

TRH C6-C10	µg/L	50	<50	<b>86</b>	<50	<50
TRH C6-C9	µg/L	40	<40	<b>84</b>	<40	<40

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	<b>110</b>	<b>96</b>	<b>111</b>	<b>120</b>
d4-1,2-dichloroethane (Surrogate)	%	-	<b>111</b>	<b>121</b>	<b>116</b>	<b>121</b>
d8-toluene (Surrogate)	%	-	<b>97</b>	<b>94</b>	<b>99</b>	<b>95</b>
Bromofluorobenzene (Surrogate)	%	-	<b>97</b>	<b>106</b>	<b>95</b>	<b>98</b>

#### VPH F Bands

Benzene (F0)	µg/L	0.5	<0.5	<b>8.4</b>	<0.5	<0.5
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<b>59</b>	<50	<50



## ANALYTICAL REPORT

SE195604 R0

Parameter	Sample Number		SE195604.005	SE195604.006	SE195604.007	SE195604.008
	Sample Matrix		Water	Water	Water	Water
	Sample Date		22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name		SPC-GW4	SPC-GW5	SPC-GW5A	SPC-GW6
Units	LOR					

## TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 25/7/2019

TRH C10-C14	µg/L	50	<50	<b>600</b>	<50	<50
TRH C15-C28	µg/L	200	<200	<b>1500</b>	<b>270</b>	<200
TRH C29-C36	µg/L	200	<200	<b>1000</b>	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH C10-C36	µg/L	450	<450	<b>3200</b>	<450	<450
TRH C10-C40	µg/L	650	<650	<b>3200</b>	<650	<650

## TRH F Bands

TRH >C10-C16	µg/L	60	<60	<b>730</b>	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<b>730</b>	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<b>2000</b>	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<b>530</b>	<500	<500

## PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 25/7/2019

Naphthalene	µg/L	0.1	<0.1	<b>11</b>	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<b>3.7</b>	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<b>2.0</b>	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<b>0.1</b>	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<b>0.4</b>	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<b>0.4</b>	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<b>0.2</b>	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<b>0.2</b>	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<b>0.4</b>	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<b>0.1</b>	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<b>0.2</b>	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<b>0.3</b>	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<b>0.2</b>	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<b>19</b>	<1	<1

## Surrogates

d5-nitrobenzene (Surrogate)	%	-	<b>72</b>	<b>56</b>	<b>72</b>	<b>68</b>
2-fluorobiphenyl (Surrogate)	%	-	<b>78</b>	<b>76</b>	<b>78</b>	<b>74</b>
d14-p-terphenyl (Surrogate)	%	-	<b>82</b>	<b>74</b>	<b>78</b>	<b>78</b>

## OC Pesticides in Water Method: AN420 Tested: 25/7/2019

Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	Sample Number	SE195604.005	SE195604.006	SE195604.007	SE195604.008
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW4	SPC-GW5	SPC-GW5A	SPC-GW6

### OC Pesticides in Water Method: AN420 Tested: 25/7/2019 (continued)

p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

### Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	<b>72</b>	<b>63</b>	<b>53</b>	<b>79</b>
---	---	---	-----------	-----------	-----------	-----------

### OP Pesticides in Water Method: AN420 Tested: 25/7/2019

Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2

### Surrogates

2-fluorobiphenyl (Surrogate)	%	-	<b>78</b>	<b>76</b>	<b>78</b>	<b>74</b>
d14-p-terphenyl (Surrogate)	%	-	<b>82</b>	<b>74</b>	<b>78</b>	<b>78</b>

### Total Phenolics in Water Method: AN289 Tested: 29/7/2019

Total Phenols	mg/L	0.01	<0.01	<b>0.03</b>	<0.01	<0.01
---------------	------	------	-------	-------------	-------	-------

### Anions by Ion Chromatography in Water Method: AN245 Tested: 25/7/2019

Fluoride	mg/L	0.1	<0.10	<0.10	<b>0.43</b>	<2.0 †
Chloride	mg/L	1	<b>230</b>	<b>660</b>	<b>4500</b>	<b>13000</b>
Nitrate Nitrogen, NO3-N	mg/L	0.005	<b>0.043</b>	<0.050 †	<0.10 †	<0.50 †
Sulfate, SO4	mg/L	1	<b>56</b>	<b>11</b>	<b>210</b>	<b>910</b>



## ANALYTICAL REPORT

SE195604 R0

Parameter	Sample Number		SE195604.005	SE195604.006	SE195604.007	SE195604.008
	Sample Matrix		Water	Water	Water	Water
	Sample Date		22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name		SPC-GW4	SPC-GW5	SPC-GW5A	SPC-GW6
Units	LOR					

**Alkalinity** Method: AN135 Tested: 26/7/2019

Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	200	2200	970	1200
---------------------------------------	------	---	-----	------	-----	------

**Nitrite in Water** Method: AN277 Tested: 25/7/2019

Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
--	------	-------	--------	--------	--------	--------

**Ammonia Nitrogen by Discrete Analyser (Aquakem)** Method: AN291 Tested: 25/7/2019

Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	1.4	350	21	7.9
--	------	------	-----	-----	----	-----

**Forms of Carbon** Method: AN190 Tested: 25/7/2019

Total Organic Carbon as NPOC	mg/L	0.2	15	190	89	46
------------------------------	------	-----	----	-----	----	----

**Total and Volatile Suspended Solids (TSS / VSS)** Method: AN114 Tested: 29/7/2019

Total Suspended Solids Dried at 103-105°C	mg/L	5	-	-	-	-
---	------	---	---	---	---	---

**Hexavalent Chromium in water by Discrete Analyser** Method: AN283 Tested: 25/7/2019

Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	0.004	<0.004	<0.004
---------------------------------------	------	-------	--------	-------	--------	--------

Parameter	Units	LOR	Sample Number	SE195604.005	SE195604.006	SE195604.007	SE195604.008
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW4	SPC-GW5	SPC-GW5A	SPC-GW6

### Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 25/7/2019

Calcium, Ca	mg/L	0.2	<b>43</b>	<b>81</b>	<b>200</b>	<b>320</b>
Magnesium, Mg	mg/L	0.1	<b>29</b>	<b>43</b>	<b>280</b>	<b>930</b>
Potassium, K	mg/L	0.1	<b>5.3</b>	<b>200</b>	<b>170</b>	<b>420</b>
Sodium, Na	mg/L	0.5	<b>160</b>	<b>520</b>	<b>2700</b>	<b>7800</b>

### Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 25/7/2019

Aluminium, Al	µg/L	5	<b>7</b>	<b>26</b>	<5	<5
Arsenic, As	µg/L	1	<1	<b>3</b>	<b>1</b>	<1
Barium, Ba	µg/L	1	<b>260</b>	<b>200</b>	<b>710</b>	<b>830</b>
Cadmium, Cd	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chromium, Cr	µg/L	1	<1	<b>20</b>	<b>1</b>	<1
Cobalt, Co	µg/L	1	<b>11</b>	<b>27</b>	<b>6</b>	<b>6</b>
Copper, Cu	µg/L	1	<b>1</b>	<1	<1	<1
Lead, Pb	µg/L	1	<1	<b>2</b>	<1	<1
Manganese, Mn	µg/L	1	<b>480</b>	<b>380</b>	<b>450</b>	<b>1000</b>
Zinc, Zn	µg/L	5	<b>10</b>	<b>15</b>	<b>7</b>	<5

### Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 25/7/2019

Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
---------	------	--------	---------	---------	---------	---------

Parameter	Units	LOR	Sample Number	SE195604.009	SE195604.010	SE195604.011	SE195604.012
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW6S	SPC-GW7	SPC-GW8D	SPC-GW8S

### VOCs in Water Method: AN433 Tested: 26/7/2019

#### Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	<0.5	<0.5	<b>22</b>	<b>18</b>
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<b>0.6</b>	<b>0.6</b>

#### Polycyclic VOCs

Naphthalene	µg/L	0.5	<b>0.8</b>	<0.5	<b>4.4</b>	<b>3.2</b>
-------------	------	-----	------------	------	------------	------------

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	<b>116</b>	<b>100</b>	<b>109</b>	<b>113</b>
d4-1,2-dichloroethane (Surrogate)	%	-	<b>122</b>	<b>122</b>	<b>118</b>	<b>124</b>
d8-toluene (Surrogate)	%	-	<b>99</b>	<b>97</b>	<b>93</b>	<b>98</b>
Bromofluorobenzene (Surrogate)	%	-	<b>96</b>	<b>93</b>	<b>109</b>	<b>111</b>

#### Totals

Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<b>24</b>	<b>20</b>

### Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 26/7/2019

TRH C6-C10	µg/L	50	<50	<50	<b>60</b>	<b>57</b>
TRH C6-C9	µg/L	40	<40	<40	<b>65</b>	<b>56</b>

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	<b>116</b>	<b>100</b>	<b>109</b>	<b>113</b>
d4-1,2-dichloroethane (Surrogate)	%	-	<b>122</b>	<b>122</b>	<b>118</b>	<b>124</b>
d8-toluene (Surrogate)	%	-	<b>99</b>	<b>97</b>	<b>93</b>	<b>98</b>
Bromofluorobenzene (Surrogate)	%	-	<b>96</b>	<b>93</b>	<b>109</b>	<b>111</b>

#### VPH F Bands

Benzene (F0)	µg/L	0.5	<0.5	<0.5	<b>22</b>	<b>18</b>
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50



## ANALYTICAL REPORT

SE195604 R0

Parameter	Units	LOR	Sample Number	SE195604.009	SE195604.010	SE195604.011	SE195604.012
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW6S	SPC-GW7	SPC-GW8D	SPC-GW8S

## TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 25/7/2019

TRH C10-C14	µg/L	50	380	57	1000	800
TRH C15-C28	µg/L	200	890	420	2900	2000
TRH C29-C36	µg/L	200	<200	440	1100	390
TRH C37-C40	µg/L	200	<200	<200	240	<200
TRH C10-C36	µg/L	450	1300	910	5000	3100
TRH C10-C40	µg/L	650	1300	910	5200	3100

## TRH F Bands

TRH >C10-C16	µg/L	60	530	74	1500	1100
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	530	74	1500	1100
TRH >C16-C34 (F3)	µg/L	500	840	680	3100	1900
TRH >C34-C40 (F4)	µg/L	500	<500	<500	670	<500

## PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 25/7/2019

Naphthalene	µg/L	0.1	0.3	<0.1	2.1	1.6
2-methylnaphthalene	µg/L	0.1	0.1	<0.1	2.4	2.1
1-methylnaphthalene	µg/L	0.1	0.2	<0.1	2.1	2.0
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	0.2	<0.1	0.3	0.3
Fluorene	µg/L	0.1	0.2	<0.1	0.3	0.3
Phenanthrene	µg/L	0.1	0.3	<0.1	0.3	0.2
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	0.2	0.4	<0.1
Pyrene	µg/L	0.1	<0.1	0.2	0.5	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	0.1	0.3	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	0.2	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	0.1	0.3	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	0.2	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	0.2	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	0.2	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	0.2	<0.1
Total PAH (18)	µg/L	1	1	<1	10	7

## Surrogates

d5-nitrobenzene (Surrogate)	%	-	48	60	58	66
2-fluorobiphenyl (Surrogate)	%	-	66	74	76	80
d14-p-terphenyl (Surrogate)	%	-	70	74	72	78

## OC Pesticides in Water Method: AN420 Tested: 25/7/2019

Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	Sample Number	SE195604.009	SE195604.010	SE195604.011	SE195604.012
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW6S	SPC-GW7	SPC-GW8D	SPC-GW8S

### OC Pesticides in Water Method: AN420 Tested: 25/7/2019 (continued)

p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

#### Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	50	73	61	50
---	---	---	----	----	----	----

### OP Pesticides in Water Method: AN420 Tested: 25/7/2019

Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2

#### Surrogates

2-fluorobiphenyl (Surrogate)	%	-	66	74	76	80
d14-p-terphenyl (Surrogate)	%	-	70	74	72	78

### Total Phenolics in Water Method: AN289 Tested: 29/7/2019

Total Phenols	mg/L	0.01	0.01	<0.01	0.03	0.03
---------------	------	------	------	-------	------	------

### Anions by Ion Chromatography in Water Method: AN245 Tested: 25/7/2019

Fluoride	mg/L	0.1	<0.40 †	1.2	<0.20 †	<0.20 †
Chloride	mg/L	1	4500	4700	930	960
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.10 †	<0.10 †	<0.050 †	<0.050 †
Sulfate, SO4	mg/L	1	7.4	100	14	12



## ANALYTICAL REPORT

SE195604 R0

Parameter	Sample Number		SE195604.009	SE195604.010	SE195604.011	SE195604.012
	Sample Matrix		Water	Water	Water	Water
	Sample Date		22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name		SPC-GW6S	SPC-GW7	SPC-GW8D	SPC-GW8S
Units	LOR					

**Alkalinity** Method: AN135 Tested: 26/7/2019

Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	530	770	2300	2200
---------------------------------------	------	---	-----	-----	------	------

**Nitrite in Water** Method: AN277 Tested: 25/7/2019

Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
--	------	-------	--------	--------	--------	--------

**Ammonia Nitrogen by Discrete Analyser (Aquakem)** Method: AN291 Tested: 25/7/2019

Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	19	7.5	360	370
--	------	------	----	-----	-----	-----

**Forms of Carbon** Method: AN190 Tested: 25/7/2019

Total Organic Carbon as NPOC	mg/L	0.2	260	160	170	150
------------------------------	------	-----	-----	-----	-----	-----

**Total and Volatile Suspended Solids (TSS / VSS)** Method: AN114 Tested: 29/7/2019

Total Suspended Solids Dried at 103-105°C	mg/L	5	-	-	-	-
---	------	---	---	---	---	---

**Hexavalent Chromium in water by Discrete Analyser** Method: AN283 Tested: 25/7/2019

Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	<0.004	<0.004	<0.004
---------------------------------------	------	-------	--------	--------	--------	--------

Parameter	Units	LOR	Sample Number	SE195604.009	SE195604.010	SE195604.011	SE195604.012
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW6S	SPC-GW7	SPC-GW8D	SPC-GW8S

### Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 25/7/2019

Calcium, Ca	mg/L	0.2	170	170	47	50
Magnesium, Mg	mg/L	0.1	210	260	48	46
Potassium, K	mg/L	0.1	75	160	190	180
Sodium, Na	mg/L	0.5	2600	2700	820	790

### Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 25/7/2019

Aluminium, Al	µg/L	5	9	5	15	12
Arsenic, As	µg/L	1	3	3	6	4
Barium, Ba	µg/L	1	3000	1100	530	430
Cadmium, Cd	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chromium, Cr	µg/L	1	4	3	23	26
Cobalt, Co	µg/L	1	10	5	24	23
Copper, Cu	µg/L	1	<1	<1	<1	2
Lead, Pb	µg/L	1	<1	<1	<1	<1
Manganese, Mn	µg/L	1	240	1200	180	69
Zinc, Zn	µg/L	5	8	<5	16	24

### Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 25/7/2019

Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
---------	------	--------	---------	---------	---------	---------

Parameter	Units	LOR	Sample Number	SE195604.013	SE195604.014	SE195604.015	SE195604.016
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW9S	SPC-GW10S	SPC-GW11S	SPC-GWQ

### VOCs in Water Method: AN433 Tested: 26/7/2019

#### Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	<b>1.4</b>	<0.5	<0.5	<b>17</b>
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<b>0.6</b>

#### Polycyclic VOCs

Naphthalene	µg/L	0.5	<b>2.7</b>	<0.5	<0.5	<b>2.9</b>
-------------	------	-----	------------	------	------	------------

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	<b>119</b>	<b>117</b>	<b>119</b>	<b>123</b>
d4-1,2-dichloroethane (Surrogate)	%	-	<b>124</b>	<b>114</b>	<b>124</b>	<b>123</b>
d8-toluene (Surrogate)	%	-	<b>100</b>	<b>94</b>	<b>105</b>	<b>94</b>
Bromofluorobenzene (Surrogate)	%	-	<b>96</b>	<b>94</b>	<b>95</b>	<b>113</b>

#### Totals

Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<b>1.5</b>
Total BTEX	µg/L	3	<3	<3	<3	<b>19</b>

### Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 26/7/2019

TRH C6-C10	µg/L	50	<50	<50	<50	<b>60</b>
TRH C6-C9	µg/L	40	<40	<40	<40	<b>59</b>

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	<b>119</b>	<b>117</b>	<b>119</b>	<b>123</b>
d4-1,2-dichloroethane (Surrogate)	%	-	<b>124</b>	<b>114</b>	<b>124</b>	<b>123</b>
d8-toluene (Surrogate)	%	-	<b>100</b>	<b>94</b>	<b>105</b>	<b>94</b>
Bromofluorobenzene (Surrogate)	%	-	<b>96</b>	<b>94</b>	<b>95</b>	<b>113</b>

#### VPH F Bands

Benzene (F0)	µg/L	0.5	<b>1.4</b>	<0.5	<0.5	<b>17</b>
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50



## ANALYTICAL REPORT

SE195604 R0

Parameter	Units	LOR	Sample Number	SE195604.013	SE195604.014	SE195604.015	SE195604.016
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW9S	SPC-GW10S	SPC-GW11S	SPC-GWQ

## TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 25/7/2019

TRH C10-C14	µg/L	50	93	-	<50	770
TRH C15-C28	µg/L	200	2000	-	470	1800
TRH C29-C36	µg/L	200	3300	-	570	360
TRH C37-C40	µg/L	200	1300	-	<200	<200
TRH C10-C36	µg/L	450	5500	-	1000	3000
TRH C10-C40	µg/L	650	6800	-	1000	3000

## TRH F Bands

TRH >C10-C16	µg/L	60	170	-	<60	1100
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	170	-	<60	1100
TRH >C16-C34 (F3)	µg/L	500	3900	-	820	1700
TRH >C34-C40 (F4)	µg/L	500	2700	-	<500	<500

## PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 25/7/2019

Naphthalene	µg/L	0.1	2.5	-	<0.1	1.5
2-methylnaphthalene	µg/L	0.1	0.7	-	<0.1	1.7
1-methylnaphthalene	µg/L	0.1	0.5	-	<0.1	1.7
Acenaphthylene	µg/L	0.1	1.2	-	0.2	<0.1
Acenaphthene	µg/L	0.1	0.4	-	0.8	0.2
Fluorene	µg/L	0.1	0.8	-	<0.1	0.2
Phenanthrene	µg/L	0.1	5.7	-	0.3	0.1
Anthracene	µg/L	0.1	1.9	-	0.1	<0.1
Fluoranthene	µg/L	0.1	22	-	0.9	<0.1
Pyrene	µg/L	0.1	21	-	0.9	<0.1
Benzo(a)anthracene	µg/L	0.1	14	-	0.6	<0.1
Chrysene	µg/L	0.1	11	-	0.5	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	20	-	0.9	<0.1
Benzo(k)fluoranthene	µg/L	0.1	7.4	-	0.4	<0.1
Benzo(a)pyrene	µg/L	0.1	18	-	0.9	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	14	-	0.7	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	1.2	-	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	9.4	-	0.5	<0.1
Total PAH (18)	µg/L	1	150	-	8	5

## Surrogates

d5-nitrobenzene (Surrogate)	%	-	48	-	66	56
2-fluorobiphenyl (Surrogate)	%	-	64	-	72	66
d14-p-terphenyl (Surrogate)	%	-	64	-	76	62

## OC Pesticides in Water Method: AN420 Tested: 25/7/2019

Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	-	<0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1	-	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	-	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	-	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	-	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	-	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	-	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	-	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	-	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	-	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	-	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	-	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	-	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	-	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	-	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	-	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	-	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	-	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	-	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	-	<0.1	<0.1

Parameter	Units	LOR	Sample Number	SE195604.013	SE195604.014	SE195604.015	SE195604.016
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW9S	SPC-GW10S	SPC-GW11S	SPC-GWQ

### OC Pesticides in Water Method: AN420 Tested: 25/7/2019 (continued)

p,p'-DDT	µg/L	0.1	<0.1	-	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	-	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	-	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	-	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	-	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	-	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	-	<0.1	<0.1

### Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	<b>66</b>	-	<b>60</b>	<b>58</b>
---	---	---	-----------	---	-----------	-----------

### OP Pesticides in Water Method: AN420 Tested: 25/7/2019

Dichlorvos	µg/L	0.5	<0.5	-	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	-	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	-	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	-	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	-	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	-	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	-	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	-	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	-	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	-	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	-	<0.2	<0.2

### Surrogates

2-fluorobiphenyl (Surrogate)	%	-	<b>64</b>	-	<b>72</b>	<b>66</b>
d14-p-terphenyl (Surrogate)	%	-	<b>64</b>	-	<b>76</b>	<b>62</b>

### Total Phenolics in Water Method: AN289 Tested: 29/7/2019

Total Phenols	mg/L	0.01	<0.01	-	<0.01	<b>0.02</b>
---------------	------	------	-------	---	-------	-------------

### Anions by Ion Chromatography in Water Method: AN245 Tested: 25/7/2019

Fluoride	mg/L	0.1	<0.10	<0.10	<b>0.19</b>	<0.20 †
Chloride	mg/L	1	<b>340</b>	<b>450</b>	<b>540</b>	<b>920</b>
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.025 †	<0.025 †	<0.025 †	<0.050 †
Sulfate, SO4	mg/L	1	<b>100</b>	<b>55</b>	<b>79</b>	<b>13</b>

Parameter	Units	LOR	Sample Number	SE195604.013	SE195604.014	SE195604.015	SE195604.016
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW9S	SPC-GW10S	SPC-GW11S	SPC-GWQ

### Alkalinity Method: AN135 Tested: 26/7/2019

Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	930	-	1100	2200
---------------------------------------	------	---	-----	---	------	------

### Nitrite in Water Method: AN277 Tested: 25/7/2019

Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	<0.005	0.010	<0.005	<0.005
--	------	-------	--------	-------	--------	--------

### Ammonia Nitrogen by Discrete Analyser (Aquakem) Method: AN291 Tested: 25/7/2019

Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	53	8.1	5.1	370
--	------	------	----	-----	-----	-----

### Forms of Carbon Method: AN190 Tested: 25/7/2019

Total Organic Carbon as NPOC	mg/L	0.2	210	72	150	150
------------------------------	------	-----	-----	----	-----	-----

### Total and Volatile Suspended Solids (TSS / VSS) Method: AN114 Tested: 29/7/2019

Total Suspended Solids Dried at 103-105°C	mg/L	5	-	-	-	-
---	------	---	---	---	---	---

### Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 25/7/2019

Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	<0.004	<0.004	<0.004
---------------------------------------	------	-------	--------	--------	--------	--------

Parameter	Units	LOR	Sample Number	SE195604.013	SE195604.014	SE195604.015	SE195604.016
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-GW9S	SPC-GW10S	SPC-GW11S	SPC-GWQ

### Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 25/7/2019

Calcium, Ca	mg/L	0.2	120	37	200	50
Magnesium, Mg	mg/L	0.1	52	25	99	47
Potassium, K	mg/L	0.1	40	34	25	190
Sodium, Na	mg/L	0.5	270	360	370	750

### Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 25/7/2019

Aluminium, Al	µg/L	5	8	27	<5	12
Arsenic, As	µg/L	1	1	6	2	4
Barium, Ba	µg/L	1	570	120	950	420
Cadmium, Cd	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chromium, Cr	µg/L	1	2	<1	<1	26
Cobalt, Co	µg/L	1	6	2	4	23
Copper, Cu	µg/L	1	<1	1	<1	2
Lead, Pb	µg/L	1	<1	<1	<1	<1
Manganese, Mn	µg/L	1	130	2	500	68
Zinc, Zn	µg/L	5	9	<5	<5	26

### Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 25/7/2019

Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
---------	------	--------	---------	---------	---------	---------

Parameter	Units	LOR	Sample Number	SE195604.017	SE195604.018	SE195604.019	SE195604.020
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-B	SPC-SW-UP	SPC-SW-MID	SPC-SW-DN

### VOCs in Water Method: AN433 Tested: 26/7/2019

#### Monocyclic Aromatic Hydrocarbons

Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

#### Polycyclic VOCs

Naphthalene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
-------------	------	-----	------	------	------	------

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	106	108	114	114
d4-1,2-dichloroethane (Surrogate)	%	-	112	118	118	121
d8-toluene (Surrogate)	%	-	97	97	92	94
Bromofluorobenzene (Surrogate)	%	-	98	95	102	95

#### Totals

Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3

### Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 26/7/2019

TRH C6-C10	µg/L	50	<50	<50	<50	<50
TRH C6-C9	µg/L	40	<40	<40	<40	<40

#### Surrogates

Dibromofluoromethane (Surrogate)	%	-	106	108	114	114
d4-1,2-dichloroethane (Surrogate)	%	-	112	118	118	121
d8-toluene (Surrogate)	%	-	97	97	92	94
Bromofluorobenzene (Surrogate)	%	-	98	95	102	95

#### VPH F Bands

Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50



## ANALYTICAL REPORT

SE195604 R0

Parameter	Units	LOR	Sample Number	SE195604.017	SE195604.018	SE195604.019	SE195604.020
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-B	SPC-SW-UP	SPC-SW-MID	SPC-SW-DN

## TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 25/7/2019

TRH C10-C14	µg/L	50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200
TRH C10-C36	µg/L	450	<450	<450	<450	<450
TRH C10-C40	µg/L	650	<650	<650	<650	<650

## TRH F Bands

TRH >C10-C16	µg/L	60	<60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500

## PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 25/7/2019

Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1

## Surrogates

d5-nitrobenzene (Surrogate)	%	-	62	70	60	58
2-fluorobiphenyl (Surrogate)	%	-	72	76	66	64
d14-p-terphenyl (Surrogate)	%	-	80	78	72	74

## OC Pesticides in Water Method: AN420 Tested: 25/7/2019

Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	Sample Number	SE195604.017	SE195604.018	SE195604.019	SE195604.020
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-B	SPC-SW-UP	SPC-SW-MID	SPC-SW-DN

### OC Pesticides in Water Method: AN420 Tested: 25/7/2019 (continued)

p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

#### Surrogates

Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	<b>59</b>	<b>80</b>	<b>66</b>	<b>65</b>
---	---	---	-----------	-----------	-----------	-----------

### OP Pesticides in Water Method: AN420 Tested: 25/7/2019

Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2

#### Surrogates

2-fluorobiphenyl (Surrogate)	%	-	<b>72</b>	<b>76</b>	<b>66</b>	<b>64</b>
d14-p-terphenyl (Surrogate)	%	-	<b>80</b>	<b>78</b>	<b>72</b>	<b>74</b>

### Total Phenolics in Water Method: AN289 Tested: 29/7/2019

Total Phenols	mg/L	0.01	<b>0.02</b>	<b>0.02</b>	<b>0.02</b>	<b>0.04</b>
---------------	------	------	-------------	-------------	-------------	-------------

### Anions by Ion Chromatography in Water Method: AN245 Tested: 25/7/2019

Fluoride	mg/L	0.1	<0.10	<b>1.3</b>	<b>1.2</b>	<b>1.0</b>
Chloride	mg/L	1	<1.0	<b>7700</b>	<b>8400</b>	<b>7400</b>
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.005	<b>0.22</b>	<b>0.13</b>	<b>0.23</b>
Sulfate, SO4	mg/L	1	<1.0	<b>1000</b>	<b>1200</b>	<b>980</b>

Parameter	Units	LOR	Sample Number	SE195604.017	SE195604.018	SE195604.019	SE195604.020
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-B	SPC-SW-UP	SPC-SW-MID	SPC-SW-DN

### Alkalinity Method: AN135 Tested: 26/7/2019

Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	<5	120	120	120
---------------------------------------	------	---	----	-----	-----	-----

### Nitrite in Water Method: AN277 Tested: 25/7/2019

Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	<0.005	0.058	0.043	0.061
--	------	-------	--------	-------	-------	-------

### Ammonia Nitrogen by Discrete Analyser (Aquakem) Method: AN291 Tested: 25/7/2019

Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	<0.01	0.63	0.48	0.70
--	------	------	-------	------	------	------

### Forms of Carbon Method: AN190 Tested: 25/7/2019

Total Organic Carbon as NPOC	mg/L	0.2	0.4	5.4	5.3	6.0
------------------------------	------	-----	-----	-----	-----	-----

### Total and Volatile Suspended Solids (TSS / VSS) Method: AN114 Tested: 29/7/2019

Total Suspended Solids Dried at 103-105°C	mg/L	5	-	<5	<5	9
---	------	---	---	----	----	---

### Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 25/7/2019

Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	<0.004	<0.004	<0.004
---------------------------------------	------	-------	--------	--------	--------	--------

Parameter	Units	LOR	Sample Number	SE195604.017	SE195604.018	SE195604.019	SE195604.020
			Sample Matrix	Water	Water	Water	Water
			Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
			Sample Name	SPC-B	SPC-SW-UP	SPC-SW-MID	SPC-SW-DN

### Metals in Water (Dissolved) by ICPOES Method: AN320 Tested: 25/7/2019

Calcium, Ca	mg/L	0.2	<0.2	<b>180</b>	<b>190</b>	<b>170</b>
Magnesium, Mg	mg/L	0.1	<0.1	<b>480</b>	<b>540</b>	<b>480</b>
Potassium, K	mg/L	0.1	<0.1	<b>230</b>	<b>260</b>	<b>240</b>
Sodium, Na	mg/L	0.5	<0.5	<b>4200</b>	<b>4600</b>	<b>4100</b>

### Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 25/7/2019

Aluminium, Al	µg/L	5	<5	<b>29</b>	<b>27</b>	<b>23</b>
Arsenic, As	µg/L	1	<1	<1	<1	<1
Barium, Ba	µg/L	1	<1	<b>59</b>	<b>49</b>	<b>53</b>
Cadmium, Cd	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chromium, Cr	µg/L	1	<1	<1	<1	<1
Cobalt, Co	µg/L	1	<1	<1	<1	<1
Copper, Cu	µg/L	1	<1	<b>2</b>	<b>1</b>	<b>2</b>
Lead, Pb	µg/L	1	<1	<1	<1	<1
Manganese, Mn	µg/L	1	<1	<b>43</b>	<b>49</b>	<b>58</b>
Zinc, Zn	µg/L	5	<5	<b>34</b>	<b>34</b>	<b>36</b>

### Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 25/7/2019

Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
---------	------	--------	---------	---------	---------	---------

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

### Alkalinity Method: ME-(AU)-[ENV]AN135

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Total Alkalinity as CaCO <sub>3</sub>	LB179485	mg/L	5	<5	1 - 3%	103%

### Ammonia Nitrogen by Discrete Analyser (Aquakem) Method: ME-(AU)-[ENV]AN291

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Ammonia Nitrogen, NH <sub>3</sub> as N	LB179309	mg/L	0.01	<0.01	1%	99%	99%

### Anions by Ion Chromatography in Water Method: ME-(AU)-[ENV]AN245

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Fluoride	LB179327	mg/L	0.1	<0.10	3%	97%
	LB179328	mg/L	0.1	<0.10		94%
Chloride	LB179327	mg/L	1	<0.05	1 - 2%	92%
	LB179328	mg/L	1	<0.05		94%
Nitrate Nitrogen, NO <sub>3</sub> -N	LB179327	mg/L	0.005	<0.005	0%	92%
	LB179328	mg/L	0.005	<0.005	0%	94%
Sulfate, SO <sub>4</sub>	LB179327	mg/L	1	<1.0	1%	91%
	LB179328	mg/L	1	<1.0		93%

### Forms of Carbon Method: ME-(AU)-[ENV]AN190

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Organic Carbon as NPOC	LB179308	mg/L	0.2	0.4	1 - 3%	94%	99%

### Hexavalent Chromium in water by Discrete Analyser Method: ME-(AU)-[ENV]AN283

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Hexavalent Chromium, Cr <sup>6+</sup>	LB179306	mg/L	0.004	<0.004	0%	107%	98%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

### Mercury (dissolved) in Water Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Mercury	LB179313	mg/L	0.0001	<0.0001	104%

### Metals in Water (Dissolved) by ICPOES Method: ME-(AU)-[ENV]AN320

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Calcium, Ca	LB179294	mg/L	0.2	<0.2	0%	93%
Magnesium, Mg	LB179294	mg/L	0.1	<0.1	1%	91%
Potassium, K	LB179294	mg/L	0.1	<0.1	0 - 1%	88%
Sodium, Na	LB179294	mg/L	0.5	<0.5	0 - 2%	86%

### Nitrite in Water Method: ME-(AU)-[ENV]AN277

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Nitrite Nitrogen, NO <sub>2</sub> as N	LB179309	mg/L	0.005	<0.005	0 - 1%	99%	92%

### OC Pesticides in Water Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Hexachlorobenzene (HCB)	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Alpha BHC	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Lindane (gamma BHC)	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Heptachlor	LB179318	µg/L	0.1	<0.1	0%	96%	92%
Aldrin	LB179318	µg/L	0.1	<0.1	0%	77%	75%
Beta BHC	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Delta BHC	LB179318	µg/L	0.1	<0.1	0%	103%	101%
Heptachlor epoxide	LB179318	µg/L	0.1	<0.1	0%	NA	NA
o,p'-DDE	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Alpha Endosulfan	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Gamma Chlordane	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Alpha Chlordane	LB179318	µg/L	0.1	<0.1	0%	NA	NA
trans-Nonachlor	LB179318	µg/L	0.1	<0.1	0%	NA	NA
p,p'-DDE	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Dieldrin	LB179318	µg/L	0.1	<0.1	0%	101%	93%
Endrin	LB179318	µg/L	0.1	<0.1	0%	99%	91%
o,p'-DDD	LB179318	µg/L	0.1	<0.1	0%	NA	NA
o,p'-DDT	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Beta Endosulfan	LB179318	µg/L	0.1	<0.1	0%	NA	NA
p,p'-DDD	LB179318	µg/L	0.1	<0.1	0%	NA	NA
p,p'-DDT	LB179318	µg/L	0.1	<0.1	0%	100%	88%
Endosulfan sulphate	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Endrin aldehyde	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Methoxychlor	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Endrin ketone	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Isodrin	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Mirex	LB179318	µg/L	0.1	<0.1	0%	NA	NA

#### Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB179318	%	-	61%	13 - 14%	65%	83%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

### OP Pesticides in Water Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dichlorvos	LB179318	µg/L	0.5	<0.5	0%	99%	119%
Dimethoate	LB179318	µg/L	0.5	<0.5	0%	NA	NA
Diazinon (Dimpylate)	LB179318	µg/L	0.5	<0.5	0%	97%	104%
Fenitrothion	LB179318	µg/L	0.2	<0.2	0%	NA	NA
Malathion	LB179318	µg/L	0.2	<0.2	0%	NA	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB179318	µg/L	0.2	<0.2	0%	93%	82%
Parathion-ethyl (Parathion)	LB179318	µg/L	0.2	<0.2	0%	NA	NA
Bromophos Ethyl	LB179318	µg/L	0.2	<0.2	0%	NA	NA
Methidathion	LB179318	µg/L	0.5	<0.5	0%	NA	NA
Ethion	LB179318	µg/L	0.2	<0.2	0%	92%	76%
Azinphos-methyl	LB179318	µg/L	0.2	<0.2	0%	NA	NA

### Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
2-fluorobiphenyl (Surrogate)	LB179318	%	-	72%	14 - 22%	62%	88%
d14-p-terphenyl (Surrogate)	LB179318	%	-	86%	10 - 20%	66%	70%

### PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB179318	µg/L	0.1	<0.1	0 - 5%	76%	88%
2-methylnaphthalene	LB179318	µg/L	0.1	<0.1	0 - 16%	NA	NA
1-methylnaphthalene	LB179318	µg/L	0.1	<0.1	0 - 15%	NA	NA
Acenaphthylene	LB179318	µg/L	0.1	<0.1	0%	75%	113%
Acenaphthene	LB179318	µg/L	0.1	<0.1	0 - 19%	79%	97%
Fluorene	LB179318	µg/L	0.1	<0.1	0 - 17%	NA	NA
Phenanthrene	LB179318	µg/L	0.1	<0.1	0 - 19%	87%	103%
Anthracene	LB179318	µg/L	0.1	<0.1	0%	81%	80%
Fluoranthene	LB179318	µg/L	0.1	<0.1	0%	77%	90%
Pyrene	LB179318	µg/L	0.1	<0.1	0%	77%	90%
Benzo(a)anthracene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Chrysene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Benzo(b&j)fluoranthene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Benzo(k)fluoranthene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Benzo(a)pyrene	LB179318	µg/L	0.1	<0.1	0%	86%	102%
Indeno(1,2,3-cd)pyrene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Dibenzo(ah)anthracene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Benzo(ghi)perylene	LB179318	µg/L	0.1	<0.1	0%	NA	NA
Total PAH (18)	LB179318	µg/L	1	<1			

### Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB179318	%	-	64%	16 - 19%	56%	84%
2-fluorobiphenyl (Surrogate)	LB179318	%	-	72%	14 - 22%	62%	88%
d14-p-terphenyl (Surrogate)	LB179318	%	-	86%	10 - 20%	66%	70%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

### Total and Volatile Suspended Solids (TSS / VSS) Method: ME-(AU)-[ENV]AN114

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Total Suspended Solids Dried at 103-105°C	LB179526	mg/L	5	<5	31%	97%

### Total Phenolics in Water Method: ME-(AU)-[ENV]AN289

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Phenols	LB179533	mg/L	0.01	<0.01	0%	98%	78%
	LB179678	mg/L	0.01	<0.01	0%	91%	

### Trace Metals (Dissolved) in Water by ICPMS Method: ME-(AU)-[ENV]AN318

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Aluminium, Al	LB179297	µg/L	5	<5	7 - 13%	104%	72%
Arsenic, As	LB179297	µg/L	1	<1	0 - 12%	100%	119%
Barium, Ba	LB179297	µg/L	1	<1	1 - 9%	97%	104%
Cadmium, Cd	LB179297	µg/L	0.1	<0.1	0%	96%	89%
Chromium, Cr	LB179297	µg/L	1	<1	0 - 3%	114%	105%
Cobalt, Co	LB179297	µg/L	1	<1	0 - 2%	109%	55%
Copper, Cu	LB179297	µg/L	1	<1	0 - 22%	105%	81%
Lead, Pb	LB179297	µg/L	1	<1	0%	95%	90%
Manganese, Mn	LB179297	µg/L	1	<1	1 - 10%	99%	-2681%
Zinc, Zn	LB179297	µg/L	5	<5	0 - 21%	103%	234%

### TRH (Total Recoverable Hydrocarbons) in Water Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB179318	µg/L	50	<50	0 - 23%	80%	73%
TRH C15-C28	LB179318	µg/L	200	<200	0 - 25%	98%	84%
TRH C29-C36	LB179318	µg/L	200	<200	0 - 5%	116%	103%
TRH C37-C40	LB179318	µg/L	200	<200	0%	NA	NA
TRH C10-C36	LB179318	µg/L	450	<450	0 - 22%	NA	NA
TRH C10-C40	LB179318	µg/L	650	<650	0 - 22%	NA	NA

### TRH F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH >C10-C16	LB179318	µg/L	60	<60	0 - 24%	88%	79%
TRH >C10-C16 - Naphthalene (F2)	LB179318	µg/L	60	<60	0 - 24%	NA	NA
TRH >C16-C34 (F3)	LB179318	µg/L	500	<500	0 - 23%	109%	89%
TRH >C34-C40 (F4)	LB179318	µg/L	500	<500	0%	121%	122%

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

### VOCs in Water Method: ME-(AU)-[ENV]AN433

#### Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB179415	µg/L	0.5	<0.5	0%	122%	112%
Toluene	LB179415	µg/L	0.5	<0.5	0%	127%	117%
Ethylbenzene	LB179415	µg/L	0.5	<0.5	0%	129%	118%
m/p-xylene	LB179415	µg/L	1	<1	0%	139%	128%
o-xylene	LB179415	µg/L	0.5	<0.5	0 - 1%	130%	120%

#### Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB179415	µg/L	0.5	<0.5	0 - 5%	NA	NA

#### Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB179415	%	-	105%	0 - 6%	100%	108%
d4-1,2-dichloroethane (Surrogate)	LB179415	%	-	111%	4 - 9%	110%	107%
d8-toluene (Surrogate)	LB179415	%	-	101%	1 - 5%	101%	99%
Bromofluorobenzene (Surrogate)	LB179415	%	-	93%	2 - 3%	106%	110%

#### Totals

Parameter	QC Reference	Units	LOR	MB
Total Xylenes	LB179415	µg/L	1.5	<1.5
Total BTEX	LB179415	µg/L	3	<3

### Volatile Petroleum Hydrocarbons in Water Method: ME-(AU)-[ENV]AN433

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C10	LB179415	µg/L	50	<50	0 - 3%	121%	86%
TRH C6-C9	LB179415	µg/L	40	<40	0 - 2%	133%	107%

#### Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Dibromofluoromethane (Surrogate)	LB179415	%	-	105%	0 - 6%	100%	108%
d4-1,2-dichloroethane (Surrogate)	LB179415	%	-	111%	4 - 9%	110%	107%
d8-toluene (Surrogate)	LB179415	%	-	101%	1 - 5%	101%	99%
Bromofluorobenzene (Surrogate)	LB179415	%	-	93%	2 - 3%	106%	110%

#### VPF F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene (F0)	LB179415	µg/L	0.5	<0.5	0%	NA	NA
TRH C6-C10 minus BTEX (F1)	LB179415	µg/L	50	<50	0%	124%	77%

## METHOD

## METHODOLOGY SUMMARY

AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN114	Total Suspended and Volatile Suspended Solids: The sample is homogenised by shaking and a known volume is filtered through a pre-weighed GF/C filter paper and washed well with deionised water. The filter paper is dried and reweighed. The TSS is the residue retained by the filter per unit volume of sample. Reference APHA 2540 D. Internal Reference AN114
AN135	Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135
AN190	TOC and DOC in Water: A homogenised micro portion of sample is injected into a heated reaction chamber packed with an oxidative catalyst that converts organic carbon to carbon dioxide. The CO <sub>2</sub> is measured using a non-dispersive infrared detector. The process is fully automated in a commercially available analyser. If required a sugar value can be calculated from the TOC result. Reference APHA 5310 B.
AN190	Chemical oxygen demand can be calculated/estimated based on the O <sub>2</sub> /C relation as 2.67*NPOC (TOC). This is an estimate only and the factor will vary with sample matrix so results should be interpreted with caution.
AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO <sub>2</sub> , NO <sub>3</sub> and SO <sub>4</sub> are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN277/WC250.312	Nitrite ions, when reacted with a reagent containing sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride produce a highly coloured azo dye that is measured photometrically at 540nm.
AN283	Hexavalent Chromium via Aquakem DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr <sup>6+</sup> . If total chromium is also measured the trivalent form of chromium Cr <sup>3+</sup> can be calculated from the difference (Total Cr - Cr <sup>6+</sup> ). Reference APHA3500CrB.
AN289	Analysis of Total Phenols in Soil Sediment and Water: Steam distillable phenols react with 4-aminoantipyrine at pH 7.9±0.1 in the presence of potassium ferricyanide to form a coloured antipyrine dye analysed by Discrete Analyser. Reference APHA 5530 B/D.
AN291	Ammonia in solution reacts with hypochlorite ions from Sodium Dichloroisocyanate, and salicylate in the presence of Sodium Nitroprusside to form indophenol blue and measured at 670 nm by Discrete Analyser.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.

### METHOD

### METHODOLOGY SUMMARY

AN320	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components .
AN320	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process ( Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
Calculation	Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported . APHA4500CO2 D.

## FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
**	Indicative data, theoretical holding time exceeded.	QFL	QC result is below the lower tolerance
		-	The sample was not analysed for this analyte
		NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.  
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: [www.sgs.com.au.pv.sgsvr/en-gb/environment](http://www.sgs.com.au.pv.sgsvr/en-gb/environment).

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This report must not be reproduced, except in full.



## STATEMENT OF QA/QC PERFORMANCE

SE195604 R0

### CLIENT DETAILS

Contact Kaine Pritchard  
Client FUTURE-PLUS ENVIRONMENTAL  
Address PO BOX 1250  
BUDDINA QLD 4575

Telephone 07 5450 2688 / 0404 493 811  
Facsimile 07 5450 2686  
Email kainep@future-plus.com.au

Project 4599-190722  
Order Number 1250, Buddina Q 4575  
Samples 20

### LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

SGS Reference SE195604 R0  
Date Received 23 Jul 2019  
Date Reported 31 Jul 2019

### COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.  
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.  
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Matrix Spike	Trace Metals (Dissolved) in Water by ICPMS	3 items
--------------	--	---------

### SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice
Samples received in correct containers	Yes	Sample counts by matrix	20 Water
Date documentation received	23/7/2019	Type of documentation received	COC
Number of eskies/boxes received		Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.4°C
Sufficient sample for analysis	Yes	Turnaround time requested	Standard



## HOLDING TIME SUMMARY

SE195604 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Alkalinity

Method: ME-(AU)-ENVJAN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW1S	SE195604.002	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW2	SE195604.003	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW3	SE195604.004	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW4	SE195604.005	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW5	SE195604.006	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW5A	SE195604.007	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW6	SE195604.008	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW6S	SE195604.009	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW7	SE195604.010	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW8D	SE195604.011	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW8S	SE195604.012	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW9S	SE195604.013	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GW11S	SE195604.015	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-GWQ	SE195604.016	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-B	SE195604.017	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-SW-UP	SE195604.018	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-SW-MID	SE195604.019	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-SW-DN	SE195604.020	LB179485	22 Jul 2019	23 Jul 2019	05 Aug 2019	26 Jul 2019	05 Aug 2019	29 Jul 2019

### Ammonia Nitrogen by Discrete Analyser (Aquakem)

Method: ME-(AU)-ENVJAN291

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW1S	SE195604.002	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW2	SE195604.003	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW3	SE195604.004	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW4	SE195604.005	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW5	SE195604.006	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW5A	SE195604.007	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW6	SE195604.008	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW6S	SE195604.009	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW7	SE195604.010	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW8D	SE195604.011	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW8S	SE195604.012	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW9S	SE195604.013	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW10S	SE195604.014	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW11S	SE195604.015	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GWQ	SE195604.016	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-B	SE195604.017	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-SW-UP	SE195604.018	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-SW-MID	SE195604.019	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-SW-DN	SE195604.020	LB179309	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019

### Anions by Ion Chromatography in Water

Method: ME-(AU)-ENVJAN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW1S	SE195604.002	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW2	SE195604.003	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW3	SE195604.004	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW4	SE195604.005	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW5	SE195604.006	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW5A	SE195604.007	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW6	SE195604.008	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW6S	SE195604.009	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW7	SE195604.010	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW8D	SE195604.011	LB179327	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW8S	SE195604.012	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW9S	SE195604.013	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW10S	SE195604.014	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW11S	SE195604.015	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GWQ	SE195604.016	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019



## HOLDING TIME SUMMARY

SE195604 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Anions by Ion Chromatography in Water (continued)

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-B	SE195604.017	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-SW-UP	SE195604.018	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-SW-MID	SE195604.019	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-SW-DN	SE195604.020	LB179328	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019

### Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW1S	SE195604.002	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW2	SE195604.003	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW3	SE195604.004	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW4	SE195604.005	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW5	SE195604.006	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW5A	SE195604.007	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW6	SE195604.008	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW6S	SE195604.009	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW7	SE195604.010	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW8D	SE195604.011	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW8S	SE195604.012	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW9S	SE195604.013	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW10S	SE195604.014	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GW11S	SE195604.015	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-GWQ	SE195604.016	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-B	SE195604.017	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-SW-UP	SE195604.018	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-SW-MID	SE195604.019	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019
SPC-SW-DN	SE195604.020	LB179308	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	29 Jul 2019	26 Jul 2019

### Hexavalent Chromium in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN283

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW1S	SE195604.002	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW2	SE195604.003	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW3	SE195604.004	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW4	SE195604.005	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW5	SE195604.006	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW5A	SE195604.007	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW6	SE195604.008	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW6S	SE195604.009	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW7	SE195604.010	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW8D	SE195604.011	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW8S	SE195604.012	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW9S	SE195604.013	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW10S	SE195604.014	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GW11S	SE195604.015	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-GWQ	SE195604.016	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-B	SE195604.017	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-SW-UP	SE195604.018	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-SW-MID	SE195604.019	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019
SPC-SW-DN	SE195604.020	LB179306	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	29 Jul 2019

### Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW1S	SE195604.002	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW2	SE195604.003	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW3	SE195604.004	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW4	SE195604.005	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW5	SE195604.006	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW5A	SE195604.007	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW6	SE195604.008	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019



## HOLDING TIME SUMMARY

SE195604 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Mercury (dissolved) in Water (continued)

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW6S	SE195604.009	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW7	SE195604.010	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW8D	SE195604.011	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW8S	SE195604.012	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW9S	SE195604.013	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW10S	SE195604.014	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GW11S	SE195604.015	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-GWQ	SE195604.016	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-B	SE195604.017	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-SW-UP	SE195604.018	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-SW-MID	SE195604.019	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019
SPC-SW-DN	SE195604.020	LB179313	22 Jul 2019	23 Jul 2019	19 Aug 2019	25 Jul 2019	19 Aug 2019	26 Jul 2019

### Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW1S	SE195604.002	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW2	SE195604.003	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW3	SE195604.004	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW4	SE195604.005	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW5	SE195604.006	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW5A	SE195604.007	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW6	SE195604.008	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW6S	SE195604.009	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW7	SE195604.010	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW8D	SE195604.011	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW8S	SE195604.012	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW9S	SE195604.013	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW10S	SE195604.014	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW11S	SE195604.015	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GWQ	SE195604.016	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-B	SE195604.017	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-SW-UP	SE195604.018	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-SW-MID	SE195604.019	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-SW-DN	SE195604.020	LB179294	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019

### Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW1S	SE195604.002	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW2	SE195604.003	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW3	SE195604.004	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW4	SE195604.005	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW5	SE195604.006	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW5A	SE195604.007	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW6	SE195604.008	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW6S	SE195604.009	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW7	SE195604.010	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW8D	SE195604.011	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW8S	SE195604.012	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW9S	SE195604.013	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW10S	SE195604.014	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GW11S	SE195604.015	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-GWQ	SE195604.016	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-B	SE195604.017	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-SW-UP	SE195604.018	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-SW-MID	SE195604.019	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019
SPC-SW-DN	SE195604.020	LB179309	22 Jul 2019	23 Jul 2019	26 Jul 2019	25 Jul 2019	26 Jul 2019	26 Jul 2019

### OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref
-------------	------------	--------



## HOLDING TIME SUMMARY

SE195604 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### OC Pesticides in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW1S	SE195604.002	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW2	SE195604.003	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW3	SE195604.004	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW4	SE195604.005	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW5	SE195604.006	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW5A	SE195604.007	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW6	SE195604.008	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW6S	SE195604.009	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW7	SE195604.010	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW8D	SE195604.011	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW8S	SE195604.012	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW9S	SE195604.013	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW11S	SE195604.015	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GWQ	SE195604.016	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-B	SE195604.017	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-SW-UP	SE195604.018	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-SW-MID	SE195604.019	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-SW-DN	SE195604.020	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019

### OP Pesticides in Water

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW1S	SE195604.002	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW2	SE195604.003	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW3	SE195604.004	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW4	SE195604.005	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW5	SE195604.006	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW5A	SE195604.007	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW6	SE195604.008	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW6S	SE195604.009	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW7	SE195604.010	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW8D	SE195604.011	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW8S	SE195604.012	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW9S	SE195604.013	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW11S	SE195604.015	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GWQ	SE195604.016	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-B	SE195604.017	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-SW-UP	SE195604.018	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-SW-MID	SE195604.019	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-SW-DN	SE195604.020	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW1S	SE195604.002	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW2	SE195604.003	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW3	SE195604.004	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW4	SE195604.005	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW5	SE195604.006	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW5A	SE195604.007	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW6	SE195604.008	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW6S	SE195604.009	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW7	SE195604.010	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW8D	SE195604.011	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW8S	SE195604.012	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW9S	SE195604.013	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GW11S	SE195604.015	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-GWQ	SE195604.016	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-B	SE195604.017	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-SW-UP	SE195604.018	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019



## HOLDING TIME SUMMARY

SE195604 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-SW-MID	SE195604.019	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019
SPC-SW-DN	SE195604.020	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	29 Jul 2019

### Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-ENVJAN114

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-SW-UP	SE195604.018	LB179526	22 Jul 2019	23 Jul 2019	29 Jul 2019	29 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-SW-MID	SE195604.019	LB179526	22 Jul 2019	23 Jul 2019	29 Jul 2019	29 Jul 2019	05 Aug 2019	29 Jul 2019
SPC-SW-DN	SE195604.020	LB179526	22 Jul 2019	23 Jul 2019	29 Jul 2019	29 Jul 2019	05 Aug 2019	29 Jul 2019

### Total Phenolics in Water

Method: ME-(AU)-ENVJAN289

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW1S	SE195604.002	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW2	SE195604.003	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW3	SE195604.004	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW4	SE195604.005	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW5	SE195604.006	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW5A	SE195604.007	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW6	SE195604.008	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW6S	SE195604.009	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW7	SE195604.010	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW8D	SE195604.011	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW8S	SE195604.012	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW9S	SE195604.013	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GW11S	SE195604.015	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-GWQ	SE195604.016	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-B	SE195604.017	LB179533	22 Jul 2019	23 Jul 2019	19 Aug 2019	29 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-SW-UP	SE195604.018	LB179678	22 Jul 2019	23 Jul 2019	19 Aug 2019	30 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-SW-MID	SE195604.019	LB179678	22 Jul 2019	23 Jul 2019	19 Aug 2019	30 Jul 2019	19 Aug 2019	30 Jul 2019
SPC-SW-DN	SE195604.020	LB179678	22 Jul 2019	23 Jul 2019	19 Aug 2019	30 Jul 2019	19 Aug 2019	30 Jul 2019

### Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-ENVJAN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW1S	SE195604.002	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW2	SE195604.003	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW3	SE195604.004	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW4	SE195604.005	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW5	SE195604.006	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW5A	SE195604.007	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW6	SE195604.008	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW6S	SE195604.009	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW7	SE195604.010	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW8D	SE195604.011	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW8S	SE195604.012	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW9S	SE195604.013	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW10S	SE195604.014	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GW11S	SE195604.015	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-GWQ	SE195604.016	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-B	SE195604.017	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-SW-UP	SE195604.018	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-SW-MID	SE195604.019	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019
SPC-SW-DN	SE195604.020	LB179297	22 Jul 2019	23 Jul 2019	18 Jan 2020	25 Jul 2019	18 Jan 2020	26 Jul 2019

### TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW1S	SE195604.002	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW2	SE195604.003	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW3	SE195604.004	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW4	SE195604.005	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW5	SE195604.006	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019



## HOLDING TIME SUMMARY

SE195604 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-ENVJAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW5A	SE195604.007	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW6	SE195604.008	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW6S	SE195604.009	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW7	SE195604.010	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW8D	SE195604.011	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW8S	SE195604.012	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW9S	SE195604.013	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GW11S	SE195604.015	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-GWQ	SE195604.016	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-B	SE195604.017	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-SW-UP	SE195604.018	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-SW-MID	SE195604.019	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019
SPC-SW-DN	SE195604.020	LB179318	22 Jul 2019	23 Jul 2019	29 Jul 2019	25 Jul 2019	03 Sep 2019	30 Jul 2019

### VOCs in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW1S	SE195604.002	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW2	SE195604.003	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW3	SE195604.004	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW4	SE195604.005	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW5	SE195604.006	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW5A	SE195604.007	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW6	SE195604.008	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW6S	SE195604.009	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW7	SE195604.010	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW8D	SE195604.011	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW8S	SE195604.012	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW9S	SE195604.013	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW10S	SE195604.014	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW11S	SE195604.015	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GWQ	SE195604.016	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-B	SE195604.017	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-SW-UP	SE195604.018	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-SW-MID	SE195604.019	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-SW-DN	SE195604.020	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019

### Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-GW1	SE195604.001	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW1S	SE195604.002	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW2	SE195604.003	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW3	SE195604.004	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW4	SE195604.005	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW5	SE195604.006	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW5A	SE195604.007	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW6	SE195604.008	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW6S	SE195604.009	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW7	SE195604.010	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW8D	SE195604.011	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW8S	SE195604.012	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW9S	SE195604.013	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW10S	SE195604.014	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GW11S	SE195604.015	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-GWQ	SE195604.016	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-B	SE195604.017	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-SW-UP	SE195604.018	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-SW-MID	SE195604.019	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019
SPC-SW-DN	SE195604.020	LB179415	22 Jul 2019	23 Jul 2019	29 Jul 2019	26 Jul 2019	04 Sep 2019	31 Jul 2019

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-(ENV)QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OC Pesticides in Water

Method: ME-(AU)-(ENV)AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	74
	SPC-GW1S	SE195604.002	%	40 - 130%	62
	SPC-GW2	SE195604.003	%	40 - 130%	72
	SPC-GW3	SE195604.004	%	40 - 130%	77
	SPC-GW4	SE195604.005	%	40 - 130%	72
	SPC-GW5	SE195604.006	%	40 - 130%	63
	SPC-GW5A	SE195604.007	%	40 - 130%	53
	SPC-GW6	SE195604.008	%	40 - 130%	79
	SPC-GW6S	SE195604.009	%	40 - 130%	50
	SPC-GW7	SE195604.010	%	40 - 130%	73
	SPC-GW8D	SE195604.011	%	40 - 130%	61
	SPC-GW8S	SE195604.012	%	40 - 130%	50
	SPC-GW9S	SE195604.013	%	40 - 130%	66
	SPC-GW11S	SE195604.015	%	40 - 130%	60
	SPC-GWQ	SE195604.016	%	40 - 130%	58
	SPC-B	SE195604.017	%	40 - 130%	59
	SPC-SW-UP	SE195604.018	%	40 - 130%	80
	SPC-SW-MID	SE195604.019	%	40 - 130%	66
	SPC-SW-DN	SE195604.020	%	40 - 130%	65

## OP Pesticides in Water

Method: ME-(AU)-(ENV)AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	74
	SPC-GW1S	SE195604.002	%	40 - 130%	72
	SPC-GW2	SE195604.003	%	40 - 130%	68
	SPC-GW3	SE195604.004	%	40 - 130%	84
	SPC-GW4	SE195604.005	%	40 - 130%	78
	SPC-GW5	SE195604.006	%	40 - 130%	76
	SPC-GW5A	SE195604.007	%	40 - 130%	78
	SPC-GW6	SE195604.008	%	40 - 130%	74
	SPC-GW6S	SE195604.009	%	40 - 130%	66
	SPC-GW7	SE195604.010	%	40 - 130%	74
	SPC-GW8D	SE195604.011	%	40 - 130%	76
	SPC-GW8S	SE195604.012	%	40 - 130%	80
	SPC-GW9S	SE195604.013	%	40 - 130%	64
	SPC-GW11S	SE195604.015	%	40 - 130%	72
	SPC-GWQ	SE195604.016	%	40 - 130%	66
	SPC-B	SE195604.017	%	40 - 130%	72
	SPC-SW-UP	SE195604.018	%	40 - 130%	76
	SPC-SW-MID	SE195604.019	%	40 - 130%	66
	SPC-SW-DN	SE195604.020	%	40 - 130%	64
d14-p-terphenyl (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	78
	SPC-GW1S	SE195604.002	%	40 - 130%	76
	SPC-GW2	SE195604.003	%	40 - 130%	72
	SPC-GW3	SE195604.004	%	40 - 130%	88
	SPC-GW4	SE195604.005	%	40 - 130%	82
	SPC-GW5	SE195604.006	%	40 - 130%	74
	SPC-GW5A	SE195604.007	%	40 - 130%	78
	SPC-GW6	SE195604.008	%	40 - 130%	78
	SPC-GW6S	SE195604.009	%	40 - 130%	70
	SPC-GW7	SE195604.010	%	40 - 130%	74
	SPC-GW8D	SE195604.011	%	40 - 130%	72
	SPC-GW8S	SE195604.012	%	40 - 130%	78
	SPC-GW9S	SE195604.013	%	40 - 130%	64
	SPC-GW11S	SE195604.015	%	40 - 130%	76
	SPC-GWQ	SE195604.016	%	40 - 130%	62
	SPC-B	SE195604.017	%	40 - 130%	80
	SPC-SW-UP	SE195604.018	%	40 - 130%	78
	SPC-SW-MID	SE195604.019	%	40 - 130%	72
	SPC-SW-DN	SE195604.020	%	40 - 130%	74

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-(ENV)QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-(ENV)AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	74
	SPC-GW1S	SE195604.002	%	40 - 130%	72
	SPC-GW2	SE195604.003	%	40 - 130%	68
	SPC-GW3	SE195604.004	%	40 - 130%	84
	SPC-GW4	SE195604.005	%	40 - 130%	78
	SPC-GW5	SE195604.006	%	40 - 130%	76
	SPC-GW5A	SE195604.007	%	40 - 130%	78
	SPC-GW6	SE195604.008	%	40 - 130%	74
	SPC-GW6S	SE195604.009	%	40 - 130%	66
	SPC-GW7	SE195604.010	%	40 - 130%	74
	SPC-GW8D	SE195604.011	%	40 - 130%	76
	SPC-GW8S	SE195604.012	%	40 - 130%	80
	SPC-GW9S	SE195604.013	%	40 - 130%	64
	SPC-GW11S	SE195604.015	%	40 - 130%	72
	SPC-GWQ	SE195604.016	%	40 - 130%	66
	SPC-B	SE195604.017	%	40 - 130%	72
	SPC-SW-UP	SE195604.018	%	40 - 130%	76
	SPC-SW-MID	SE195604.019	%	40 - 130%	66
	SPC-SW-DN	SE195604.020	%	40 - 130%	64
d14-p-terphenyl (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	78
	SPC-GW1S	SE195604.002	%	40 - 130%	76
	SPC-GW2	SE195604.003	%	40 - 130%	72
	SPC-GW3	SE195604.004	%	40 - 130%	88
	SPC-GW4	SE195604.005	%	40 - 130%	82
	SPC-GW5	SE195604.006	%	40 - 130%	74
	SPC-GW5A	SE195604.007	%	40 - 130%	78
	SPC-GW6	SE195604.008	%	40 - 130%	78
	SPC-GW6S	SE195604.009	%	40 - 130%	70
	SPC-GW7	SE195604.010	%	40 - 130%	74
	SPC-GW8D	SE195604.011	%	40 - 130%	72
	SPC-GW8S	SE195604.012	%	40 - 130%	78
	SPC-GW9S	SE195604.013	%	40 - 130%	64
	SPC-GW11S	SE195604.015	%	40 - 130%	76
	SPC-GWQ	SE195604.016	%	40 - 130%	62
	SPC-B	SE195604.017	%	40 - 130%	80
	SPC-SW-UP	SE195604.018	%	40 - 130%	78
	SPC-SW-MID	SE195604.019	%	40 - 130%	72
	SPC-SW-DN	SE195604.020	%	40 - 130%	74
d5-nitrobenzene (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	74
	SPC-GW1S	SE195604.002	%	40 - 130%	64
	SPC-GW2	SE195604.003	%	40 - 130%	64
	SPC-GW3	SE195604.004	%	40 - 130%	74
	SPC-GW4	SE195604.005	%	40 - 130%	72
	SPC-GW5	SE195604.006	%	40 - 130%	56
	SPC-GW5A	SE195604.007	%	40 - 130%	72
	SPC-GW6	SE195604.008	%	40 - 130%	68
	SPC-GW6S	SE195604.009	%	40 - 130%	48
	SPC-GW7	SE195604.010	%	40 - 130%	60
	SPC-GW8D	SE195604.011	%	40 - 130%	58
	SPC-GW8S	SE195604.012	%	40 - 130%	66
	SPC-GW9S	SE195604.013	%	40 - 130%	48
	SPC-GW11S	SE195604.015	%	40 - 130%	66
	SPC-GWQ	SE195604.016	%	40 - 130%	56
	SPC-B	SE195604.017	%	40 - 130%	62
	SPC-SW-UP	SE195604.018	%	40 - 130%	70
	SPC-SW-MID	SE195604.019	%	40 - 130%	60
	SPC-SW-DN	SE195604.020	%	40 - 130%	58

## VOCs in Water

Method: ME-(AU)-(ENV)AN433

Parameter	Sample Name	Sample Number	Units
-----------	-------------	---------------	-------

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	94
	SPC-GW1S	SE195604.002	%	40 - 130%	95
	SPC-GW2	SE195604.003	%	40 - 130%	97
	SPC-GW3	SE195604.004	%	40 - 130%	97
	SPC-GW4	SE195604.005	%	40 - 130%	97
	SPC-GW5	SE195604.006	%	40 - 130%	106
	SPC-GW5A	SE195604.007	%	40 - 130%	95
	SPC-GW6	SE195604.008	%	40 - 130%	98
	SPC-GW6S	SE195604.009	%	40 - 130%	96
	SPC-GW7	SE195604.010	%	40 - 130%	93
	SPC-GW8D	SE195604.011	%	40 - 130%	109
	SPC-GW8S	SE195604.012	%	40 - 130%	111
	SPC-GW9S	SE195604.013	%	40 - 130%	96
	SPC-GW10S	SE195604.014	%	40 - 130%	94
	SPC-GW11S	SE195604.015	%	40 - 130%	95
	SPC-GWQ	SE195604.016	%	40 - 130%	113
	SPC-B	SE195604.017	%	40 - 130%	98
	SPC-SW-UP	SE195604.018	%	40 - 130%	95
	SPC-SW-MID	SE195604.019	%	40 - 130%	102
	SPC-SW-DN	SE195604.020	%	40 - 130%	95
d4-1,2-dichloroethane (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	121
	SPC-GW1S	SE195604.002	%	40 - 130%	115
	SPC-GW2	SE195604.003	%	40 - 130%	116
	SPC-GW3	SE195604.004	%	40 - 130%	120
	SPC-GW4	SE195604.005	%	40 - 130%	111
	SPC-GW5	SE195604.006	%	40 - 130%	121
	SPC-GW5A	SE195604.007	%	40 - 130%	116
	SPC-GW6	SE195604.008	%	40 - 130%	121
	SPC-GW6S	SE195604.009	%	40 - 130%	122
	SPC-GW7	SE195604.010	%	40 - 130%	122
	SPC-GW8D	SE195604.011	%	40 - 130%	118
	SPC-GW8S	SE195604.012	%	40 - 130%	124
	SPC-GW9S	SE195604.013	%	40 - 130%	124
	SPC-GW10S	SE195604.014	%	40 - 130%	114
	SPC-GW11S	SE195604.015	%	40 - 130%	124
	SPC-GWQ	SE195604.016	%	40 - 130%	123
	SPC-B	SE195604.017	%	40 - 130%	112
	SPC-SW-UP	SE195604.018	%	40 - 130%	118
	SPC-SW-MID	SE195604.019	%	40 - 130%	118
	SPC-SW-DN	SE195604.020	%	40 - 130%	121
d8-toluene (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	103
	SPC-GW1S	SE195604.002	%	40 - 130%	101
	SPC-GW2	SE195604.003	%	40 - 130%	99
	SPC-GW3	SE195604.004	%	40 - 130%	97
	SPC-GW4	SE195604.005	%	40 - 130%	97
	SPC-GW5	SE195604.006	%	40 - 130%	94
	SPC-GW5A	SE195604.007	%	40 - 130%	99
	SPC-GW6	SE195604.008	%	40 - 130%	95
	SPC-GW6S	SE195604.009	%	40 - 130%	99
	SPC-GW7	SE195604.010	%	40 - 130%	97
	SPC-GW8D	SE195604.011	%	40 - 130%	93
	SPC-GW8S	SE195604.012	%	40 - 130%	98
	SPC-GW9S	SE195604.013	%	40 - 130%	100
	SPC-GW10S	SE195604.014	%	40 - 130%	94
	SPC-GW11S	SE195604.015	%	40 - 130%	105
	SPC-GWQ	SE195604.016	%	40 - 130%	94
	SPC-B	SE195604.017	%	40 - 130%	97
	SPC-SW-UP	SE195604.018	%	40 - 130%	97
	SPC-SW-MID	SE195604.019	%	40 - 130%	92
	SPC-SW-DN	SE195604.020	%	40 - 130%	94
Dibromofluoromethane (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	112

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Dibromofluoromethane (Surrogate)	SPC-GW1S	SE195604.002	%	40 - 130%	107
	SPC-GW2	SE195604.003	%	40 - 130%	111
	SPC-GW3	SE195604.004	%	40 - 130%	111
	SPC-GW4	SE195604.005	%	40 - 130%	110
	SPC-GW5	SE195604.006	%	40 - 130%	96
	SPC-GW5A	SE195604.007	%	40 - 130%	111
	SPC-GW6	SE195604.008	%	40 - 130%	120
	SPC-GW6S	SE195604.009	%	40 - 130%	116
	SPC-GW7	SE195604.010	%	40 - 130%	100
	SPC-GW8D	SE195604.011	%	40 - 130%	109
	SPC-GW8S	SE195604.012	%	40 - 130%	113
	SPC-GW9S	SE195604.013	%	40 - 130%	119
	SPC-GW10S	SE195604.014	%	40 - 130%	117
	SPC-GW11S	SE195604.015	%	40 - 130%	119
	SPC-GWQ	SE195604.016	%	40 - 130%	123
	SPC-B	SE195604.017	%	40 - 130%	106
	SPC-SW-UP	SE195604.018	%	40 - 130%	108
	SPC-SW-MID	SE195604.019	%	40 - 130%	114
	SPC-SW-DN	SE195604.020	%	40 - 130%	114

## Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	94
	SPC-GW1S	SE195604.002	%	40 - 130%	95
	SPC-GW2	SE195604.003	%	40 - 130%	97
	SPC-GW3	SE195604.004	%	40 - 130%	97
	SPC-GW4	SE195604.005	%	40 - 130%	97
	SPC-GW5	SE195604.006	%	40 - 130%	106
	SPC-GW5A	SE195604.007	%	40 - 130%	95
	SPC-GW6	SE195604.008	%	40 - 130%	98
	SPC-GW6S	SE195604.009	%	40 - 130%	96
	SPC-GW7	SE195604.010	%	40 - 130%	93
	SPC-GW8D	SE195604.011	%	40 - 130%	109
	SPC-GW8S	SE195604.012	%	40 - 130%	111
	SPC-GW9S	SE195604.013	%	40 - 130%	96
	SPC-GW10S	SE195604.014	%	40 - 130%	94
	SPC-GW11S	SE195604.015	%	40 - 130%	95
	SPC-GWQ	SE195604.016	%	40 - 130%	113
	SPC-B	SE195604.017	%	40 - 130%	98
	SPC-SW-UP	SE195604.018	%	40 - 130%	95
	SPC-SW-MID	SE195604.019	%	40 - 130%	102
	SPC-SW-DN	SE195604.020	%	40 - 130%	95
d4-1,2-dichloroethane (Surrogate)	SPC-GW1	SE195604.001	%	60 - 130%	121
	SPC-GW1S	SE195604.002	%	60 - 130%	115
	SPC-GW2	SE195604.003	%	60 - 130%	116
	SPC-GW3	SE195604.004	%	60 - 130%	120
	SPC-GW4	SE195604.005	%	60 - 130%	111
	SPC-GW5	SE195604.006	%	60 - 130%	121
	SPC-GW5A	SE195604.007	%	60 - 130%	116
	SPC-GW6	SE195604.008	%	60 - 130%	121
	SPC-GW6S	SE195604.009	%	60 - 130%	122
	SPC-GW7	SE195604.010	%	60 - 130%	122
	SPC-GW8D	SE195604.011	%	60 - 130%	118
	SPC-GW8S	SE195604.012	%	60 - 130%	124
	SPC-GW9S	SE195604.013	%	60 - 130%	124
	SPC-GW10S	SE195604.014	%	60 - 130%	114
	SPC-GW11S	SE195604.015	%	60 - 130%	124
	SPC-GWQ	SE195604.016	%	60 - 130%	123
	SPC-B	SE195604.017	%	60 - 130%	112
	SPC-SW-UP	SE195604.018	%	60 - 130%	118
	SPC-SW-MID	SE195604.019	%	60 - 130%	118

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Volatile Petroleum Hydrocarbons in Water (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	SPC-SW-DN	SE195604.020	%	60 - 130%	121
	SPC-GW1	SE195604.001	%	40 - 130%	103
d8-toluene (Surrogate)	SPC-GW1S	SE195604.002	%	40 - 130%	101
	SPC-GW2	SE195604.003	%	40 - 130%	99
	SPC-GW3	SE195604.004	%	40 - 130%	97
	SPC-GW4	SE195604.005	%	40 - 130%	97
	SPC-GW5	SE195604.006	%	40 - 130%	94
	SPC-GW5A	SE195604.007	%	40 - 130%	99
	SPC-GW6	SE195604.008	%	40 - 130%	95
	SPC-GW6S	SE195604.009	%	40 - 130%	99
	SPC-GW7	SE195604.010	%	40 - 130%	97
	SPC-GW8D	SE195604.011	%	40 - 130%	93
	SPC-GW8S	SE195604.012	%	40 - 130%	98
	SPC-GW9S	SE195604.013	%	40 - 130%	100
	SPC-GW10S	SE195604.014	%	40 - 130%	94
	SPC-GW11S	SE195604.015	%	40 - 130%	105
	SPC-GWQ	SE195604.016	%	40 - 130%	94
	SPC-B	SE195604.017	%	40 - 130%	97
	SPC-SW-UP	SE195604.018	%	40 - 130%	97
	SPC-SW-MID	SE195604.019	%	40 - 130%	92
	SPC-SW-DN	SE195604.020	%	40 - 130%	94
Dibromofluoromethane (Surrogate)	SPC-GW1	SE195604.001	%	40 - 130%	112
	SPC-GW1S	SE195604.002	%	40 - 130%	107
	SPC-GW2	SE195604.003	%	40 - 130%	111
	SPC-GW3	SE195604.004	%	40 - 130%	111
	SPC-GW4	SE195604.005	%	40 - 130%	110
	SPC-GW5	SE195604.006	%	40 - 130%	96
	SPC-GW5A	SE195604.007	%	40 - 130%	111
	SPC-GW6	SE195604.008	%	40 - 130%	120
	SPC-GW6S	SE195604.009	%	40 - 130%	116
	SPC-GW7	SE195604.010	%	40 - 130%	100
	SPC-GW8D	SE195604.011	%	40 - 130%	109
	SPC-GW8S	SE195604.012	%	40 - 130%	113
	SPC-GW9S	SE195604.013	%	40 - 130%	119
	SPC-GW10S	SE195604.014	%	40 - 130%	117
	SPC-GW11S	SE195604.015	%	40 - 130%	119
	SPC-GWQ	SE195604.016	%	40 - 130%	123
	SPC-B	SE195604.017	%	40 - 130%	106
	SPC-SW-UP	SE195604.018	%	40 - 130%	108
	SPC-SW-MID	SE195604.019	%	40 - 130%	114
	SPC-SW-DN	SE195604.020	%	40 - 130%	114



## METHOD BLANKS

SE195604 R0

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result
LB179485.001	Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	<5

### Ammonia Nitrogen by Discrete Analyser (Aquakem)

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result
LB179309.001	Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	<0.01

### Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result
LB179327.001	Fluoride	mg/L	0.1	<0.10
	Chloride	mg/L	1	<0.05
	Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	<0.005
	Sulfate, SO <sub>4</sub>	mg/L	1	<1.0
LB179328.001	Fluoride	mg/L	0.1	<0.10
	Chloride	mg/L	1	<0.05
	Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	<0.005
	Sulfate, SO <sub>4</sub>	mg/L	1	<1.0

### Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result
LB179308.001	Total Organic Carbon as NPOC	mg/L	0.2	0.4

### Hexavalent Chromium in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN283

Sample Number	Parameter	Units	LOR	Result
LB179306.001	Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004

### Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB179313.001	Mercury	mg/L	0.0001	<0.0001

### Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result
LB179294.001	Calcium, Ca	mg/L	0.2	<0.2
	Magnesium, Mg	mg/L	0.1	<0.1
	Potassium, K	mg/L	0.1	<0.1
	Sodium, Na	mg/L	0.5	<0.5

### Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result
LB179309.001	Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	<0.005

### OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB179318.001	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
	Alpha BHC	µg/L	0.1	<0.1
	Lindane (gamma BHC)	µg/L	0.1	<0.1
	Heptachlor	µg/L	0.1	<0.1
	Aldrin	µg/L	0.1	<0.1
	Beta BHC	µg/L	0.1	<0.1
	Delta BHC	µg/L	0.1	<0.1
	Heptachlor epoxide	µg/L	0.1	<0.1
	Alpha Endosulfan	µg/L	0.1	<0.1
	Gamma Chlordane	µg/L	0.1	<0.1
	Alpha Chlordane	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## OC Pesticides in Water (continued)

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB179318.001	p,p'-DDE	µg/L	0.1	<0.1
	Dieldrin	µg/L	0.1	<0.1
	Endrin	µg/L	0.1	<0.1
	Beta Endosulfan	µg/L	0.1	<0.1
	p,p'-DDD	µg/L	0.1	<0.1
	p,p'-DDT	µg/L	0.1	<0.1
	Endosulfan sulphate	µg/L	0.1	<0.1
	Endrin aldehyde	µg/L	0.1	<0.1
	Methoxychlor	µg/L	0.1	<0.1
	Endrin ketone	µg/L	0.1	<0.1
	Isodrin	µg/L	0.1	<0.1
	Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	61

## OP Pesticides in Water

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB179318.001	Dichlorvos	µg/L	0.5	<0.5
	Dimethoate	µg/L	0.5	<0.5
	Diazinon (Dimpylate)	µg/L	0.5	<0.5
	Fenitrothion	µg/L	0.2	<0.2
	Malathion	µg/L	0.2	<0.2
	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
	Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Bromophos Ethyl	µg/L	0.2	<0.2
	Methidathion	µg/L	0.5	<0.5
	Ethion	µg/L	0.2	<0.2
	Azinphos-methyl	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	72
		d14-p-terphenyl (Surrogate)	%	86

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB179318.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(a)pyrene	µg/L	0.1	<0.1
	Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
	Dibenzo(ah)anthracene	µg/L	0.1	<0.1
	Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	64
		2-fluorobiphenyl (Surrogate)	%	72
		d14-p-terphenyl (Surrogate)	%	86

## Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-ENVJAN114

Sample Number	Parameter	Units	LOR	Result
LB179526.001	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5

## Total Phenolics in Water

Method: ME-(AU)-ENVJAN289

Sample Number	Parameter	Units	LOR	Result
LB179533.001	Total Phenols	mg/L	0.01	<0.01
LB179678.001	Total Phenols	mg/L	0.01	<0.01

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB179297.001	Aluminium, Al	µg/L	5	<5
	Arsenic, As	µg/L	1	<1
	Barium, Ba	µg/L	1	<1
	Cadmium, Cd	µg/L	0.1	<0.1
	Chromium, Cr	µg/L	1	<1
	Cobalt, Co	µg/L	1	<1
	Copper, Cu	µg/L	1	<1
	Lead, Pb	µg/L	1	<1
	Manganese, Mn	µg/L	1	<1
	Zinc, Zn	µg/L	5	<5

## TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB179318.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

## VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB179415.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene	µg/L	0.5	<0.5
	Surrogates	Dibromofluoromethane (Surrogate)	%	-	105
		d4-1,2-dichloroethane (Surrogate)	%	-	111
		d8-toluene (Surrogate)	%	-	101
		Bromofluorobenzene (Surrogate)	%	-	93

## Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result
LB179415.001	TRH C6-C9	µg/L	40	<40
	Surrogates			
	Dibromofluoromethane (Surrogate)	%	-	105
	d4-1,2-dichloroethane (Surrogate)	%	-	111
	d8-toluene (Surrogate)	%	-	101
	Bromofluorobenzene (Surrogate)	%	-	93

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Alkalinity

Method: ME-(AU)-[ENV]AN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.010	LB179485.013	Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	770	790	16	3
SE195604.020	LB179485.023	Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	120	120	19	1

## Ammonia Nitrogen by Discrete Analyser (Aquakem)

Method: ME-(AU)-[ENV]AN291

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.010	LB179309.014	Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	7.5	7.4	15	1
SE195604.020	LB179309.027	Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	0.70	0.69	16	1

## Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.001	LB179327.013	Fluoride	mg/L	0.1	0.43	0.44	38	3
		Chloride	mg/L	1	1900	1900	15	2
		Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	<0.050	<0.050	200	0
		Sulfate, SO <sub>4</sub>	mg/L	1	580	590	15	1
SE195604.011	LB179327.024	Fluoride	mg/L	0.1	<0.20	<0.20	135	0
		Chloride	mg/L	1	930	940	15	1
		Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	<0.050	<0.050	200	0
		Sulfate, SO <sub>4</sub>	mg/L	1	14	13	22	1
SE195648.001	LB179328.013	Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	0	0	200	0

## Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.009	LB179308.014	Total Organic Carbon as NPOC	mg/L	0.2	260	250	15	3
SE195604.020	LB179308.029	Total Organic Carbon as NPOC	mg/L	0.2	6.0	5.9	18	1

## Hexavalent Chromium in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN283

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.001	LB179306.004	Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	<0.004	200	0
SE195604.011	LB179306.016	Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	<0.004	<0.004	200	0

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.010	LB179294.014	Calcium, Ca	mg/L	0.2	170	170	15	0
		Magnesium, Mg	mg/L	0.1	260	260	15	1
		Potassium, K	mg/L	0.1	160	160	15	1
		Sodium, Na	mg/L	0.5	2700	2700	15	0
SE195604.020	LB179294.027	Calcium, Ca	mg/L	0.2	170	170	15	0
		Magnesium, Mg	mg/L	0.1	480	490	15	1
		Potassium, K	mg/L	0.1	240	240	15	0
		Sodium, Na	mg/L	0.5	4100	4200	15	2

## Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.020	LB179309.027	Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	0.061	0.061	23	1

## OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.016	LB179318.022	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	200	0
		Alpha BHC	µg/L	0.1	<0.1	<0.1	200	0
		Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	200	0
		Heptachlor	µg/L	0.1	<0.1	<0.1	200	0
		Aldrin	µg/L	0.1	<0.1	<0.1	200	0
		Beta BHC	µg/L	0.1	<0.1	<0.1	200	0
		Delta BHC	µg/L	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	200	0
		o,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OC Pesticides in Water (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.016	LB179318.022	Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
		Gamma Chlordane	µg/L	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	µg/L	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0
		Dieldrin	µg/L	0.1	<0.1	<0.1	200	0
		Endrin	µg/L	0.1	<0.1	<0.1	200	0
		o,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
		o,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	200	0
		Endrin aldehyde	µg/L	0.1	<0.1	<0.1	200	0
		Methoxychlor	µg/L	0.1	<0.1	<0.1	200	0
		Endrin ketone	µg/L	0.1	<0.1	<0.1	200	0
		Isodrin	µg/L	0.1	<0.1	<0.1	200	0
		Mirex	µg/L	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.09	0.08	30	13
SE195604.020	LB179318.024	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	200	0
		Alpha BHC	µg/L	0.1	<0.1	<0.1	200	0
		Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	200	0
		Heptachlor	µg/L	0.1	<0.1	<0.1	200	0
		Aldrin	µg/L	0.1	<0.1	<0.1	200	0
		Beta BHC	µg/L	0.1	<0.1	<0.1	200	0
		Delta BHC	µg/L	0.1	<0.1	<0.1	200	0
		Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	200	0
		o,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0
		Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
		Gamma Chlordane	µg/L	0.1	<0.1	<0.1	200	0
		Alpha Chlordane	µg/L	0.1	<0.1	<0.1	200	0
		trans-Nonachlor	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0
		Dieldrin	µg/L	0.1	<0.1	<0.1	200	0
		Endrin	µg/L	0.1	<0.1	<0.1	200	0
		o,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
		o,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
		Beta Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
		p,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
		Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	200	0
		Endrin aldehyde	µg/L	0.1	<0.1	<0.1	200	0
		Methoxychlor	µg/L	0.1	<0.1	<0.1	200	0
		Endrin ketone	µg/L	0.1	<0.1	<0.1	200	0
		Isodrin	µg/L	0.1	<0.1	<0.1	200	0
		Mirex	µg/L	0.1	<0.1	<0.1	200	0
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.10	0.11	30	14

## OP Pesticides in Water

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.016	LB179318.022	Dichlorvos	µg/L	0.5	<0.5	<0.5	200	0
		Dimethoate	µg/L	0.5	<0.5	<0.5	200	0
		Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	200	0
		Fenitrothion	µg/L	0.2	<0.2	<0.2	200	0
		Malathion	µg/L	0.2	<0.2	<0.2	200	0
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	200	0
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	200	0
		Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	200	0
		Methidathion	µg/L	0.5	<0.5	<0.5	200	0
		Ethion	µg/L	0.2	<0.2	<0.2	200	0
		Azinphos-methyl	µg/L	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OP Pesticides in Water (continued)

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.016	LB179318.022	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.4	30
			d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.4	30
SE195604.020	LB179318.024		Dichlorvos	µg/L	0.5	<0.5	<0.5	200
			Dimethoate	µg/L	0.5	<0.5	<0.5	200
			Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	200
			Fenitrothion	µg/L	0.2	<0.2	<0.2	200
			Malathion	µg/L	0.2	<0.2	<0.2	200
			Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	200
			Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	200
			Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	200
			Methidathion	µg/L	0.5	<0.5	<0.5	200
			Ethion	µg/L	0.2	<0.2	<0.2	200
			Azinphos-methyl	µg/L	0.2	<0.2	<0.2	200
		Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.4	30
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4	30

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.016	LB179318.022		Naphthalene	µg/L	0.1	1.5	1.5	37
			2-methylnaphthalene	µg/L	0.1	1.7	2.0	35
			1-methylnaphthalene	µg/L	0.1	1.7	1.9	36
			Acenaphthylene	µg/L	0.1	<0.1	<0.1	200
			Acenaphthene	µg/L	0.1	0.2	0.2	78
			Fluorene	µg/L	0.1	0.2	0.3	72
			Phenanthrene	µg/L	0.1	0.1	0.2	95
			Anthracene	µg/L	0.1	<0.1	<0.1	200
			Fluoranthene	µg/L	0.1	<0.1	<0.1	200
			Pyrene	µg/L	0.1	<0.1	<0.1	200
			Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200
			Chrysene	µg/L	0.1	<0.1	<0.1	200
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200
			Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.3	30
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.4	30
			d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.4	30
SE195604.020	LB179318.024		Naphthalene	µg/L	0.1	<0.1	<0.1	200
			2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200
			1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200
			Acenaphthylene	µg/L	0.1	<0.1	<0.1	200
			Acenaphthene	µg/L	0.1	<0.1	<0.1	200
			Fluorene	µg/L	0.1	<0.1	<0.1	200
			Phenanthrene	µg/L	0.1	<0.1	<0.1	200
			Anthracene	µg/L	0.1	<0.1	<0.1	200
			Fluoranthene	µg/L	0.1	<0.1	<0.1	200
			Pyrene	µg/L	0.1	<0.1	<0.1	200
			Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200
			Chrysene	µg/L	0.1	<0.1	<0.1	200
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200
			Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.3	30
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.4	30
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4	30

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-ENVJAN114

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195728.001	LB179526.013	Total Suspended Solids Dried at 103-105°C	mg/L	5	7.3333333333339	9.999999999	73	31

## Total Phenolics in Water

Method: ME-(AU)-ENVJAN289

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.001	LB179533.004	Total Phenols	mg/L	0.01	<0.01	<0.01	200	0
SE195604.018	LB179678.004	Total Phenols	mg/L	0.01	0.02	0.01	200	0

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-ENVJAN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.010	LB179297.014	Aluminium, Al	µg/L	5	5	6	105	13
		Arsenic, As	µg/L	1	3	3	52	12
		Barium, Ba	µg/L	1	1100	1100	15	1
		Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Chromium, Cr	µg/L	1	3	3	53	3
		Cobalt, Co	µg/L	1	5	5	35	2
		Copper, Cu	µg/L	1	<1	<1	200	0
		Lead, Pb	µg/L	1	<1	<1	200	0
		Manganese, Mn	µg/L	1	1200	1200	15	1
		Zinc, Zn	µg/L	5	<5	<5	200	0
SE195604.020	LB179297.027	Aluminium, Al	µg/L	5	23	22	37	7
		Arsenic, As	µg/L	1	<1	<1	176	0
		Barium, Ba	µg/L	1	53	57	17	9
		Cadmium, Cd	µg/L	0.1	<0.1	<0.1	200	0
		Chromium, Cr	µg/L	1	<1	<1	156	0
		Cobalt, Co	µg/L	1	<1	<1	200	0
		Copper, Cu	µg/L	1	2	1	78	22
		Lead, Pb	µg/L	1	<1	<1	200	0
		Manganese, Mn	µg/L	1	58	64	17	10
		Zinc, Zn	µg/L	5	36	29	30	21

## TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-ENVJAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.016	LB179318.022	TRH C10-C14	µg/L	50	770	970	36	23
		TRH C15-C28	µg/L	200	1800	2300	40	25
		TRH C29-C36	µg/L	200	360	380	84	5
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C36	µg/L	450	3000	3700	44	22
		TRH C10-C40	µg/L	650	3000	3700	50	22
		TRH >C10-C16	µg/L	60	1100	1400	35	24
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	1100	1400	35	24
		TRH >C16-C34 (F3)	µg/L	500	1700	2200	56	23
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE195604.020	LB179318.024	TRH C10-C14	µg/L	50	<50	<50	200	0
		TRH C15-C28	µg/L	200	<200	<200	200	0
		TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH C37-C40	µg/L	200	<200	<200	200	0
		TRH C10-C36	µg/L	450	<450	<450	200	0
		TRH C10-C40	µg/L	650	<650	<650	200	0
		TRH >C10-C16	µg/L	60	<60	<60	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
		TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
		TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

## VOCs in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.007	LB179415.023	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## VOCs in Water (continued)

Method: ME-(AU)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195604.007	LB179415.023	Monocyclic	o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	Dibromofluoromethane (Surrogate)	µg/L	-	5.6	5.9	30	6
			d4-1,2-dichloroethane (Surrogate)	µg/L	-	5.8	6.3	30	9
			d8-toluene (Surrogate)	µg/L	-	4.9	4.7	30	5
			Bromofluorobenzene (Surrogate)	µg/L	-	4.7	4.9	30	3
SE195604.016	LB179415.024	Monocyclic	Benzene	µg/L	0.5	17	17	33	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	143	0
			o-xylene	µg/L	0.5	0.6	0.6	111	1
		Polycyclic	Naphthalene	µg/L	0.5	2.9	2.7	48	5
		Surrogates	Dibromofluoromethane (Surrogate)	µg/L	-	6.1	6.1	30	0
			d4-1,2-dichloroethane (Surrogate)	µg/L	-	6.1	6.4	30	4
			d8-toluene (Surrogate)	µg/L	-	4.7	4.7	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	5.6	5.7	30	2

## Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE195604.007	LB179415.023	TRH C6-C10	µg/L	50	<50	<50	200	0	
		TRH C6-C9	µg/L	40	<40	<40	200	0	
		Surrogates	Dibromofluoromethane (Surrogate)	µg/L	-	5.6	5.9	30	6
			d4-1,2-dichloroethane (Surrogate)	µg/L	-	5.8	6.3	30	9
			d8-toluene (Surrogate)	µg/L	-	4.9	4.7	30	5
			Bromofluorobenzene (Surrogate)	µg/L	-	4.7	4.9	30	3
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE195604.016	LB179415.024	TRH C6-C10	µg/L	50	60	58	115	3	
		TRH C6-C9	µg/L	40	59	58	98	2	
		Surrogates	Dibromofluoromethane (Surrogate)	µg/L	-	6.1	6.1	30	0
			d4-1,2-dichloroethane (Surrogate)	µg/L	-	6.1	6.4	30	4
			d8-toluene (Surrogate)	µg/L	-	4.7	4.7	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	5.6	5.7	30	2
		VPH F Bands	Benzene (F0)	µg/L	0.5	17	17	33	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	156	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179485.002	Total Alkalinity as CaCO <sub>3</sub>	mg/L	5	61	59.5	76 - 124	103

## Ammonia Nitrogen by Discrete Analyser (Aquakem)

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179309.002	Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	2.5	2.5	80 - 120	99

## Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179327.002	Fluoride	mg/L	0.1	1.9	2	80 - 120	97
	Chloride	mg/L	1	18	20	80 - 120	92
	Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	1.8	2	80 - 120	92
	Sulfate, SO <sub>4</sub>	mg/L	1	18	20	80 - 120	91
LB179328.002	Fluoride	mg/L	0.1	1.9	2	80 - 120	94
	Chloride	mg/L	1	19	20	80 - 120	94
	Nitrate Nitrogen, NO <sub>3</sub> -N	mg/L	0.005	1.9	2	80 - 120	94
	Sulfate, SO <sub>4</sub>	mg/L	1	19	20	80 - 120	93

## Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179308.002	Total Organic Carbon as NPOC	mg/L	0.2	19	20	80 - 120	94

## Hexavalent Chromium in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN283

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179306.002	Hexavalent Chromium, Cr <sup>6+</sup>	mg/L	0.004	0.053	0.05	80 - 120	107

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179294.002	Calcium, Ca	mg/L	0.2	1.8	2	80 - 120	93
	Magnesium, Mg	mg/L	0.1	1.8	2	80 - 120	91
	Potassium, K	mg/L	0.1	18	20	80 - 120	88
	Sodium, Na	mg/L	0.5	1.7	2	80 - 120	86

## Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179309.002	Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	0.099	0.1	80 - 120	99

## OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179318.002	Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	96
	Aldrin	µg/L	0.1	0.2	0.2	60 - 140	77
	Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	103
	Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	101
	Endrin	µg/L	0.1	0.2	0.2	60 - 140	99
	p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	100
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.10	0.15	40 - 130	65

## OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179318.002	Dichlorvos	µg/L	0.5	7.9	8	60 - 140	99
	Diazinon (Dimpylate)	µg/L	0.5	7.8	8	60 - 140	97
	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	7.5	8	60 - 140	93
	Ethion	µg/L	0.2	7.3	8	60 - 140	92
Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62
	d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	66



## LABORATORY CONTROL SAMPLES

SE195604 R0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179318.002	Naphthalene	µg/L	0.1	30	40	60 - 140	76
	Acenaphthylene	µg/L	0.1	30	40	60 - 140	75
	Acenaphthene	µg/L	0.1	32	40	60 - 140	79
	Phenanthrene	µg/L	0.1	35	40	60 - 140	87
	Anthracene	µg/L	0.1	32	40	60 - 140	81
	Fluoranthene	µg/L	0.1	31	40	60 - 140	77
	Pyrene	µg/L	0.1	31	40	60 - 140	77
	Benzo(a)pyrene	µg/L	0.1	34	40	60 - 140	86
	Surrogates						
	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	56
	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62
	d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	66

## Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179526.002	Total Suspended Solids Dried at 103-105°C	mg/L	5	97	100	80 - 120	97

## Total Phenolics in Water

Method: ME-(AU)-[ENV]AN289

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179533.002	Total Phenols	mg/L	0.01	0.25	0.25	80 - 120	98
LB179678.002	Total Phenols	mg/L	0.01	0.23	0.25	80 - 120	91

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179297.002	Aluminium, Al	µg/L	5	21	20	80 - 120	104
	Arsenic, As	µg/L	1	20	20	80 - 120	100
	Barium, Ba	µg/L	1	19	20	80 - 120	97
	Cadmium, Cd	µg/L	0.1	19	20	80 - 120	96
	Chromium, Cr	µg/L	1	23	20	80 - 120	114
	Cobalt, Co	µg/L	1	22	20	80 - 120	109
	Copper, Cu	µg/L	1	21	20	80 - 120	105
	Lead, Pb	µg/L	1	19	20	80 - 120	95
	Manganese, Mn	µg/L	1	20	20	80 - 120	99
	Zinc, Zn	µg/L	5	21	20	80 - 120	103

## TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179318.002	TRH C10-C14	µg/L	50	960	1200	60 - 140	80
	TRH C15-C28	µg/L	200	1200	1200	60 - 140	98
	TRH C29-C36	µg/L	200	1400	1200	60 - 140	116
	TRH F Bands						
	TRH >C10-C16	µg/L	60	1100	1200	60 - 140	88
	TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	109
	TRH >C34-C40 (F4)	µg/L	500	730	600	60 - 140	121

## VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179415.002	Monocyclic						
	Aromatic						
	Benzene	µg/L	0.5	55	45.45	60 - 140	122
	Toluene	µg/L	0.5	58	45.45	60 - 140	127
	Ethylbenzene	µg/L	0.5	59	45.45	60 - 140	129
	m/p-xylene	µg/L	1	130	90.9	60 - 140	139
	o-xylene	µg/L	0.5	59	45.45	60 - 140	130
	Surrogates						
	Dibromofluoromethane (Surrogate)	µg/L	-	5.0	5	60 - 140	100
	d4-1,2-dichloroethane (Surrogate)	µg/L	-	5.5	5	60 - 140	110
	c8-toluene (Surrogate)	µg/L	-	5.0	5	60 - 140	101
	Bromofluorobenzene (Surrogate)	µg/L	-	5.3	5	60 - 140	106

## Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179415.002	TRH C6-C10	µg/L	50	1100	946.63	60 - 140	121
	TRH C6-C9	µg/L	40	1100	818.71	60 - 140	133
	Surrogates						
	Dibromofluoromethane (Surrogate)	µg/L	-	5.0	5	60 - 140	100
	d4-1,2-dichloroethane (Surrogate)	µg/L	-	5.5	5	60 - 140	110



Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Volatile Petroleum Hydrocarbons in Water (continued)

Method: ME-(AU)-(ENV)AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB179415.002	Surrogates	d8-toluene (Surrogate)	µg/L	-	5.0	5	60 - 140	101
		Bromofluorobenzene (Surrogate)	µg/L	-	5.3	5	60 - 140	106
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	790	639.67	60 - 140	124

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Ammonia Nitrogen by Discrete Analyser (Aquakem)

Method: ME-(AU)-(ENV)JAN291

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.001	LB179309.004	Ammonia Nitrogen, NH <sub>3</sub> as N	mg/L	0.01	2.5	0.07	2.5	99

## Forms of Carbon

Method: ME-(AU)-(ENV)JAN190

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195646.005	LB179308.004	Total Organic Carbon as NPOC	mg/L	0.2	51	1.6	50	99

## Hexavalent Chromium in water by Discrete Analyser

Method: ME-(AU)-(ENV)JAN283

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.020	LB179306.027	Hexavalent Chromium, Cr6+	mg/L	0.004	0.051	<0.004	0.05	98

## Nitrite in Water

Method: ME-(AU)-(ENV)JAN277

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.001	LB179309.004	Nitrite Nitrogen, NO <sub>2</sub> as N	mg/L	0.005	0.090	<0.005	0.1	92

## OC Pesticides in Water

Method: ME-(AU)-(ENV)JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.017	LB179318.025	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	-	-
		Alpha BHC	µg/L	0.1	<0.1	<0.1	-	-
		Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	-	-
		Heptachlor	µg/L	0.1	0.2	<0.1	0.2	92
		Aldrin	µg/L	0.1	0.2	<0.1	0.2	75
		Beta BHC	µg/L	0.1	<0.1	<0.1	-	-
		Delta BHC	µg/L	0.1	0.2	<0.1	0.2	101
		Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	-	-
		o,p'-DDE	µg/L	0.1	<0.1	<0.1	-	-
		Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	-	-
		Gamma Chlordane	µg/L	0.1	<0.1	<0.1	-	-
		Alpha Chlordane	µg/L	0.1	<0.1	<0.1	-	-
		trans-Nonachlor	µg/L	0.1	<0.1	<0.1	-	-
		p,p'-DDE	µg/L	0.1	<0.1	<0.1	-	-
		Dieldrin	µg/L	0.1	0.2	<0.1	0.2	93
		Endrin	µg/L	0.1	0.2	<0.1	0.2	91
		o,p'-DDD	µg/L	0.1	<0.1	<0.1	-	-
		o,p'-DDT	µg/L	0.1	<0.1	<0.1	-	-
		Beta Endosulfan	µg/L	0.1	<0.1	<0.1	-	-
		p,p'-DDD	µg/L	0.1	<0.1	<0.1	-	-
		p,p'-DDT	µg/L	0.1	0.2	<0.1	0.2	88
		Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	-	-
		Endrin aldehyde	µg/L	0.1	<0.1	<0.1	-	-
		Methoxychlor	µg/L	0.1	<0.1	<0.1	-	-
		Endrin ketone	µg/L	0.1	<0.1	<0.1	-	-
		Isodrin	µg/L	0.1	<0.1	<0.1	-	-
		Mirex	µg/L	0.1	<0.1	<0.1	-	-
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.12	0.09	-	83	

## OP Pesticides in Water

Method: ME-(AU)-(ENV)JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.018	LB179318.023	Dichlorvos	µg/L	0.5	9.5	<0.5	8	119
		Dimethoate	µg/L	0.5	<0.5	<0.5	-	-
		Diazinon (Dimpylate)	µg/L	0.5	8.3	<0.5	8	104
		Fenitrothion	µg/L	0.2	<0.2	<0.2	-	-
		Malathion	µg/L	0.2	<0.2	<0.2	-	-
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	6.5	<0.2	8	82
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OP Pesticides in Water (continued)

Method: ME-(AU)-(ENV)JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.018	LB179318.023	Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	-	-
		Methidathion	µg/L	0.5	<0.5	<0.5	-	-
		Ethion	µg/L	0.2	6.1	<0.2	8	76
		Azinphos-methyl	µg/L	0.2	<0.2	<0.2	-	-
		Surrogates						
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.4	-	88
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4	-	70

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-(ENV)JAN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.018	LB179318.023	Naphthalene	µg/L	0.1	35	<0.1	40	88
		2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	-	-
		Acenaphthylene	µg/L	0.1	45	<0.1	40	113
		Acenaphthene	µg/L	0.1	39	<0.1	40	97
		Fluorene	µg/L	0.1	<0.1	<0.1	-	-
		Phenanthrene	µg/L	0.1	41	<0.1	40	103
		Anthracene	µg/L	0.1	32	<0.1	40	80
		Fluoranthene	µg/L	0.1	36	<0.1	40	90
		Pyrene	µg/L	0.1	36	<0.1	40	90
		Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	-	-
		Chrysene	µg/L	0.1	<0.1	<0.1	-	-
		Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	-	-
		Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	-	-
		Benzo(a)pyrene	µg/L	0.1	41	<0.1	40	102
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	-	-
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	-	-
		Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	-	-
		Surrogates						
		d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.4	-	84
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.4	-	88
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4	-	70

## Total Phenolics in Water

Method: ME-(AU)-(ENV)JAN289

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.017	LB179533.021	Total Phenols	mg/L	0.01	0.22	0.02	0.25	78

## Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-(ENV)JAN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.001	LB179297.004	Aluminium, Al	µg/L	5	170	160	20	72
		Arsenic, As	µg/L	1	24	<1	20	119
		Barium, Ba	µg/L	1	39	18	20	104
		Cadmium, Cd	µg/L	0.1	19	0.7	20	89
		Chromium, Cr	µg/L	1	21	<1	20	105
		Cobalt, Co	µg/L	1	220	210	20	55 ☹
		Copper, Cu	µg/L	1	17	<1	20	81
		Lead, Pb	µg/L	1	18	<1	20	90
		Manganese, Mn	µg/L	1	19000	20000	20	-2681 ☹
		Zinc, Zn	µg/L	5	380	330	20	234 ☹

## TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-(ENV)JAN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.019	LB179318.023	TRH C10-C14	µg/L	50	880	<50	1200	73
		TRH C15-C28	µg/L	200	1000	<200	1200	84
		TRH C29-C36	µg/L	200	1200	<200	1200	103
		TRH C37-C40	µg/L	200	<200	<200	-	-
		TRH C10-C36	µg/L	450	3100	<450	-	-
		TRH C10-C40	µg/L	650	3100	<650	-	-
		TRH F Bands						
		TRH >C10-C16	µg/L	60	950	<60	1200	79
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	950	<60	-	-
		TRH >C16-C34 (F3)	µg/L	500	1100	<500	1200	89
		TRH >C34-C40 (F4)	µg/L	500	730	<500	600	122

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## VOCs in Water

Method: ME-(AU)-(ENV)AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604.001	LB179415.025	Monocyclic Aromatic	Benzene	µg/L	0.5	51	<0.5	45.45	112
			Toluene	µg/L	0.5	53	<0.5	45.45	117
			Ethylbenzene	µg/L	0.5	54	<0.5	45.45	118
			m/p-xylene	µg/L	1	120	<1	90.9	128
			o-xylene	µg/L	0.5	54	<0.5	45.45	120
		Polycyclic Surrogates	Naphthalene	µg/L	0.5	58	<0.5	-	-
			Dibromofluoromethane (Surrogate)	µg/L	-	5.4	5.6	-	108
			α4-1,2-dichloroethane (Surrogate)	µg/L	-	5.4	6.0	-	107
			α8-toluene (Surrogate)	µg/L	-	5.0	5.1	-	99
			Bromofluorobenzene (Surrogate)	µg/L	-	5.5	4.7	-	110

## Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-(ENV)AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE195604.001	LB179415.025	TRH C6-C10	µg/L	50	820	<50	946.63	86	
		TRH C6-C9	µg/L	40	880	<40	818.71	107	
		Surrogates	Dibromofluoromethane (Surrogate)	µg/L	-	5.4	5.6	-	108
			c4-1,2-dichloroethane (Surrogate)	µg/L	-	5.4	6.0	-	107
			c8-toluene (Surrogate)	µg/L	-	5.0	5.1	-	99
			Bromofluorobenzene (Surrogate)	µg/L	-	5.5	4.7	-	110
		VPH F	Benzene (F0)	µg/L	0.5	51	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	490	<50	639.67	77

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: [https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022\\_QA\\_QC\\_Plan.pdf](https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf)

- \* NATA accreditation does not cover the performance of this service .
  - \*\* Indicative data, theoretical holding time exceeded.
  - Sample not analysed for this analyte.
  - IS Insufficient sample for analysis.
  - LNR Sample listed, but not received.
  - LOR Limit of reporting.
  - QFH QC result is above the upper tolerance.
  - QFL QC result is below the lower tolerance.
- 
- ① At least 2 of 3 surrogates are within acceptance criteria.
  - ② RPD failed acceptance criteria due to sample heterogeneity.
  - ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
  - ④ Recovery failed acceptance criteria due to matrix interference.
  - ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
  - ⑥ LOR was raised due to sample matrix interference.
  - ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
  - ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
  - ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
  - ⑩ LOR was raised due to high conductivity of the sample (required dilution).
  - † Refer to Analytical Report comments for further information.

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This test report shall not be reproduced, except in full.

## Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 2 / 58 Comport Street, Portsmith QLD 4870 Ph: +61 7 4035 5111 Fax: +61 2 4035 5122 Email: [shey.goddard@sgs.com](mailto:shey.goddard@sgs.com)

Received Date: 23/07/19 Received By: 85  
 Logged-in Date: \_\_\_\_\_ Time of Receipt: \_\_\_\_\_

Cooling Method: ☐ Ice ☐ Icepack ☒ None

Cooler Sealed: ☐ Yes ☐ No ☒ N/A

Samples intact: ☒ Yes ☐ No

Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:	Name:	Paul Wood		
	Company:	Future-Plus Environmental		
	Address:	PO Box 1250 Buddina, Q 4575		
	Email:	kameep@future-plus.com.au		
	Phone:	(07) 5357 9169	Fax:	(07) 3102 9399

Quote #: \_\_\_\_\_

Attached Parameter List: ☐ Yes ☐ No

**Replacement Sample Containers Required:**

Results Required By:

☐ Yes      ☐ No

### Urgent TA requires lab approval

**Notes:**

### Urgent TA requires lab approval

Client information	PO No.: 1250, Buddina Q 4575	Project No.: 4599-190722
--------------------	------------------------------	--------------------------

Company Name:	Future-Plus Environmental
---------------	---------------------------

Contact Name:	Kaine Pritchard
---------------	-----------------

Address: 4/40 Technology Dr. WARANA QLD 4575

Phone Number: (07) 5357 9169 Paul Mob. 0404 493 811, Kaine Mob. 0401 555 642

After Hours Phone Number:

Fax Number: (07) 5357 9169

Email:	kainep@future-plus.com.au	jonoh@future-plus.com.au	michaelb@future-plus.com.au
--------	---------------------------	--------------------------	-----------------------------

**Note:** Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check)

Email 

Exy ☐

### SAMPLE INFORMATION

[illegible]

Sampled By: Jono Hooper & Grant Webster

Date: 22/07/2019

Relinquished By: Jono Hooper &amp; Grant Webster

Date: 22/07/2019 Time:

SGS EHS Alexandria Laboratory



**SE195604 COC**  
Received: 23-Jul-2019

## Yin, Emily (Sydney)

---

**From:** Crawford, Huong (Sydney)  
**Sent:** Wednesday, 24 July 2019 1:18 PM  
**To:** Jono Hooper  
**Cc:** Michael Baynes; AU.SampleReceipt.Sydney (Sydney)  
**Subject:** RE: SE195604 - 4599-190722

Hi Jono,

For SE195604/014- SPC-GW10S - Only 125ml P/B and 2x40ml HCl Vials received.

The 40 mL vials will be for BTEX.

The other 125 mL can be used for Anions/ Nitrite/Ammonia/TOC/Cr6+/Metals, we don't have enough sample for QCs, T- phenols (50 mL), Alkalinity (50 mL) and semivolatiles OP/OC/PAH...(100 mL amber bottle).

Please let us know if you would like to proceed as above, thanks.

Kind Regards,

Huong Crawford  
**Environment, Health & Safety**  
Production Manager

SGS Australia Pty Ltd  
Unit 16, 33 Maddox Street  
Alexandria NSW 2015  
Phone: +61 (0)2 8594 0403  
Fax: + 61 (0)2 8594 0499  
E-mail: [Huong.Crawford@sgs.com](mailto:Huong.Crawford@sgs.com)  
Web: [www.au.sgs.com](http://www.au.sgs.com)

View Your Results Online: [au.sgs.com](http://au.sgs.com)

**From:** Jono Hooper <[jonoh@future-plus.com.au](mailto:jonoh@future-plus.com.au)>  
**Sent:** Wednesday, 24 July 2019 9:18 AM  
**To:** Yin, Emily (Sydney) <[Emily.Yin@sgs.com](mailto:Emily.Yin@sgs.com)>  
**Cc:** Michael Baynes <[michaelb@future-plus.com.au](mailto:michaelb@future-plus.com.au)>  
**Subject:** RE: SE195604 - 4599-190722

Hi Emily,

There was insufficient sample available during field work.

Are you able to advise which analysis can be undertaken from the 125ml P/B bottle that allows us to get the most value out of the sample volume we have?

## Yin, Emily (Sydney)

---


**From:** Jono Hooper <jonoh@future-plus.com.au>  
**Sent:** Wednesday, 24 July 2019 9:18 AM  
**To:** Yin, Emily (Sydney)  
**Cc:** Michael Baynes  
**Subject:** RE: SE195604 - 4599-190722

Hi Emily,

There was insufficient sample available during field work.  
Are you able to advise which analysis can be undertaken from the 125ml P/B bottle that allows us to get the most value out of the sample volume we have?

Kind Regards

**Jono Hooper | Ecologist / Environmental Scientist | BSci(Env) / BSci(Hons)**

E. [jonoh@future-plus.com.au](mailto:jonoh@future-plus.com.au) | P. 07 5357 9169 | F. 07 3102 9399 | 



Environmental Management, Monitoring, Planning & Compliance

**SUNSHINE COAST & BRISBANE**



Wallum Sedgefrog  
(*Litoria alongborensis*)

Please consider the  
environment before  
printing this e-mail.

**From:** Yin, Emily (Sydney) <Emily.Yin@sgs.com>  
**Sent:** Tuesday, 23 July 2019 5:52 PM  
**To:** Kaine Pritchard <kainep@future-plus.com.au>; Jono Hooper <jonoh@future-plus.com.au>; Michael Baynes <michaelb@future-plus.com.au>  
**Subject:** SE195604 - 4599-190722

Dear All,

SPC-GW10S – Only 125ml P/B and 2x40ml HCl Vials received.  
Insufficient sample to do all analysis.  
Please advise which analysis are more important.  
Thank You.

Regards,

Emily Yin  
**Environment, Health & Safety**  
Sample Receipt

SGS Australia Pty Ltd  
Unit 16, 33 Maddox Street  
Alexandria NSW 2015



## SAMPLE RECEIPT ADVICE

SE195604

### CLIENT DETAILS

Contact Kaine Pritchard  
Client FUTURE-PLUS ENVIRONMENTAL  
Address PO BOX 1250  
BUDDINA QLD 4575

Telephone 07 5450 2688 / 0404 493 811  
Facsimile 07 5450 2686  
Email kainep@future-plus.com.au

Project **4599-190722**  
Order Number **1250, Buddina Q 4575**  
Samples 20

### LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

Samples Received Tue 23/7/2019  
Report Due Tue 30/7/2019  
SGS Reference **SE195604**

### SUBMISSION DETAILS

This is to confirm that 20 samples were received on Tuesday 23/7/2019. Results are expected to be ready by COB Tuesday 30/7/2019. Please quote SGS reference SE195604 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice
Samples received in correct containers	Yes	Sample counts by matrix	20 Water
Date documentation received	23/7/2019	Type of documentation received	COC
Number of eskies/boxes received		Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.4°C
Sufficient sample for analysis	Yes	Turnaround time requested	Standard

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

### COMMENTS

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.



## SAMPLE RECEIPT ADVICE

SE195604

### CLIENT DETAILS

Client FUTURE-PLUS ENVIRONMENTAL

Project 4599-190722

### SUMMARY OF ANALYSIS

No.	Sample ID	Anions by Ion Chromatography in Water	OC Pesticides in Water	OP Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Total Phenolics in Water	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	SPC-GW1	4	28	13	22	1	10	12	8
002	SPC-GW1S	4	28	13	22	1	10	12	8
003	SPC-GW2	4	28	13	22	1	10	12	8
004	SPC-GW3	4	28	13	22	1	10	12	8
005	SPC-GW4	4	28	13	22	1	10	12	8
006	SPC-GW5	4	28	13	22	1	10	12	8
007	SPC-GW5A	4	28	13	22	1	10	12	8
008	SPC-GW6	4	28	13	22	1	10	12	8
009	SPC-GW6S	4	28	13	22	1	10	12	8
010	SPC-GW7	4	28	13	22	1	10	12	8
011	SPC-GW8D	4	28	13	22	1	10	12	8
012	SPC-GW8S	4	28	13	22	1	10	12	8
013	SPC-GW9S	4	28	13	22	1	10	12	8
014	SPC-GW10S	4	-	-	-	-	-	12	8
015	SPC-GW11S	4	28	13	22	1	10	12	8
016	SPC-GWQ	4	28	13	22	1	10	12	8
017	SPC-B	4	28	13	22	1	10	12	8
018	SPC-SW-UP	4	28	13	22	1	10	12	8
019	SPC-SW-MID	4	28	13	22	1	10	12	8
020	SPC-SW-DN	4	28	13	22	1	10	12	8

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

## CLIENT DETAILS

Client FUTURE-PLUS ENVIRONMENTAL

Project 4599-190722

## SUMMARY OF ANALYSIS

No.	Sample ID	Alkalinity	Ammonia Nitrogen by Discrete Analyser	Forms of Carbon	Hexavalent Chromium in water by Discrete Analyser	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	Nitrite in Water	Total and Volatile Suspended Solids (TSS /	Trace Metals (Dissolved) in Water by ICPMS
001	SPC-GW1	1	1	1	1	1	4	1	-	10
002	SPC-GW1S	1	1	1	1	1	4	1	-	10
003	SPC-GW2	1	1	1	1	1	4	1	-	10
004	SPC-GW3	1	1	1	1	1	4	1	-	10
005	SPC-GW4	1	1	1	1	1	4	1	-	10
006	SPC-GW5	1	1	1	1	1	4	1	-	10
007	SPC-GW5A	1	1	1	1	1	4	1	-	10
008	SPC-GW6	1	1	1	1	1	4	1	-	10
009	SPC-GW6S	1	1	1	1	1	4	1	-	10
010	SPC-GW7	1	1	1	1	1	4	1	-	10
011	SPC-GW8D	1	1	1	1	1	4	1	-	10
012	SPC-GW8S	1	1	1	1	1	4	1	-	10
013	SPC-GW9S	1	1	1	1	1	4	1	-	10
014	SPC-GW10S	-	1	1	1	1	4	1	-	10
015	SPC-GW11S	1	1	1	1	1	4	1	-	10
016	SPC-GWQ	1	1	1	1	1	4	1	-	10
017	SPC-B	1	1	1	1	1	4	1	-	10
018	SPC-SW-UP	1	1	1	1	1	4	1	1	10
019	SPC-SW-MID	1	1	1	1	1	4	1	1	10
020	SPC-SW-DN	1	1	1	1	1	4	1	1	10

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

## CLIENT DETAILS

Contact Kaine Pritchard  
Client FUTURE-PLUS ENVIRONMENTAL  
Address PO BOX 1250  
BUDDINA QLD 4575

Telephone 07 5450 2688 / 0404 493 811  
Facsimile 07 5450 2686  
Email kaine@future-plus.com.au

Project **4599-190722 - Add**  
Order Number **1250, Buddina Q 4575**  
Samples 20

## LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

SGS Reference **SE195604A R0**  
Date Received 31 Jul 2019  
Date Reported 05 Aug 2019

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

## SIGNATORIES



Dong Liang  
Metals/Inorganics Team Leader



ANALYTICAL REPORT

SE195604A R0

		Sample Number	SE195604A.001	SE195604A.002	SE195604A.003	SE195604A.004
		Sample Matrix	Water	Water	Water	Water
		Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
		Sample Name	SPC-GW1	SPC-GW1S	SPC-GW2	SPC-GW3
Parameter		Units	LOR			

Total Phosphorus by Kjeldahl Digestion DA in Water    Method: AN279/AN293(Sydney only)    Tested: 2/8/2019

Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	-	-	-	-
--	------	------	---	---	---	---



ANALYTICAL REPORT

SE195604A R0

Parameter	Sample Number	SE195604A.005	SE195604A.006	SE195604A.007	SE195604A.008
	Sample Matrix	Water	Water	Water	Water
	Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name	SPC-GW4	SPC-GW5	SPC-GW5A	SPC-GW6
	Units	LOR			

Total Phosphorus by Kjeldahl Digestion DA in Water    Method: AN279/AN293(Sydney only)    Tested: 2/8/2019

Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	-	-	-	-
--	------	------	---	---	---	---



ANALYTICAL REPORT

SE195604A R0

Parameter	Sample Number	SE195604A.009	SE195604A.010	SE195604A.011	SE195604A.012
	Sample Matrix	Water	Water	Water	Water
	Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name	SPC-GW6S	SPC-GW7	SPC-GW8D	SPC-GW8S
	Units	LOR			

Total Phosphorus by Kjeldahl Digestion DA in Water    Method: AN279/AN293(Sydney only)    Tested: 2/8/2019

Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	-	-	-	-
--	------	------	---	---	---	---



ANALYTICAL REPORT

SE195604A R0

Parameter	Sample Number	SE195604A.013	SE195604A.014	SE195604A.015	SE195604A.016
	Sample Matrix	Water	Water	Water	Water
	Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name	SPC-GW9S	SPC-GW10S	SPC-GW11S	SPC-GWQ
	Units	LOR			

Total Phosphorus by Kjeldahl Digestion DA in Water    Method: AN279/AN293(Sydney only)    Tested: 2/8/2019

Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	-	-	-	-
--	------	------	---	---	---	---



ANALYTICAL REPORT

SE195604A R0

Parameter	Sample Number	SE195604A.017	SE195604A.018	SE195604A.019	SE195604A.020
	Sample Matrix	Water	Water	Water	Water
	Sample Date	22 Jul 2019	22 Jul 2019	22 Jul 2019	22 Jul 2019
	Sample Name	SPC-B	SPC-SW-UP	SPC-SW-MID	SPC-SW-DN
	Units	LOR			

Total Phosphorus by Kjeldahl Digestion DA in Water    Method: AN279/AN293(Sydney only)    Tested: 2/8/2019

Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	-	0.21	0.11	0.14
--	------	------	---	------	------	------

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

**Total Phosphorus by Kjeldahl Digestion DA in Water    Method: ME-(AU)-[ENV]AN279/AN293(Sydney only)**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total Phosphorus (Kjeldahl Digestion) as P	LB180010	mg/L	0.02	<0.02	1%	104%	104%

### METHOD

AN279/AN293(Sydney)

### METHODOLOGY SUMMARY

The sample is digested with Sulphuric acid, K<sub>2</sub>SO<sub>4</sub> and CuSO<sub>4</sub>. All forms of phosphorus are converted into orthophosphate. The digest is cooled and placed on the discrete analyser for colorimetric analysis.

### FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
**	Indicative data, theoretical holding time exceeded.	QFL	QC result is below the lower tolerance
		-	The sample was not analysed for this analyte
		NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.  
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: [www.sgs.com.au/pv.sgsvr/en-gb/environment](http://www.sgs.com.au/pv.sgsvr/en-gb/environment).

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This report must not be reproduced, except in full.



## STATEMENT OF QA/QC PERFORMANCE

SE195604A R0

### CLIENT DETAILS

Contact Kaine Pritchard  
Client FUTURE-PLUS ENVIRONMENTAL  
Address PO BOX 1250  
BUDDINA QLD 4575

Telephone 07 5450 2688 / 0404 493 811  
Facsimile 07 5450 2686  
Email kainep@future-plus.com.au

Project 4599-190722 - Add  
Order Number 1250, Buddina Q 4575  
Samples 20

### LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

SGS Reference SE195604A R0  
Date Received 31 Jul 2019  
Date Reported 05 Aug 2019

### COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.  
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.  
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

### SAMPLE SUMMARY



## HOLDING TIME SUMMARY

SE195604A R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-ENVJAN278/AN293(Sydney only)

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SPC-SW-UP	SE195604A.018	LB180010	22 Jul 2019	31 Jul 2019	19 Aug 2019	02 Aug 2019	19 Aug 2019	02 Aug 2019
SPC-SW-MID	SE195604A.019	LB180010	22 Jul 2019	31 Jul 2019	19 Aug 2019	02 Aug 2019	19 Aug 2019	02 Aug 2019
SPC-SW-DN	SE195604A.020	LB180010	22 Jul 2019	31 Jul 2019	19 Aug 2019	02 Aug 2019	19 Aug 2019	02 Aug 2019

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.



Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293(Sydney only)

Sample Number	Parameter	Units	LOR	Result
LB180010.001	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02



## DUPLICATES

SE195604A R0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

### Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293(Sydney only)

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE195953.004	LB180010.025	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	23.87082	23.68472	15	1



Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-(ENV)AN279/AN293(Sydney only)

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB180010.002	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.0	1	80 - 120	104



MATRIX SPIKES

SE195604A R0

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-(ENV)QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-(ENV)AN279/AN293(Sydney only)

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE195604A.02	LB180010.026	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.2	0.14	1	104



## MATRIX SPIKE DUPLICATES

SE195604A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: [https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022\\_QA\\_QC\\_Plan.pdf](https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf)

- \* NATA accreditation does not cover the performance of this service .
  - \*\* Indicative data, theoretical holding time exceeded.
  - Sample not analysed for this analyte.
  - IS Insufficient sample for analysis.
  - LNR Sample listed, but not received.
  - LOR Limit of reporting.
  - QFH QC result is above the upper tolerance.
  - QFL QC result is below the lower tolerance.
- 
- ① At least 2 of 3 surrogates are within acceptance criteria.
  - ② RPD failed acceptance criteria due to sample heterogeneity.
  - ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
  - ④ Recovery failed acceptance criteria due to matrix interference.
  - ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
  - ⑥ LOR was raised due to sample matrix interference.
  - ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
  - ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
  - ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
  - ⑩ LOR was raised due to high conductivity of the sample (required dilution).
  - † Refer to Analytical Report comments for further information.

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This test report shall not be reproduced, except in full.

## Yin, Emily (Sydney)

---

**From:** Miguel Barritt, Elsa (Sydney)  
**Sent:** Wednesday, 31 July 2019 12:49 PM  
**To:** AU.SampleReceipt.Sydney (Sydney)  
**Subject:** FW: [EXTERNAL] RE: Report Job SE195604, your reference 4599-190722, order number 1250, Buddina Q 4575

FYA - Log in as an "A" job .. STD TAT

Thanks

Kind Regards

Elsa Miguel Barritt  
Environment, Health & Safety  
Customer Service Representative

SGS Australia Pty Ltd  
Unit 16, 33 Maddox Street  
Alexandria, NSW, 2015

Phone: +61 (0)2 8594 0400  
Direct: +61 (0)2 8594 0455  
Fax: +61 (0)2 8594 0499  
E-mail: Elsa.MiguelBarritt@sgs.com  
Web: [www.au.sgs.com](http://www.au.sgs.com)

SGS EHS Alexandria Laboratory



**SE195604A COC**  
Received: 31-Jul-2019

-----Original Message-----

From: Jono Hooper <jonoh@future-plus.com.au>  
Sent: Wednesday, 31 July 2019 12:23 PM  
To: Miguel Barritt, Elsa (Sydney) <Elsa.MiguelBarritt@sgs.com>  
Subject: [EXTERNAL] RE: Report Job SE195604, your reference 4599-190722, order number 1250, Buddina Q 4575

\*\*\* WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. \*\*\*

Hi Elsa,

I realised total phosphorus was not included on the COC. Can this please be run for SPC UP, MID and DN samples. <sup>18 19 20</sup>

Thanks.

Kind Regards  
Jono Hooper | Ecologist / Environmental Scientist | BSci(Env) / BSci(Hons)

E. jonoh@future-plus.com.au | P. 07 5357 9169 | F. 07 3102 9399 |

Environmental Management, Monitoring, Planning & Compliance

SUNSHINE COAST & BRISBANE



## SAMPLE RECEIPT ADVICE

SE195604A

### CLIENT DETAILS

Contact Kaine Pritchard  
Client FUTURE-PLUS ENVIRONMENTAL  
Address PO BOX 1250  
BUDDINA QLD 4575

Telephone 07 5450 2688 / 0404 493 811  
Facsimile 07 5450 2686  
Email kainep@future-plus.com.au

Project **4599-190722 - Add**  
Order Number **1250, Buddina Q 4575**  
Samples 20

### LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

Samples Received Wed 31/7/2019  
Report Due Wed 7/8/2019  
SGS Reference **SE195604A**

### SUBMISSION DETAILS

This is to confirm that 20 samples were received on Wednesday 31/7/2019. Results are expected to be ready by COB Wednesday 7/8/2019. Please quote SGS reference SE195604A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice
Samples received in correct containers	Yes	Sample counts by matrix	3 Water
Date documentation received	31/7/2019	Type of documentation received	Email
Number of eskies/boxes received		Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	2.4°C
Sufficient sample for analysis	Yes	Turnaround time requested	Standard

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

### COMMENTS

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.



SAMPLE RECEIPT ADVICE

SE195604A

CLIENT DETAILS

Client FUTURE-PLUS ENVIRONMENTAL

Project 4599-190722 - Add

SUMMARY OF ANALYSIS

No.	Sample ID	Total Phosphorus by Kjeldahl Digestion DA in
018	SPC-SW-UP	1
019	SPC-SW-MID	1
020	SPC-SW-DN	1

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.  
The numbers shown in the table indicate the number of results requested in each package.  
Please indicate as soon as possible should your request differ from these details .  
Testing as per this table shall commence immediately unless the client intervenes with a correction .



**New Gas & Groundwater Monitoring Well Locations (July 2019)**

Date: 8 June 2019

Reference: E2W\_306\_01.cdr

SALT PAN CREEK LANDFILL- New Wells 2019

Figure 1

## Canterbury Bankstown Council - Groundwater Data

Date	Analyte	Units	LOR	GW-1	GW-2	GW-3	GW-4	GW-5	GW-5A	GW-6	GW-7	MWseep*	
18/09/2018	Depth	m BTOC		2	3.2	3.35	1.65	0.6	3.55	4	3.65	3.8	
18/09/2018	pH	-		5.76	6.7	6.36	7.18	7.5	7.45	6.77	7.19	NA	
18/09/2018	Temperature	°C		24.5	23.5	23.3	23.4	21.9	24.5	24.4	23.5	NA	
18/09/2018	Electrical Conductivity	µS/cm	-	7,000	8,570	17,610	1,705	6,590	19,090	34,800	8,840	NA	
18/09/2018	Redox	mV	-	95	16	40	107	-143	-152	-74	-93	NA	
18/09/2018	Bicarbonate Alkalinity as CaCO3	mg/L		5	80	260	340	2400	790	1100	640	NA	
18/09/2018	Chloride	mg/L	0.05	2100	2800	6200	340	800	9600	14000	2900	NA	
18/09/2018	Sulfate as SO4	mg/L		1	590	570	620	150	23	860	1000	160	NA
18/09/2018	Ammonia as N	mg/L	0.01	0.11	0.12	0.12	<0.01	400	15	7.2	3.1	NA	
18/09/2018	Total Organic Carbon	mg/L	0.2	24	8.3	3	13	180	37	40	38	NA	
18/09/2018	Calcium	mg/L	0.1	12	43	110	76	38	290	340	150	NA	
18/09/2018	Magnesium	mg/L	0.1	87	170	500	40	3	660	850	150	NA	
18/09/2018	Sodium	mg/L	0.5	1400	1600	3100	240	530	5400	7000	1700	NA	
18/09/2018	Potassium	mg/L	0.2	12	22	57	4	210	300	380	110	NA	
18/09/2018	Benzene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	8.6 <0.5	<0.5	<0.5	<0.5	NA	
18/09/2018	Toluene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	0.5 <0.5	<0.5	<0.5	<0.5	NA	
18/09/2018	Ethyl benzene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	6.5 <0.5	<0.5	<0.5	<0.5	NA	
18/09/2018	Total Xylenes	µg/L	1.5 <1.5	<1.5	<1.5	<1.5	<1.5	26 <1.5	<1.5	<1.5	<1.5	NA	
18/09/2018	Naphthalene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	14 <0.5	<0.5	<0.5	<0.5	NA	
18/09/2018	BTEXN	µg/L		3 <3	<3	<3	<3	42 <3	<3	<3	<3	NA	
18/09/2018	C6-C10	µg/L		50 <50	<50	<50	<50	150 <50	<50	<50	<50	NA	
18/09/2018	C6-C10 minus BTEXN-F1	µg/L		50 <50	<50	<50	<50	110 <50	<50	<50	<50	NA	
18/09/2018	C10-C16 (F2)	µg/L		60 <60	<60	<60	<60	400 <60	<60	<60	<60	NA	
18/09/2018	C16-C34	µg/L		500 <500	<500	<500	<500	<500	<500	<500	<500	NA	
18/09/2018	C34-C40	µg/L		500 <500	<500	<500	<500	<500	<500	<500	<500	NA	
18/09/2018	C10-C40	µg/L		650 <650	<650	<650	<650	730 <650	<650	<650	<650	NA	
18/09/2018	CH4	(%)	pre-purge	0	0	0	0	0	0	>5			
18/09/2018	CO2	(% v/v)	pre-purge	0.17	0.1	0.17	0.03	0	0	1.67			
18/09/2018	O2	(%)	pre-purge	20.9	20.9	20.7	20.9	20.9	20.9	18.7			
18/09/2018	H2S	(ppm)	pre-purge	0	0	0	0	0	0	0			
20/03/2018	Depth	m BTOC		1.8	2.29	2.8	2.26	0.8	3.8	3.87	3.5	3	
20/03/2018	pH	-		4.89	6.57	6.16	6.74	7.53	7.27	6.82	7.11	6.74	
20/03/2018	Temperature	°C		21.1	20.8	21.2	21.6	21.8	20.8	19.7	19.2	20.4	
20/03/2018	Electrical Conductivity	µS/cm	-	7530	10980	19660	3750	12850	>30000	>30000	16920	22560	
20/03/2018	Redox	mV	-	192	13	106	120	-149	-98	-77	-55	-62	
20/03/2018	Bicarbonate Alkalinity as CaCO3	mg/L		5	66	210	360	3700	800	1200	700	NA	
20/03/2018	Chloride	mg/L	0.05	1800	2700	5900	880	1300	11000	14000	5100	NA	
20/03/2018	Sulfate as SO4	mg/L		1	660	620	620	130	5	1200	1100	190	NA
20/03/2018	Ammonia as N	mg/L	0.01	0.14	0.21	0.08	0.08	15	7.3	7.3	2.2	NA	
20/03/2018	Total Organic Carbon	mg/L	0.2	14	9.5	3.5	20	380	48	47	35	19	
20/03/2018	Calcium	mg/L	0.1	8.1	26	97	110	22	380	330	200	130	
20/03/2018	Magnesium	mg/L	0.1	72	160	470	69	36	660	860	230	530	
20/03/2018	Sodium	mg/L	0.5	1100	1600	2900	410	980	5400	4700	2400	3200	
20/03/2018	Potassium	mg/L	0.2	12	24	60	9.1	340	340	360	140	36	
20/03/2018	Benzene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	15 <0.5	<0.5	<0.5	<0.5	<0.5	
20/03/2018	Toluene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	0.6 <0.5	<0.5	<0.5	<0.5	<0.5	
20/03/2018	Ethyl benzene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	2.2 <0.5	<0.5	<0.5	<0.5	<0.5	
20/03/2018	Total Xylenes	µg/L	1.5 <1.5	<1.5	<1.5	<1.5	<1.5	27 <1.5	<1.5	<1.5	<1.5	<1.5	
20/03/2018	Naphthalene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
20/03/2018	BTEXN	µg/L		3 <3	<3	<3	<3	45 <3	<3	<3	<3	<3	
20/03/2018	C6-C10	µg/L		50 <50	<50	<50	<50	700 <50	<50	<50	<50	<50	
20/03/2018	C6-C10 minus BTEXN-F1	µg/L		50 <50	<50	<50	<50	650 <50	<50	<50	<50	<50	
20/03/2018	C10-C16 (F2)	µg/L		60 <60	<60	<60	<60	1100 <60	<60	<60	<60	<60	
20/03/2018	C16-C34	µg/L		500 <500	<500	<500	<500	1700 <500	<500	<500	<500	<500	
20/03/2018	C34-C40	µg/L		500 <500	<500	<500	<500	<500	<500	<500	<500	<500	
20/03/2018	C10-C40	µg/L		650 <650	<650	<650	<650	4000 <650	<650	<650	<650	<650	
20/03/2018	CH4	(%)	pre-purge	0	0	0	0	0	0	>5	0	0	
20/03/2018	CO2	(% v/v)	pre-purge	0.02	0.46	2.86	1.16	0.22	0.28	1.76	0.04	0.1	
20/03/2018	O2	(%)	pre-purge	20.9	20.9	18.6	19.9	20.9	20.3	18.6	20.9	20.9	
20/03/2018	H2S	(ppm)	pre-purge	0	0	0	0	0	0	0	0	0	
6/12/2017	Depth	m BTOC		1.89	2.26	2.14	1.89	0.63	4.17	3.98	3.23	2.51	
6/12/2017	pH	-		5.38	6.11	6.32	6.71	7.72	7.38	7.11	7.18	6.45	
6/12/2017	Temperature	°C		19.9	18.8	19.1	22.3	21	19.7	19.4	18.8	20.1	
6/12/2017	Electrical Conductivity	µS/cm		6,150	8,910	15,780	2,880	9,750	>20000	>20000	9,940	17,640	
6/12/2017	Redox	mV		204	86	44	61	-33	-99	-82	40	-131	
6/12/2017	Bicarbonate Alkalinity as CaCO3	mg/L	5	52	120	340	190	3400	650	1000	590	170	
6/12/2017	Chloride	mg/L	0.05	1900	2800	5400	760	1300	15000	14000	3300	6600	
6/12/2017	Sulfate as SO4	mg/L	1	720	760	650	80	<5	1500	1200	140	1000	
6/12/2017	Ammonia as N	mg/L	0.01	0.31	0.26	<0.01	0.06	620	6.1	6.4	0.6	4.7	
6/12/2017	Total Organic Carbon	mg/L	0.2	9.8	5.3	4	9.4	250	15	47	54	9.4	
6/12/2017	Calcium	mg/L	0.1	6.9	14	82	27	350	320	230	120		
6/12/2017	Magnesium	mg/L	0.1	68	140	420	56	50	840	820	160	490	
6/12/2017	Sodium	mg/L	0.5	1300	1800	2700	360	980	6700	6700	1600	3100	
6/12/2017	Potassium	mg/L	0.2	11	23	57	9.3	420	380	350	110	38	
6/12/2017	Benzene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	13 <0.5	<0.5	<0.5	<0.5	<0.5	
6/12/2017	Toluene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	0.7 <0.5	<0.5	<0.5	<0.5	<0.5	
6/12/2017	Ethyl benzene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	7.2 <0.5	<0.5	<0.5	<0.5	<0.5	
6/12/2017	Total Xylenes	µg/L	1.5 <1.5	<1.5	<1.5	<1.5	<1.5	50 <1.5	<1.5	<1.5	<1.5	<1.5	
6/12/2017	Naphthalene	µg/L	0.5 <0.5	<0.5	<0.5	<0.5	<0.5	51 <0.5	<0.5	<0.5	<0.5	<0.5	
6/12/2017	BTEXN	µg/L		3 <3	<3	<3	<3	71 <3	<3	<3	<3	<3	
6/12/2017	C6-C10	µg/L		50 <50	<50	<50	<50	220 <50	<50	<50	<50	<50	
6/12/2017	C6-C10 minus BTEXN-F1	µg/L		50 <50	<50	<50	<50	150 <50	<50	<50	<50	<50	
6/12/2017	C10-C16 (F2)	µg/L		60 <60	<60	<60	<60	1100 <60	<60	<60	<60	<60	
6/12/2017	C16-C34	µg/L		500 <500	<500	<500	<500	1200 <500	<500	<500	<500	<500	
6/12/2017	C34-C40	µg/L		500 <500	<500	<500	<500	<500	<500	<500	<500	<500	
6/12/2017	C10-C40	µg/L		650 <650	<650	<650	<650	2400 <650	<650	<650	<650	<650	
6/12/2017	CH4	(%)	pre-purge	0	0	0	0.01	0	1.25	<5	0	0	
6/12/2017	CO2	(% v/v)	pre-purge	0.08	0.36	0.48	0.52	4.22	0.18	2.82	0.02	1.28	
6/12/2017	O2	(%)	pre-purge	20.9	20.9	20.9	20.9	15.5	20.9	18.9	20.9	19.8	
6/12/2017	H2S	(ppm)	pre-purge	0	0	0	0	0	0	0	0	0	
20/9/2017	Depth	m BTOC		1.9	2.45	2.25	1.8	0.62	4.05	4.2	3.42	2.2	
20/9/2017	pH	-		5.64	6.33	6.3	7.52	7.53	7.8	6.82	7.18	6.15	
20/9/2017	Temperature	°C		23.8	22.2	22.4	25.1	24.1	25.8	25.9	25.7	23.1	
20/9/2017	Electrical Conductivity	µS/cm		7,320	9,400	16,370	1,760	11,370	29,000	31,600	8,730	15,930	
20/9/2017	Redox	mV		159	75	109	199	-138	-95	-56	127	-43	
20/9/2017	Bicarbonate Alkalinity as CaCO3	mg/L	5	85	94	320	170	3600	710	880	600	140	
20/9/2017	Chloride	mg/L	0.05	2100	2600	5100	390	1300	10000	10000	2800	5100	
20/9/2017	Sulfate as SO4	mg/L	1	600	740	620	67	50	950	930	83	830	
20/9/2017	Ammonia as N	mg/L	0.01	0.14	0.17	0.25	0.1	670	20	5.4	2.1	4.2	
20/9/2017	Total Organic Carbon	mg/L	0.2	13	6.7	7.6	11						

Canterbury Bankstown Council - Groundwater Data

22/7/2019 pH	pH units	N/A	5.62	5.96	6.28	6.45	7.29	7.33	6.87	6.92
22/7/2019 Conductivity	µS/cm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22/7/2019 Total dissolved solids	ppm	N/A	4950	6260	11280	891	4180	10500	27500	11730
22/7/2019 Alkalinity (as calcium carbonate)	mg/L	5	76	140	360	200	2200	970	1200	770
22/7/2019 Aluminium	µg/L	5	160	320	8	7	26	<5	<5	5
22/7/2019 Arsenic	µg/L	1	<1	<1	<1	<1	3	1	<1	3
22/7/2019 Barium	µg/L	1	18	19	7	260	200	710	830	1100
22/7/2019 Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	8.4	<0.5	<0.5	<0.5
22/7/2019 Cadmium	µg/L	0.1	0.7	0.3	5.8	<0.1	<0.1	<0.1	<0.1	<0.1
22/7/2019 Calcium	mg/L	0.2	9.9	14	78	43	81	200	320	170
22/7/2019 Chloride	mg/L	1	1900	2500	4800	230	660	4500	13000	4700
22/7/2019 Chromium (hexavalent)	mg/L	0.004	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004
22/7/2019 Chromium (total)	mg/L	1	<1	<1	<1	<1	20	1	<1	3
22/7/2019 Cobalt	µg/L	1	210	160	81	11	27	6	6	5
22/7/2019 Copper	µg/L	1	<1	<1	<1	1	<1	<1	<1	<1
22/7/2019 Ethyl benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5
22/7/2019 Fluoride	mg/L	0.1	0.43	2.2	2	<0.1	<0.1	0.43	<2	1.2
22/7/2019 Lead	µg/L	1	<1	<1	<1	<1	2	<1	<1	<1
22/7/2019 Magnesium	mg/L	0.1	85	140	410	29	43	280	930	260
22/7/2019 Manganese	µg/L	1	20000	6400	3700	480	380	450	1000	1200
22/7/2019 Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
22/7/2019 Nitrate	mg/L	0.005	<0.05	<0.05	<0.1	0.043	<0.05	<0.1	<0.5	<0.1
22/7/2019 Nitrite	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
22/7/2019 Nitrogen (ammonia)	mg/L	0.01	0.07	0.09	0.09	1.4	350	21	7.9	7.5
22/7/2019 Organochlorine pesticides	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
22/7/2019 Organophosphate pesticides	µg/L	Various	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR
22/7/2019 Phosphorus (total)	mg/L	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22/7/2019 Potassium	mg/L	0.1	13	25	60	5.3	200	170	420	160
22/7/2019 Sodium	mg/L	0.5	1400	1700	2800	160	520	2700	7800	2700
22/7/2019 Sulphate	mg/L	1	580	550	580	56	11	210	910	100
22/7/2019 Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5
22/7/2019 Total Phenolics	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
22/7/2019 Total organic carbons	mg/L	0.2	17	5.2	3.9	15	190	89	46	160
22/7/2019 Total PAH(18)	µg/L	1	<1	<1	<1	<1	19	<1	<1	<1
22/7/2019 Total petroleum hydrocarbons										
22/7/2019 TRH C10-C14	µg/L	50	<50	<50	<50	<50	600	<50	<50	57
22/7/2019 TRH C15-C28	µg/L	200	<200	<200	<200	<200	1500	270	<200	420
22/7/2019 TRH C29-C36	µg/L	200	<200	<200	<200	<200	1000	<200	<200	440
22/7/2019 TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200	<200	<200	<200
22/7/2019 TRH >C10-C16	µg/L	60	<60	<60	<60	<60	730	<60	<60	74
22/7/2019 TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500	2000	<500	<500	680
22/7/2019 TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	530	<500	<500	<500
22/7/2019 TRH C10-C36	µg/L	450	<450	<450	<450	<450	3200	<450	<450	910
22/7/2019 TRH C10-C40	µg/L	650	<650	<650	<650	<650	3200	<650	<650	910
22/7/2019 TRH >C10-C16 - Naphthalene	µg/L	60	<60	<60	<60	<60	730	<60	<60	74
22/7/2019 Total suspended solids	mg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22/7/2019 Xylene	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	15	<1.5	<1.5	<1.5
22/7/2019 Zinc	µg/L	5	330	190	830	10	15	7	<5	<5

IS = Insufficient sample  
 DRY = Groundwater well was dry  
 N/A = Not Applicable  
 ID = Insufficient Data  
 BOLD = detection of analyte

# Canterbury Bankstown Council - Leachate Data

Analyte	Units	LOR	PUMP-3			
			20/09/2017	6/12/2017	20/03/2018	18/09/2018
pH	pH units	NA	7.47	7.67	7.77	7.59
Temperature	°C	NA	24.9	21.7	21.7	22.4
Electrical Conductivity	µS/cm	NA	10370	7420	6250	8070
Redox	mV	NA	-41	6	7	-7
Bicarbonate Alkalinity as CaCO3	mg/L	5	3100	2500	2000	2300
Chloride	mg/L	0.05	1400	910	510	1300
Sulfate as SO4	mg/L	1	50	<5	3.1	20
Ammonia as N	mg/L	0.01	630	440	320	370
Total Organic Carbon	mg/L	0.2	260	170	110	180
Calcium	mg/L	0.1	30	48	58	57
Magnesium	mg/L	0.1	39	62	59	51
Sodium	mg/L	0.1	1000	700	390	950
Potassium	mg/L	0.2	300	270	140	270
BTEXN	µg/L	3	29	5	<3	<3
C6-C10	µg/L	50	60	71	<50	<50
C6-C10 minus BTEXN-F1	µg/L	50	<50	67	<50	<50
C10-C16 F2	µg/L	60	1200	870	190	630
C16-C34	µg/L	500	1700	1100	<500	710
C34-C40	µg/L	500	<500	<500	<500	<500
C10-C40	µg/L	650	2900	2000	<650	1300

[illegible][illegible]