



# **MACH**Energy

**Mount Pleasant Operation**

A JOINT VENTURE WITH  
**JODA**  
Japan Coal Development Australia

## **Appendix L**

Land Contamination Assessment



MACH Energy Australia Pty Ltd

Land Contamination Assessment  
(Including Stage 1 Preliminary Investigation)

Mount Pleasant Optimisation Project  
Wybong Road Muswellbrook NSW

10 August 2020

55754/ 128,139 (Rev D)

JBS&G Australia Pty Ltd

MACH Energy Australia Pty Ltd

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(Including Stage 1 Preliminary Investigation)

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## Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AECs	Areas of Environmental Concern
AHD	Australian Height Datum
ASS	Acid Sulfate Soil
CLM Act	NSW Contaminated Land Management Act 1997
CHPP	Coal Handling and Preparation Plant
COPC	Contaminants of Potential Concern
DPIE	Department of Planning, Industry and Environment
DP&E	Department of Planning and Environment (now DPIE)
EIS	Environmental Impact Statement
EPA	Environment Protection Authority
EPL	Environment Protection Licence
ha	hectares
km	kilometres
media	Soil and rock, groundwater, surface water and soil vapour
m	metre
ML	Mining Lease
MOP	Mining Operations Plan and Rehabilitation Management Plan
MPO	Mount Pleasant Operation
Mtpa	Million tonnes per annum
NSW	New South Wales
OCPs	Organochlorine Pesticides
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
POEO Act	NSW Protection of the Environment Operations Act 1997
ROM	Run-of-mine
SEPP 55	State Environmental Planning Policy No 55 – Remediation of Land
SSD	State Significant Development
TRH	Total Recoverable Hydrocarbons
WMP	Water Management Plan

## Executive Summary

MACH Energy Australia Pty Ltd (MACH Energy) has engaged JBS&G Australia Pty Ltd (JBS&G) to undertake a Land Contamination Assessment for the Mount Pleasant Optimisation Project (the Project). The Project is located in the Upper Hunter Valley of New South Wales (NSW), north-west of Muswellbrook. The locations of the Project components are shown in **Figures 1 and 2**.

The purpose of this Land Contamination Assessment is to inform the assessment of the State Significant Development (SSD) application for the Project under the *Environmental Planning and Assessment Act 1979*. The Land Contamination Assessment has been prepared in accordance with clause 7 of the NSW *State Environmental Planning Policy No 55 – Remediation of Land* (SEPP 55) and *Managing Land Contamination Planning Guidelines SEPP 55 – Remediation of Land* (Department of Urban Affairs and Planning and Environment Protection Authority, 1998), and will form part of the Environmental Impact Statement (EIS) for the Project.

The objective of the Land Contamination Assessment is to address the matters referred to in clause 7 of SEPP 55, in particular:

- whether the land within the Project area is contaminated;
- if the land within the Project area is contaminated, whether the land is suitable in its contaminated state (or will be suitable, after remediation) for the Project; and
- if the land within the Project area requires remediation to be made suitable for the purpose for which the Project is proposed to be carried out, whether the land will be remediated before the land is used for that purpose.

The scope of works completed for the Land Contamination Assessment “Stage 1 – Preliminary Investigation” includes a desktop review of previous land uses and aerial photographs, and a site inspection to identify any potentially contaminated areas within the Study area (see **Figure 3**). The Study area encompasses the additional disturbance area associated with the Project (see **Figure 2**).

The following was concluded:

- There is a low potential for gross or widespread contamination within the Project area as a result of historical and/or current site uses;
- Based on the review of available information and site inspection, the Project area is suitable for the Project (i.e. no contamination has been identified which would make the land unsuitable for the Project);
- If the following areas in the Study area are disturbed and/or developed by the Project, an assessment and management (inclusive of a hazardous materials survey for former structures) of the identified contamination items will be required:
  - Tenanted residences and potential chemical storage within sheds (Locations 8 and 11 on **Figure 4**); and
  - Collapsed structures and residual stockpiles (Locations 4, 5 and 7 on **Figure 4**).

It is recommended that work, health, safety and environmental management controls (including protocols to manage unexpected finds) should be implemented during any future ground disturbance works.

It is recommended that a hazardous materials assessment is conducted on all building and building material prior to demolition and removal from site. If asbestos is identified within the structures or surface material on-site, a licensed removalist will be required.

For any future change of land use after the cessation of mining activities, remediation of the land may be required to render the land suitable for these uses.

# 1. Introduction

## 1.1 Introduction and Background

MACH Energy Australia Pty Ltd (MACH Energy) engaged JBS&G Australia Pty Ltd (JBS&G) to undertake a Land Contamination Assessment for the Mount Pleasant Optimisation Project (the Project). The Project is located in the Upper Hunter Valley of New South Wales (NSW), north-west of Muswellbrook.

MACH Energy commenced mining operations in the south-east of the approved extent of surface development for the Mount Pleasant Operation (MPO) in late 2017 (**Figures 1 and 2**). MACH Energy currently has approval to mine in the approved extent of surface development until December 2026 (following a Development Consent Modification to extend operations – Modification 3). A further Modification for the relocation of the Stage 1 rail spur and loop, and the Hunter River water supply pump station and pipeline (Modification 4), was also recently approved.

MACH Energy is preparing a State Significant Development (SSD) application for the Project, for which the following elements of the MPO would change, with more detail provided in **Section 2.0**:

- The operational workforce will be expanded (an average operational workforce of approximately 600 people, with a maximum of approximately 830 people);
- The mine life, which is currently approved until 2026, will be extended to approximately 2048;
- Expansion of the mine area to the south-west in Mining Lease (ML) 1645 and also a minor area to the north-east of the current mining lease (**Figure 2**); and
- Material increase in production rate: staged increase over the Project life in extraction, handling and processing of run-of-mine (ROM) coal up to 21 million tonnes per annum (Mtpa) from 10.5 Mtpa.

The purpose of this Land Contamination Assessment is to inform the assessment of the SSD application for the Project under the *Environmental Planning and Assessment Act 1979*. The Land Contamination Assessment has been prepared in general accordance with clause 7 of the NSW *State Environmental Planning Policy No 55 – Remediation of Land* (SEPP 55) and *Managing Land Contamination Planning Guidelines SEPP 55 – Remediation of Land* (Department of Urban Affairs and Planning and Environment Protection Authority, 1998<sup>1</sup>), and will form part of the Environmental Impact Statement (EIS) for the Project.

The areas referenced throughout this Land Contamination Assessment for the Project are:

- The approved MPO – the area encompassing the extent of existing and approved surface development.
- Study area – the area encompassing the additional disturbance area associated with the Project.
- Project area – the area encompassing the Project and the approved MPO (i.e. the Project Development Application Area).

## 1.2 Objectives

The objective of the Land Contamination Assessment is to address the matters referred to in clause 7 of SEPP 55, in particular:

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<sup>1</sup> Department of Urban Affairs and Planning and Environment Protection Authority (2018), *Managing Land Contamination Planning Guidelines SEPP 55 – Remediation of Land*, August 1998

- whether the land within the Project area is contaminated;
- if the land within the Project area is contaminated, whether the land is suitable in its contaminated state (or will be suitable, after remediation) for the Project; and
- if the land within the Project area requires remediation to be made suitable for the purpose for which the Project is proposed to be carried out, whether the land will be remediated before the land is used for that purpose.

This Land Contamination Assessment is a “preliminary investigation” within the meaning of SEPP 55.

### **1.3 Scope of Works**

The scope of works completed for the assessment of the Study area, as presented in **Figure 3**, comprised:

- Desktop review of previous land use, including aerial photographs of the Project area to identify any past and/or present potentially contaminating activities and areas;
- Site inspection to identify any potentially contaminated areas within the Project area;
- Identification of any potentially contaminated areas that require preliminary soil sampling and analysis, along with recommendations on the location and number of samples required; and
- Preparation of a Land Contamination Assessment, as a “Stage 1 – Preliminary Investigation”, including:
  - description of the existing environment and history of the Project area;
  - description of the assessment methodology (i.e. desktop reviews and site inspection);
  - assessment of potentially contaminated areas, including a preliminary conceptual site model; and
  - recommendation of assessment and management measures for potentially contaminated items.

## 2. Project Description

The Mount Pleasant Operation Development Consent DA 92/97 was granted on 22 December 1999. The MPO was also approved under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in 2012 (EPBC 2011/5795).

MACH Energy acquired the MPO from Coal and Allied Operations Pty Ltd on 4 August 2016. MACH Energy commenced construction activities at the MPO in November 2016 and commenced mining operations in October 2017, in accordance with Development Consent DA 92/97 and EPBC 2011/5795.

MACH Mount Pleasant Operations Pty Ltd manages the MPO as agent for and on behalf of the unincorporated Mount Pleasant Joint Venture between MACH Energy (95% owner) and J.C.D. Australia Pty Ltd (5% owner) (MACH)<sup>2</sup>.

The approved MPO includes the construction and operation of an open cut coal mine and associated rail spur, and product coal loading infrastructure located approximately three kilometres (km) north-west of Muswellbrook in the Upper Hunter Valley of NSW (**Figures 1 and 2**).

The mine is approved to produce up to 10.5 Mtpa of ROM coal. Up to approximately 9 trains per day of thermal coal products from the MPO are transported by rail to the Port of Newcastle for export or to domestic customers for use in electricity generation.

The Project would include the following development:

- Increased open cut coal extraction within Mount Pleasant Operation Mining Leases by mining of additional coal reserves, including lower coal seams in North Pit;
- Staged increase in extraction, handling and processing of ROM coal up to 21 Mtpa (i.e. progressive increase in ROM coal mining rate from 10.5 Mtpa over the Project life);
- Staged upgrades to the existing Coal Handling and Preparation Plant (CHPP) and coal handling infrastructure to facilitate the handling and processing of additional coal;
- Rail transport of up to approximately 17 Mtpa of product coal to domestic and export customers;
- Upgrades to workshops, electricity distribution and other ancillary infrastructure;
- Existing infrastructure relocations to facilitate mining extensions (e.g. local roads, powerlines and water pipelines);
- Construction and operation of new water management and water storage infrastructure in support of the mine;
- Additional reject dewatering facilities to allow co disposal of fine rejects with waste rock as part of ROM waste rock operations;
- Development of an integrated waste rock emplacement landform that incorporates geomorphic drainage design principles for hydrological stability, and varying topographic relief to be more natural in exterior appearance;

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<sup>2</sup> Throughout this report, MACH Mount Pleasant Operations Pty Ltd and the unincorporated Mount Pleasant Joint Venture will be referred to as MACH.

- Construction and operation of new ancillary infrastructure in support of mining;
- Extension to the time limit on mining operations to 22 December 2048;
- An average operational workforce of approximately 600 people, with a peak of approximately 830 people;
- Ongoing exploration activities; and
- Other associated infrastructure, plant, equipment and activities.

### 3. Preliminary Site Investigation – Mount Pleasant Optimisation Project

The Stage 1 – Preliminary Investigation for the Study area is documented in this section.

#### 3.1 Site Conditions and Surrounding Environment

##### 3.1.1 Site Identification

The location of the Project is shown in **Figures 1** and **2**. The Study area details are summarised in **Table 3.1** and described in detail in the following sections.

**Table 3.1: Summary of Study Area Details**

Address	Various
<b>Lot and DP</b>	Lots 1 and 2 of DP104563, Lots 1 and 2 of DP1081385, Lot 1 of DP1100374, Lot 36 of DP1108421, Lots 145 and 144 of DP1120266, Lots 1, 2, 5, 7 and 11 of DP112742, Lot 11 of DP1051153, Lot 35 of DP1076510, Lot 1 of DP1080962, Lot 1 of DP114090, Lot 100 of DP1177385, Lots 3, 7 and 10 of DP1199733, Lot 90 of DP1215947, Lot A of DP174071, Lot 14, Section 8 of DP2770, Lot 1 of DP312392, Lot 132 of DP558246, Lot 2 of DP634490, Lot 12 of DP659924, Lot 94 of DP665393, Lot 3 of DP791576, Lots 2, 4 and 5 of DP801249, Lots 6 and 7 of DP821183, Lot 22 of DP870608, Lot 1 of DP905281, Lot 1 of DP906668, Lot 1 of DP911212, Lots 1 and 2 of DP915913, Lot 2 of DP998239, and Lots 6, 9, 10, 13, 15, 16, 19, 21, 28, 45, 73, 74, 86, 122, 123, 125-127, 130, 131, 143, 149, 150-153, 177, 190, 195, 200, 214-216, 218-221, 224, 238-240, 256, 258-260, 263-265, 269-276 and 282 of DP750926. Dorset Road and Castlerock Road, and any Council and Crown Public and Unformed Roads, Unidentified Historical Title Residues and/or Creeks or Streams located within, between or adjacent to the above Parcels of Land.
<b>Coordinates (MGA 56) – approximate centre of MPO</b>	E: 295956 N: 6431335
<b>Area (approximately)</b>	Study area: 504 hectares (ha) Project area: 5,330 ha
<b>Local Government Authority</b>	Muswellbrook Shire Council.
<b>Proposed Land Use</b>	Open cut mine and associated infrastructure.
<b>Zoning</b>	<i>Muswellbrook Local Environmental Plan 2009:</i> RU1 Primary Production E3 Environmental Management See <b>Section 3.2.6</b> for further detail.

##### 3.1.2 Site Description and Inspection

The Project area is located approximately 3 km north-west of Muswellbrook and 1 km south of the locality of Kayuga in the Upper Hunter Valley of NSW.

Following background research and desktop assessment, including the review of historical aerial photographs, previous land ownership and land uses, environmental records and databases, and council information, a site inspection was undertaken to verify the nature and occurrence of potential sources of contamination within the Project area.

A detailed site inspection was conducted by one of JBS&G's trained and experienced environmental consultants on 5 December 2019. The site inspection included detailed review of the Study area and more general inspection of the Project area, including the existing MPO and consideration of the adjoining Bengalla Mine. Areas of interest inspected as part of this assessment included former and current structures, surface debris, and historical farm dams. A description of the areas of interest is provided in **Appendix A** with the locations in the Study area shown on **Figure 4**. A photographic log is presented in **Appendix B**.



The MPO is bound by Wybong Road and Bengalla Mine to the south, Kayuga Road to the east, Dorset Road to the north and agricultural land to the west. The MPO is secured with fencing and padlocked gates. The Study area was primarily cleared, open paddock grazing land, with some areas of remnant open woodland, as well as farm dams, access tracks and agricultural fencing (**Photographs 1 and 2**). Castlerock Road traverses the central-northern portion of the MPO from east to west.

The vegetation was generally in good condition, although grass cover was variable across the Project area at the time of the site inspection, likely a result of drought conditions.

#### Mount Pleasant Operation:

The MPO area was observed in order to assess potential contamination sources in the wider Project area. At the time of the inspection it was reported that no surface water from the operation was discharged off-site, including via the Hunter River Salinity Trading Scheme (see **Section 3.3.4**). Several dams were located across the MPO to capture surface runoff and to hold the water for subsequent utilisation in mining processes.

The Mine Water Dam, located in the central-southern portion of the MPO (See **Figure 2**, and **Photograph 3**), was utilised for mining activities including coal washing and machine washdown.

The Fines Emplacement Dam was located in the western portion of the MPO, with an additional dam location downstream as an overflow contingency measure. The water is treated (flocculated) to reduce turbidity prior to pumping to the Mine Water Dam for reuse.

A workshop was located in the Infrastructure Area (**Figure 2**) where machinery and trucks undergo maintenance. A spills incident protocol was in place whereby if surface water was impacted, a hydrocarbon sock was deployed to the affected dam. In addition, any soils impacted by a hydrocarbon spill were transferred to the hydrocarbon treatment cells.

The hydrocarbon treatment cells (**Photograph 4**) were located in the south-eastern portion of the MPO, directly west of the extraction pit. Hydrocarbon-impacted material (for example, resulting from a spill or hydraulic oil leak) was transported via moxie/dump truck to the treatment cells. Once in the cells, the impacted materials were sampled, mixed with bioremediation treatment agents and aerated over time prior to re-sampling and burying in the pit.

It should be noted that the MPO is a recently constructed operation, which was developed and operates under a comprehensive suite of approved management plans to mitigate potential environmental impacts, including:

- Environmental Management Strategy;
- Water Management Plan (WMP);
- Pollution Incident Response Management Plan; and
- Waste Management Plan.

#### Bengalla Mine

Bengalla Mine is located directly south of the MPO and Wybong Road (**Photograph 5**). Infrastructure for the operation of the neighbouring Bengalla Mine (including the electrical substation, **Location 3** on **Figure 4**, to power water pumps) was located within the Project area in the south, adjacent to Wybong Road. In relation to potential migration of groundwater and surface water runoff, Bengalla Mine is downgradient of the Project area and the operation of the Bengalla Mine is unlikely to impact the Study area.

It should be noted that Bengalla Mine contains approved discharge infrastructure for the MPO (i.e. the Controlled Release Dam) located in the south-west of the Bengalla Mine, shown on **Figure 2**.

### 3.1.3 Surrounding Land Use

The surrounding land uses have been identified as follows:

- North – Agricultural land, and village of Aberdeen to the north-east;
- East – Hunter River and Muswellbrook township;
- South – Bengalla Mine, the Hunter River and Mt Arthur Coal Mine; and
- West – Agricultural land.

### 3.1.4 Geology

A review of the 1:100 000 scale Hunter Coalfield Regional Geology Map (Department of Mineral Resources, 1993<sup>3</sup>) identified that the Project is located in the Hunter Coalfield in the northern part of the late Permian Wittingham Coal Measures of the Singleton Supergroup. The Project area is underlain by Jerrys Plains Subgroup, described as coal seams, claystone, tuff, siltstone, sandstone and conglomerate.

A review of eSPADE<sup>4</sup> Soil Landscape information identified that natural soils at the Project area consist of Brays Hill Soil and Roxburg Soil Landscapes. Brays Hill Soil Landscapes consist of mainly red clays on mid to upper slopes with black earth and grey clays on mid to lower slopes. Roxburg Soil Landscapes consist of mainly yellow podzolic soils on upper to midslopes with red solodic soils on rounded hills.

### 3.1.5 Topography

The landform within the Project area consists of undulating hills and open paddock grazing land. Surface elevations vary from a low point of approximately 140 metres above Australian Height Datum (m AHD) to a high point of approximately 360 m AHD.

### 3.1.6 Hydrology

The Project is located east of Sandy Creek which is a tributary of the Hunter River. The Project is situated west and north-west of the Hunter River, which flows in a south-westerly direction. The land generally drains east and south towards the Hunter River, and west toward Sandy Creek.

The MPO area is primarily unsealed and as such it is anticipated that a relatively significant proportion of precipitation falling will likely infiltrate the ground surface. During periods of high/extended rainfall, precipitation will flow to the nearest downgradient surface water body (including various dams, unnamed creeks or the Hunter River).

### 3.1.7 Hydrogeology

The hydrogeological regime of the Project area comprises:

- An alluvial groundwater system associated with the Hunter River to the east of the Project and Sandy Creek to the west, characterised by silt underlain by sands and gravels with a thickness of up to 30 m (MACH 2019a<sup>5</sup>); and
- A hard (fractured and porous) rock groundwater system associated with the Permian-aged Wittingham coal measures.

<sup>3</sup> Department of Mineral Resources (1993) *Hunter Coalfield Regional Geology Geological Series Sheet 9033 (Edition 2)*.

<sup>4</sup> NSW Office of Environment and Heritage (2018) *Soil Profile Attribute Data Environment (SPADE) soil profiles*, <http://www.environment.nsw.gov.au/eSpadeWebApp/> (accessed 3 September 2018).

<sup>5</sup> MACH Energy Australia Pty Ltd (2019a), *Mount Pleasant Operation: Groundwater Management Plan*, 31 October 2019

The majority of the Project area is located on the deeper hard rock groundwater system, with the height of the water table (prior to mining) estimated to range between 140 – 200 m AHD (MACH 2019a).

A conceptual model of the existing groundwater regime has been developed by Australasian Groundwater and Environmental Consultants Pty Ltd (AGE) (2020<sup>6</sup>), based on the geological maps and associated reports, hydrogeological reports and datasets collected for the MPO and surrounding operations and hydrogeological data collected by the NSW Government. Further discussion regarding the groundwater systems (including depth of the water table) in the vicinity of the Project is provided in the Groundwater Assessment as part of the EIS.

A search of Water NSW<sup>7</sup> website for registered groundwater borehole information was undertaken and results are presented in **Appendix C**. A total of 40 registered bores were located within a 500 m radius of the centre of the MPO, and their relevant information is summarised in **Table 3.2**.

A review of the registered bore information indicated that 20 registered bores are located within the MPO area and 20 registered bores are located approximately within a 500 m radius of the MPO.

**Table 3.2: Summary of Known Groundwater Bores in Proximity (500 m) of the Project Area**

Bore ID	Use	Standing Water Level (mbgs)	Well Depth (m)	Proximity to Project
GW011225	Stock	-	51.82	Within Project area
GW011953	Unknown	-	-	Within Project area
GW012693	Stock, Domestic	-	54.9	Within Project area
GW019455	Stock	-	49.7	Within Project area
GW028510	Irrigation	-	12	Within Project area
GW037774	Irrigation	-	13.5	Within Project area
GW038582	Stock	-	29.2	Within Project area
GW049501	Unknown	-	9.1	Within Project area
GW053007	Unknown	-	12.5	Within Project area
GW053159	Irrigation	-	14.6	Within Project area
GW056514	Stock, Domestic	-	14	Within Project area
GW061281	Stock, Domestic	-	-	Within Project area
GW064092	Stock, Domestic	-	31.2	Within Project area
GW078447	Stock, Domestic	-	11	Within Project area
GW078472	Stock	-	32	Within Project area
GW080203	Stock	3.3	19.3	Within Project area
GW080205	-	3	8.5	Within Project area
GW080206	-	5.1	14.1	Within Project area
GW061302	Stock, Domestic	-	41.1	Within Project area
GW015880	Irrigation	-	11	South-east of Project area
GW019456	Stock	-	76.2	North-west of Project area
GW026295	General Use	-	103	North of Project area
GW037479	Irrigation	-	10.6	North-east of Project area
GW037481	General Use	-	15.2	Within Project area
GW042701	Irrigation	-	14	South-east of Project area
GW042927	Irrigation	-	14.3	South-east of Project area
GW044553	Waste Disposal	-	10.5	East of Project area
GW045435	General Use	-	11.5	East of Project area
GW047216	Irrigation	-	11.3	South-east of Project area
GW047277	Irrigation	-	12.2	South-east of Project area
GW047522	Irrigation	-	13.4	South-east of Project area
GW048754	General Use	-	12.4	East of Project area
GW049015	Stock	-	51.8	North of Project area
GW053487	Irrigation	-	15.2	East of Project area

<sup>6</sup> Australasian Groundwater and Environmental Consultants Pty Ltd (2020) *Mount Pleasant Optimisation Project Groundwater Impact Assessment*.

<sup>7</sup> Water NSW website, <https://realtime.data.watarnsw.com.au/>, accessed 19 August 2019

Bore ID	Use	Standing Water Level (mbgs)	Well Depth (m)	Proximity to Project
GW053534	Irrigation	-	15	East of Project area
GW058147	Stock, Domestic	20	26	North-west of Project area
GW058686	Stock	-	11.9	North-east of Project area
GW071295	Irrigation	-	12.7	South-east of Project area
GW201518	Monitoring	63	75	South of Project area
GW201519	Monitoring	-	276.58	South of Project area

### 3.1.8 Acid Sulfate Soils

The Project area is not located within an area that has been assessed as part of the National Acid Sulfate Soil (ASS) Map (ASRIS, 2014<sup>8</sup>). It is considered that the Project is not located within an area of ASS risk, consistent with the topographic and geologic setting of the Project area.

## 3.2 Site History

### 3.2.1 Aerial Photographs

Aerial photographs from 1958, 1964, 1974, 1989, 1998 and 2003 were reviewed from SESL (2017<sup>9</sup>), and photographs from 2014 and 2019 were sourced from NearMap Ltd. All are presented in **Appendix D**, and a historical description of the Project area is outlined in **Table 3.3**.

**Table 3.3: Historical Description of the Project Area**

Date	Description
1958	The Project area consisted of cleared agricultural grazing land with trees intermittently present across the area. Farm dams, drainage lines and access roads were visible within the Project area. Castlerock Road is visible running east to west through the centre of the Project area, and Dorset Road along the northern boundary. Cultivated fields are visible adjacent to the Hunter River and the township of Muswellbrook is visible on the eastern side of the River.
1964	Aerials were available for the majority of the Project area, however did not include the northernmost and southernmost portions. The Project area remained relatively unchanged from the 1958 aerial image. An increase in the number of cultivated fields are visible along the Hunter River, and the township of Muswellbrook appears to have extended south of Muscle Creek.
1974	The Project area and surrounds remained relatively unchanged from the 1964 aerial image.
1989	Aerials were available for the majority of the Project area. The Project area and surrounds remained relatively unchanged from the 1974 aerial image.
1998	The Project area remained relatively unchanged from the 1989 aerial image. Topsoil stripping and possible excavation is apparent directly south of Wybong Road and appears to be associated with Bengalla Mine.
2003	The Project area remained relatively unchanged from the 1998 aerial image. Further topsoil stripping and excavation is apparent directly south of Wybong Road, associated with Bengalla Mine.
2014	The Project area remained relatively unchanged from the 2003 aerial image. The former open cut areas of Bengalla Mine appear to have been rehabilitated and mining activities progressed west of the original open cut.
2019	Changes related to the MPO are evident in the 2019 aerial image, including the construction of a railway loop in the southern portion of the Project area, and soil stripping and excavation associated with mining activities in the southern portion of the Project area. Excavation is evident in the South Pit, establishment of the mine water dam in the centre of the Project area, the infrastructure area in the central-western portion of the Project area, and establishment of the Fines Emplacement Area in the western portion of the Project area. Bengalla Mine appears to have extended in a westerly direction.

### 3.2.2 Land Ownership Details

The Project area historically comprised a series of estates with predominantly agricultural land use. Extent Heritage Pty Ltd (2018<sup>10</sup>) and VAHS (2014<sup>11</sup>) presented details on the history of the area

<sup>8</sup> Australian Soil Resource Information System (2014) *National Acid Sulfate Soil (ASS) Map*, Published: 30 June 2014.

<sup>9</sup> SESL (2017) *Tier 1 Detailed Site Investigation – Mount Pleasant Operation Rail Modification*, December 2017.

<sup>10</sup> Extent Heritage Pty Ltd (2018) *Mount Pleasant Operation, near Muswellbrook, New South Wales – Historic Heritage Assessment and Statement of Heritage Impact - DRAFT*.

<sup>11</sup> Veritas Archaeology and History Service (VAHS) (2014) *Mount Pleasant Historic Heritage Study*.

containing items of potential heritage significance. A summary of the history of six representative lots within the Study area and having a documented historical importance is provided following:

Lot 270 DP750926 (Report reference: MP04, MP05 and MP06)

- 10<sup>th</sup> November 1913: Conditional lease No. 7 Portion 270 (100 acres) was granted from the Crown to John Coady. It is likely that John Coady reared horses, cattle and pigs.
- 20<sup>th</sup> June 1928: The land was sold with two other portions (Portion 258 and Portion 260) to Lionel Alfred Bisley, a police sergeant of Muswellbrook.
- 24<sup>th</sup> January 1930: The three portions of land were sold by Lionel Alfred Bisley to David Powart, miner of Muswellbrook.
- 1<sup>st</sup> April 1941: The three blocks of land were sold to Neil Simpson, a member of the Royal Australian Airforce, formerly a grazier.
- Date not provided: Portion 270 was purchased by Eddie Watson from Allan Haynes.
- Date not provided: Rio Tinto Coal Australia purchased Portion 269 and 270 from Eddie Watson.

Lot 275 DP750926 (Report reference: MP10)

- 10<sup>th</sup> November 1913: Special Lease No. 10 (159 acres, 1 road) was granted by the Crown to William Stewart, farmer.
- 31<sup>st</sup> August 1943: Portion 274 and 275 sold to Gordon James Scriven, farmer.
- Date not provided: Rio Tinto Coal Australia purchased land from Gordon Scriven.

Lot 274 DP750926 (Report reference: MP19)

- 10<sup>th</sup> November 1913: Conditional lease Portion 274 was granted from the Crown to George L Gordon, saddler of Muswellbrook.
- 6<sup>th</sup> September 1927: Land was sold to William Stewart, farmer.
- 12<sup>th</sup> July 1943: Portion 274 and 275 sold to Gordon James Scriven.
- Date not provided: Rio Tinto Coal Australia purchased the land from Gordon James Scriven.

Lot 5 DP801249 (Report reference MP15)

- 15<sup>th</sup> November 1895: James Cobb White purchased portions 6, 263, 264 and 265 from the Crown.
- 6<sup>th</sup> August 1909: Sold all blocks to Thomas Blunt to form part of the Overton Estate.
- 8<sup>th</sup> April 1912: Thomas Blunt sold the four portions as Lot 24 to William F Robey.
- 27<sup>th</sup> May 1920: Edward Roland McTaggart, drover, sold Lot 24 to Stephen Saunders Thornton, farmer.
- 19<sup>th</sup> April 1934: Stephen Saunders Thornton sold Lot 24 to Herbert Oswald Calman, farmer, and his wife Margaret Calman.
- 7<sup>th</sup> September 1949: Herbert and Margaret Calman sold Lot 24 to Vincent Henry Martin, hotelkeeper.
- 6<sup>th</sup> February 1949: Vincent Henry Martin sold to Arthur Leonard Gardiner, grazier.
- Date not provided: Rio Tinto Coal Australia purchased the land from Arthur Leonard Gardiner.

#### Lot 177 DP750926 (Report reference MP45A)

- Prior to 1880: Joseph R Ridge purchased portion 177 from the Crown.
- 1911: Mr Michael Casey was reported to be the owner.
- 1930: Mr Michael Casey died, and the property continued as his late estate.
- 2013-14: Rio Tinto Coal Australia purchased the land from the Casey family.

#### Lot 1 DP1080962 (Report reference MP45B)

- 20<sup>th</sup> February 1892: portion 182 was transferred from the late John Hobart Cox to his son Charles Hobart Cox.
- 8<sup>th</sup> February 1897: C H Cox sold to Harris Isaac Clark and Francis Jacob Clark, butchers.
- 30<sup>th</sup> June 1898: The land was transferred to C M Campbell and J W Humphries.
- Between 1898 and 1909: The land was sold to Edward Casey.
- 6<sup>th</sup> March 1909: The estate of the late Edward Casey was transferred to his widow, Bridget, and children Mary Ann Lonergan, Margaret Agnes Casey, Bridget Mary Casey, Catherine Casey, Michael Casey, Patrick Casey and Thomas Casey.
- 1920 – 1922: Thomas Casey listed as the owner.
- Date unknown: The 'Edgeway' property passed to the children of Thomas' brother, Michael Casey.

### **3.2.3 Environment Protection Authority Records**

A search of the NSW EPA's database was undertaken on 4 December 2019 (**Appendix E**) for the Project area and immediate surroundings. The search included the following:

- NSW EPA contaminated land public register of record of notices (under section 58 of the *Contaminated Land Management Act 1997* [CLM Act]);
- NSW EPA *Protection of the Environment Operations Act 1997* (POEO Act) public register of licence, applications and notices (maintained under section 308 of the POEO Act); and
- NSW contaminated site notified to the EPA (under section 60 of the CLM Act).

No notices have been issued under the CLM Act section 58 for the Project area and immediate surroundings.

The search of the EPA record of licensed activities under section 308 of the POEO Act identified that there were no current or former prevention, clean-up or prohibition notices for the Project area. Licence variations were listed for the MPO. The following were identified within the vicinity of the Project area (it should be noted that notices or POEO licences were not sought east of the Hunter River as they are unlikely to impact the Project area):

- AQC Dartbrook Management PTY LTD, Stair Street, Muswellbrook (north-east) – POEO licence (coal works, mining for coal), licence variations; and
- Bengalla Mining Company, Bengalla Road, Muswellbrook (South) – POEO licence (coal works, mining for coal), licence variations, penalty notice, a clean-up notice whereby discharge occurred from mine dams into Dry Creek resulting from heavy local rain. Considering the down-gradient location of the Bengalla Mining Company, this incident is considered low-risk in terms of potential contamination impact on the Study area.

The Project area and immediate surroundings are not on the list of NSW contaminated sites notified to the EPA under the section 60 of the CLM Act. Twelve sites were included on the NSW contaminated site notified to the EPA ranging from 2 km to 17.5 km east and south-east of the MPO. All were under the management class of “Regulation under CLM Act not required” and downgradient of the Project area.

#### **3.2.4 Australian and NSW Heritage Register**

A search of the Australian Heritage Trust database and the NSW Heritage Inventory was undertaken and records are included in **Appendix F**. The search did not identify the presence of any items of national or state significance within the Project area.

#### **3.2.5 WorkCover NSW Dangerous Goods Database**

A dangerous goods licence search of the stored chemical information database of WorkCover NSW was not undertaken as part of this assessment. Based on-site observations and other historical records, it is considered unlikely that any significant dangerous goods storage occurred in the Study area, or that the Study area included any underground storage.

#### **3.2.6 Council Information – Planning Certificates**

A copy of Section 10.7 Planning Certificates for three representative lots within the Study area (Lot 274 DP750926, Lot 220 DP750926 and Lot 35 DP1076510) were obtained from the Muswellbrook Shire Council and are presented in **Appendix G**. These lots are considered to be generally representative of the conditions that would be expected across the Study area. Relevant information for the lots is summarised below:

- The Study area is zoned partially as RU1 Primary Production (Lot 220 DP750926 and Lot 35 DP1076510) and partially as E3 Environmental Management (Lot 274 DP750926) under the *Muswellbrook Local Environmental Plan 2009*;
- The land within the Study area has not been declared as critical habitat;
- The land within the Study area is not known to be in a conservation area;
- The land within the Study area does not contain any items of environmental heritage;



- The land within the Study area is generally not within a Mine Subsidence District proclaimed under section 15 of the *Mine Subsidence Compensation Act 1961*<sup>12</sup>, however a significant portion of the Project area is within a Mine Subsidence District (particularly in the north) due to the underground mining activities at the neighbouring Dartbrook Mine;
- The land within the Study area is not biodiversity certified, affected by a biobanking agreement or a native vegetation clearing set aside;
- The land within the Study area is not declared to be significantly contaminated land under the CLM Act at the date when the certificate was issued;
- The land within the Study area is not subject to a management order under the CLM Act at the date when the certificate was issued;
- The land within the Study area is not the subject of approved voluntary management proposal the subject of the EPA's agreement under the CLM Act at the date when the certificate was issued;
- The land within the Study area is not the subject to an ongoing maintenance order under the CLM Act at the date when the certificate was issued; and
- The land within the Study area has not been the subject of a site audit statement provided to Muswellbrook Shire Council.

Land uses permitted on RU1 zoned land:

- without consent includes extensive agriculture, home occupations and intensive plant agriculture;
- with consent includes air transport facilities, airstrips, animal boarding or training establishments, aquaculture, camping grounds, caravan parks, cellar door premises, cemeteries, community facilities, crematoria, depots, dwelling houses, eco-tourist facilities, educational establishments, environmental facilities, environmental protection works, extractive industries, farm buildings, flood mitigation works, forestry, function centres, group homes, hazardous industries, health consulting rooms, heavy industrial storage establishments, helipads, highway service centres, home-based child care, home businesses, home industries, industrial retail outlets, information and education facilities, intensive livestock agriculture, kiosks, landscaping material supplies, open cut mining, places of public worship, plant nurseries, recreation areas, recreation facilities (indoor), recreation facilities (major), recreation facilities (outdoor), research stations, restaurants or cafes, roads, roadside stalls, rural industries, rural supplies, rural worker's dwellings, secondary dwellings, service stations, sewerage systems, signage, storage premises, take away food and drink premises, tourist and visitor accommodation, transport depots, truck depots, turf farming, veterinary hospitals, waste disposal facilities, water supply systems; and
- that are prohibited include any development not specified above.

<sup>12</sup> It is noted the *Mine Subsidence Compensation Act 1961* has been repealed and replaced by the *Coal Mine Subsidence Compensation Act 2017*.



Land uses permitted on E3 zoned land:

- without consent includes extensive agriculture and home occupations;
- with consent includes air transport facilities, animal boarding or training establishments, Bed and breakfast accommodation, camping grounds, caravan parks, cellar door premises, dwelling houses, eco-tourist facilities, environmental facilities, environmental protection works, farm buildings, farm stay accommodation, flood mitigation works, home-based child care, home businesses, home industries, information and education facilities, intensive plant agriculture, oyster aquaculture, pond-based aquaculture, recreation areas, recreation facilities (outdoor), research stations, roads, rural worker's dwellings, secondary dwellings, sewerage systems, tank-based aquaculture, water supply systems; and
- that are prohibited include industries, multi dwelling housing, residential flat buildings, retail premises, seniors housing, service stations, warehouse or distribution centres, and any other development not specified above.

### **3.3 Relevant Reports Summary**

A review of reports available for this assessment is provided below.

#### **3.3.1 Detailed Site Investigation – Mount Pleasant Operation Rail Modification, SESL Australia (SESL 2017)**

- SESL Australia was engaged by MACH to conduct a detailed site investigation (DSI) for the Mount Pleasant Operation Rail Modification.
- The site location for the DSI was in the southern portion of the MPO, parallel to Wybong Road, and not within the bounds of the Study area as defined in this Land Contamination Assessment.
- A site inspection and sampling were conducted over three days in November 2017 and the following Areas of Environmental Concern (AECs) were identified:
  - Asbestos Containing Material (ACM) fragments observed on the soil surface at three locations;
  - Polycyclic aromatic hydrocarbons (PAHs) identified within fill materials exceeding the adopted Ecological Screening Level (ESL) at one location;
  - Total recoverable hydrocarbons (TRHs) exceeding the adopted ESL in fill materials at one location;
  - Lead concentrations exceeding the NSW Waste Classification criteria for general solid waste (GSW) at two locations; and
  - Nickel concentrations exceeding the NSW Waste Classification for GSW at three locations.
- It was concluded that while there was the potential for contamination resulting from historical importation and filling with soil materials of unknown origin and the presence of ACM fragments, any contamination could be managed by readily available methods and was unlikely to pose a barrier to development of the Project.

- Based on the conclusions, the following recommendations were made:
  - An asbestos management plan should be developed and implemented by a suitably qualified environmental consultant and carried out by appropriately licensed contractors; and
  - An unexpected finds protocol should be developed by an appropriately qualified environmental consultant.

### **3.3.2 Mount Pleasant Historic Heritage Study, Veritas Archaeology and History Service (VAHS 2014)**

- VAHS was engaged by Rio Tinto Coal Australia Pty Ltd to undertake a heritage assessment as part of a modification to Development Consent DA 92/97 in 2011;
- Fifty-five sites were identified and assessed for significance with regard to heritage value;
- Five sites were within the Study area defined in this preliminary site investigation;
- A summary of land title and estimates of year of construction of buildings was provided where relevant;
- The relevant sites included:
  - MP04: Shed constructed of corrugated iron and a steel frame;
  - MP05: Shed constructed of corrugated iron and a timber frame;
  - MP06: building footprints;
  - MP10: House constructed in 1918; and
  - MP19: Shed constructed of corrugated iron and timber.

### **3.3.3 Mount Pleasant Operation near Muswellbrook NSW: Historic Heritage Assessment and Statement of Heritage Impact – DRAFT, Extent Heritage Pty Ltd (Extent Heritage Pty Ltd 2018)**

- Extent Heritage Pty Ltd were engaged by MACH to prepare a historic heritage assessment and a statement of heritage impact as part of an EIS for the Project; and
- An updated heritage assessment was prepared, including locations assessed by VAHS (2014).

### **3.3.4 Mount Pleasant Operation: 2018 Annual Review, MACH (MACH 2019b<sup>13</sup>)**

- The annual review was completed in accordance with the *Post-approval requirements for State significant mining developments - Annual Review Guideline* (DPE, 2015a<sup>14</sup>) and Condition 3, Schedule 5 of Development Consent DA 92/97 and Condition 3(f) of ML 1645, ML 1708, ML 1709, ML 1713 and ML 1750;

<sup>13</sup> MACH Energy Australia Pty Ltd (2019b), *Mount Pleasant Annual Review (Annual Rehabilitation Report)*, 29 March 2019

<sup>14</sup> Department of Planning and Environment (DPE) (2015a), *Post-approval requirements for State significant mining developments - Annual Review Guideline*, October 2015

- No discharges were made to the Hunter River with the 15 credits held by MACH under the Hunter River Salinity Trading Scheme, and in accordance with EPL 20850 throughout the monitoring period. However, MACH self-reported an uncontrolled water discharge event from the Rail Loop area in the previous year (31 October 2017)<sup>15</sup>;
- There were no reportable environmental incidents in 2018;
- No contaminated land that posed a potential or material threat to the environment was encountered during the reporting period; and
- Two non-compliances were reported:
  - one regarding air quality monitoring; and
  - the second, where water seepage was observed in neighbouring Bengalla Mine. The suspected source of the seepage was Environmental Dam 3, and no pollution or environmental harm resulted from the non-compliance.

### **3.3.5 Mount Pleasant Operation: Pollution Incident Response Management Plan, MACH (MACH 2019c<sup>16</sup>)**

- The Pollution Incident Response Management Plan was prepared by MACH to satisfy the requirements under Condition O4.1 of Environment Protection Licence (EPL) 20850.
- Hazardous materials management is outlined in Section 3.2, and includes that accidental spills and incidents will be assessed on a case-by-case basis and will be remediated using a biodegradable spill absorbent.

### **3.3.6 Mount Pleasant Operation: Water Management Plan, MACH (MACH 2019d<sup>17</sup>)**

- The WMP was prepared by MACH to satisfy requirements of Development Consent DA 92/97, Condition 28, Schedule 3.
- The WMP includes a Site Water Balance, Erosion and Sediment Control Plan, Surface Water Management Plan, Groundwater Management Plan, and Surface and Ground Water Response Plan. In accordance with Condition 3, Schedule 5 of Development Consent DA 92/97, MACH review and evaluate the environmental performance of the WMP as part of the annual review of the Mining Operations Plan and Rehabilitation Management Plan (MOP). Management measures outlined in the WMP that are to be implemented and would minimise the risk of contamination include:
  - Chemicals and hydrocarbons are transported and stored on-site in accordance with the *NSW Work Health and Safety Act 2011* and the *Work Health and Safety (Mines and Petroleum Sites) Act 2013*;
  - On-site controls include storage within properly sealed containers and controlled areas, banded for medium to long-term storage requirements. These storage and waste receival areas are to be isolated from clean water catchments to minimise the risk of land or water pollution should an unplanned spill occur. These measures are also outlined in the Mount Pleasant Operation Waste Management Plan (2019<sup>18</sup>);
  - The response to any accidental spills or ground contamination is to be assessed on a case-by-case basis and remediated using biodegradable spill absorbent. Hydrocarbon or

<sup>15</sup> ERM May 2018, Mount Pleasant Operations Coal Mine Conditions of Approval Independent Environmental Audit.

<sup>16</sup> MACH Energy Australia Pty Ltd (2019c), *Mount Pleasant Operation: Pollution Incident Response Management*, November 2019.

<sup>17</sup> MACH Energy Australia Pty Ltd (2019d), *Mount Pleasant Operation: Water Management Plan*, 31 October 2019.

<sup>18</sup> MACH Energy Australia Pty Ltd (2019e), *Mount Pleasant Operation: Waste Management Plan*, 14 January 2019

chemical spills are to be reported in the mine site incident reporting and management system, with corrective and preventative measures undertaken as appropriate;

- Visual and olfactory checks are to occur following any contamination incidents, to monitor for any remnant contamination (this may involve laboratory assessment);
- Separation of disturbed area runoff from undisturbed area runoff;
- Establishment of erosion and sediment controls such as drains, diversion banks and sediment dams;
- Controlling all discharges from site in accordance with licences, permits and water quality requirements;
- Rehabilitation and/or stabilisation of infrastructure and mining areas; and
- Monthly water quality monitoring of water storage dams.

### 3.4 Conceptual Site Model

#### 3.4.1 Potential Areas of Environmental Concern

Based on the review of site history, site inspection and document review, general categories of environmental concern are presented in **Table 3.4**.

**Table 3.4: Areas of Environmental Concern and Associated Contaminants of Potential Concern**

Area of Environmental Concern (AEC)	Contaminants of Potential Concern (COPC)
Agricultural use of the land including associated infrastructure such as sheds and homesteads.	Organochlorine pesticides (OCPs), total recoverable hydrocarbons (TRH), asbestos, heavy metals.

#### 3.4.2 Potentially Contaminated Media

Based on the available site history and current site use information, soil is considered potentially contaminated media.

In summary for soils:

- There is potential for application of pesticides as part of previous farming activities. Due to the lapse of time between the application of these types of chemicals, the risk associated with pesticides is considered to be low; and
- Materials of structures identified as a potential source of ACM, lead-based paints and metal contaminants, including current standing homesteads, demolished and/or collapsed structures may impact surrounding soils.

#### 3.4.3 Potential for Migration

Contaminants generally migrate from a site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of the:

- Nature of the contaminants (solid/liquid and mobility characteristics);
- Extent of the contaminants (isolated or widespread);
- Location of the contaminants (surface soils or at depth); and
- Site topography, geology, hydrology and hydrogeology.

The potential contaminants identified as part of the site history review and site inspection (**Appendix A**) are generally in either a solid form (e.g. heavy metals, asbestos, etc.) or liquid form (e.g. pesticides, etc.).

Given the limited/isolated nature of contaminants, the potential for migration of solid contaminants via windblown dust is considered low. The potential for surface water migration of contaminants, and also infiltration to groundwater and migration through the soil profile, is similarly low.

Potential for migration of contaminants is increased should the following areas be disturbed or developed:

- Residential structures and sheds within, or directly adjacent to, the Study area (**Locations 8, 10 and 11 on Figure 4**).
- Debris from historical structures (**Locations 4, 5 and 7 on Figure 4**).

#### **3.4.4 Potential Exposure Pathways**

Based on the COPCs identified in soils, the existing site uses, and with consideration of future site development activities, the potential exposure pathways for the site currently, during and following development works is dermal and oral contact to impacted soils as present at shallow depths and/or accessible by future surface excavations across the Project area.

#### **3.4.5 Receptors**

Potential receptors of environmental impact present within the site that are required to be addressed with respect to the suitability of the Project area for the proposed development include:

- Excavation/construction/maintenance workers conducting activities at or in the vicinity of potentially contaminated media (see **Section 3.4.2**), who may potentially be exposed to COPCs through direct contact with impacted soils present within excavations and/or inhalation of dusts/fibres associated with impacted soils;
- Future users of open space or non-paved areas in the vicinity of the potentially contaminated media (see **Section 3.4.2**) who may potentially be exposed to COPCs through direct contact with impacted soils and/or inhalation of dusts/fibres associated with impacted soils; and/or
- Down-gradient flora species in the vegetated areas.

#### **3.4.6 Preferential Pathways**

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPCs as associated with either sediments or liquids.

Man-made preferential pathways are generally associated with areas of previously disturbed natural ground present beneath the existing ground surface.

#### **3.4.7 Conceptual Site Model Conclusion**

Based on the results of the preliminary site assessment there is considered to be a low potential for gross or widespread contamination at the Project area as a result of historical and/or current site uses.

The implementation of existing plans for managing water, wastes and incidents (see **Sections 3.3.5 and 3.3.6**) would mitigate the low risks identified.

It is recommended that a hazardous materials assessment is conducted on all buildings and building materials prior to demolition and removal from site. If asbestos is identified within the structures or surface material on-site, a licensed removalist will be required.

## 4. Future Changes of Use

For any future change of land use after the cessation of mining activities, remediation of the land may be required to render the land suitable for these uses. As a component of the MOP<sup>19</sup> (MACH 2019f), mine closure and the final landform have been considered.

The proposed final land uses for the Project area include permanent water infrastructure and storage areas, agricultural land, native woodland and grassland areas, and the final void shaped to reflect a less engineered profile that is consistent with the surrounding natural environment. Surface infrastructure not required for future use post-mining is to be decommissioned and removed.

The rehabilitation objectives for the final landform include:

- A landform that is safe, stable, non-polluting and sustainable, and integrated with surrounding natural landforms;
- Materials from disturbed areas are to be recovered, managed and used as rehabilitation resources, to the greatest extent practicable;
- Vegetation is fit for the intended post-mining land use; and
- Water retained on the site is fit for the intended post-mining land use/s, and water discharged from the site is suitable for receiving waters and fit for aquatic ecology and riparian vegetation.

Rehabilitation and remediation (if required) would be compatible with these objectives.

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<sup>19</sup> MACH Energy Australia Pty Ltd (2019f) *Mt Pleasant Operation - Mining Operations Plan and Rehabilitation Management Plan*, (30 June 2019 and 1 July 2020).

## 5. Conclusion

Following background research and desktop assessment of the Study area and existing MPO, including review of historical aerial photographs, previous land ownership and land uses, environmental records and databases and council information, a site inspection was undertaken to verify the nature and occurrence of potential sources of contamination within the Project area.

This site inspection included detailed review of the Study area and more general inspection of the Project area, including accessible areas within the active MPO and consideration of the adjoining Bengalla Mine. It should be noted that the MPO is a recently constructed operation, which was developed and operates under a comprehensive suite of approved management plans to mitigate potential land contamination (e.g. through the use of bunds).

Based on the desktop review and site inspection of the Project area, and subject to the limitations stated in **Section 6**, the Project area is considered to be suitable for the Project (i.e. no contamination has been identified which would make the land unsuitable for the Project).

Notwithstanding, if the following areas in the Study area are disturbed and/or developed by the Project, an assessment and management (inclusive of a hazardous materials survey for former structures) of the identified contamination will be required:

- Tenanted residences and potential chemical storage within sheds (**Location 8 and 11 on Figure 4**); and
- Collapsed structures and residual stockpiles (**Locations 3, 4, 5 and 7 on Figure 4**).

In addition, an aesthetic issue was identified with fly-tipped anthropogenic waste (**Location 12 on Figure 4**) and collapsed structures outlined above.

It is recommended that work, health, safety and environmental management controls (including protocols to manage unexpected finds) should be implemented during any future ground disturbance works.

It is also recommended that a hazardous materials assessment is conducted on all buildings and building materials prior to demolition and removal from site. If asbestos is identified within the structures or surface material on-site, a licensed removalist will be required.

For any future change of land use after the cessation of mining activities, remediation of the land may be required to render the land suitable for these uses.

## 6. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the Project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results, conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.



## Figures



#### Legend:

- Mining Operation
- Proposed Mining Operations (Application Lodged)
- Railway
- Local Government Boundary
- State Forest/ Reserve
- National Parks and Wildlife Estate
- Mining Lease Boundary (Mount Pleasant Operation)



Job No: 55754

Client: MACH Energy

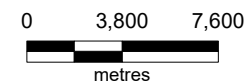
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Date 18/11/2020

Drawn By: AS

Checked By: RG

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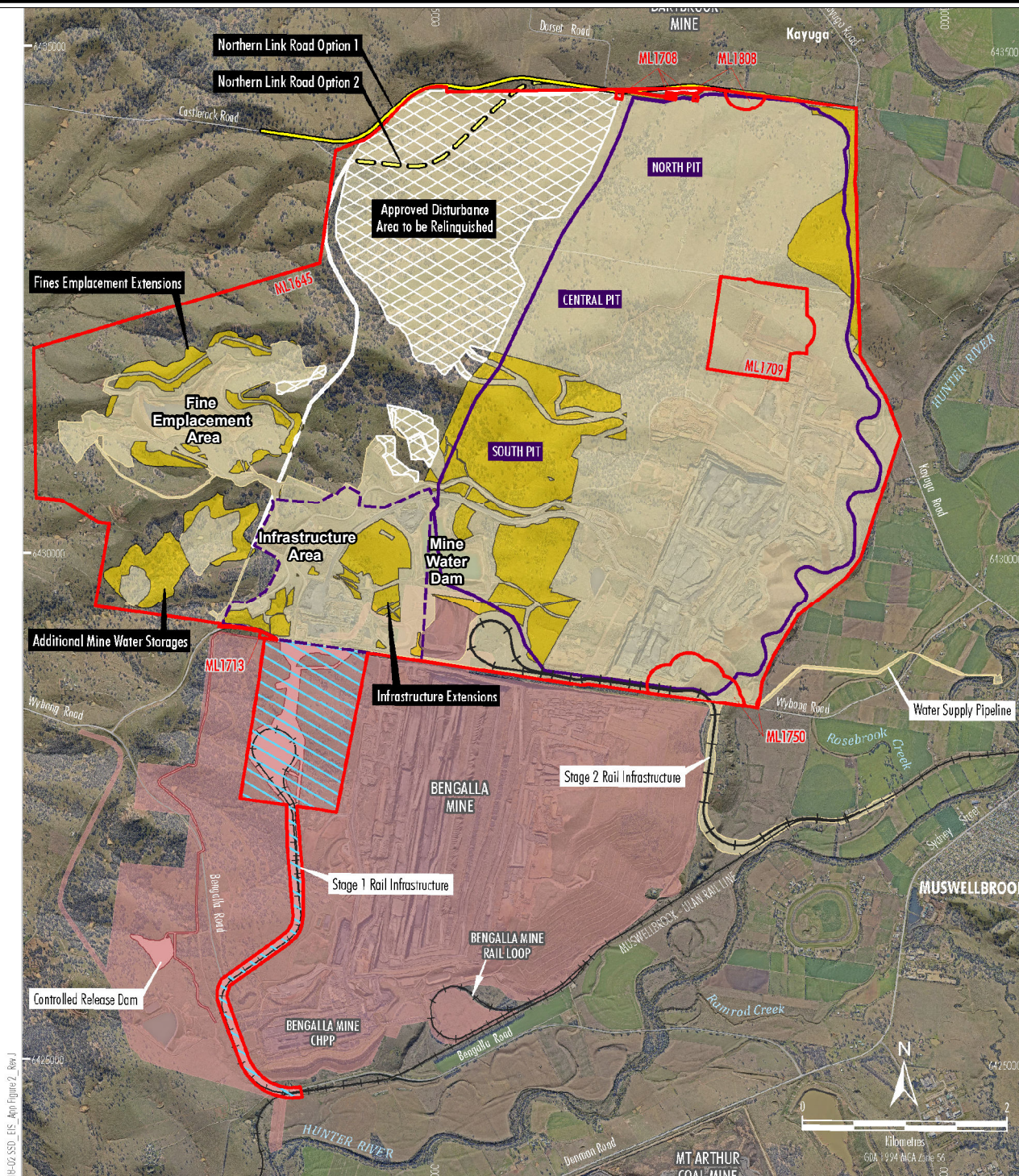
Coord. Sys. GDA 1994 MGA Zone 56

#### Mount Pleasant Optimisation Project

#### PROJECT LOCATION

FIGURE 1





#### Legend:

- ▬ Mining Lease Boundary (Mount Pleasant Operation)
- Approximate Extent of Existing/Approved Surface Development
- Infrastructure to be removed under the Terms of Condition 37, Schedule 3
- Bengalla Mine Approved Disturbance Boundary
- Existing/Approved Mount Pleasant Operation Infrastructure within Bengalla Mine Approved Disturbance Boundary
- Approved Disturbance Area to be Relinquished
- Approximate Additional Disturbance of Project Extensions
- ▬ Northern Link Road Option 1 Centreline
- ▬ Northern Link Road Option 2 Centreline
- Approximate Extent of Project Open Cut and Waste Rock Emplacement Landforms
- ▬ Revised Infrastructure Area Envelope



Job No: 55754

Client: MACH Energy

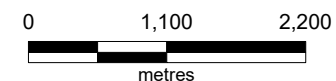
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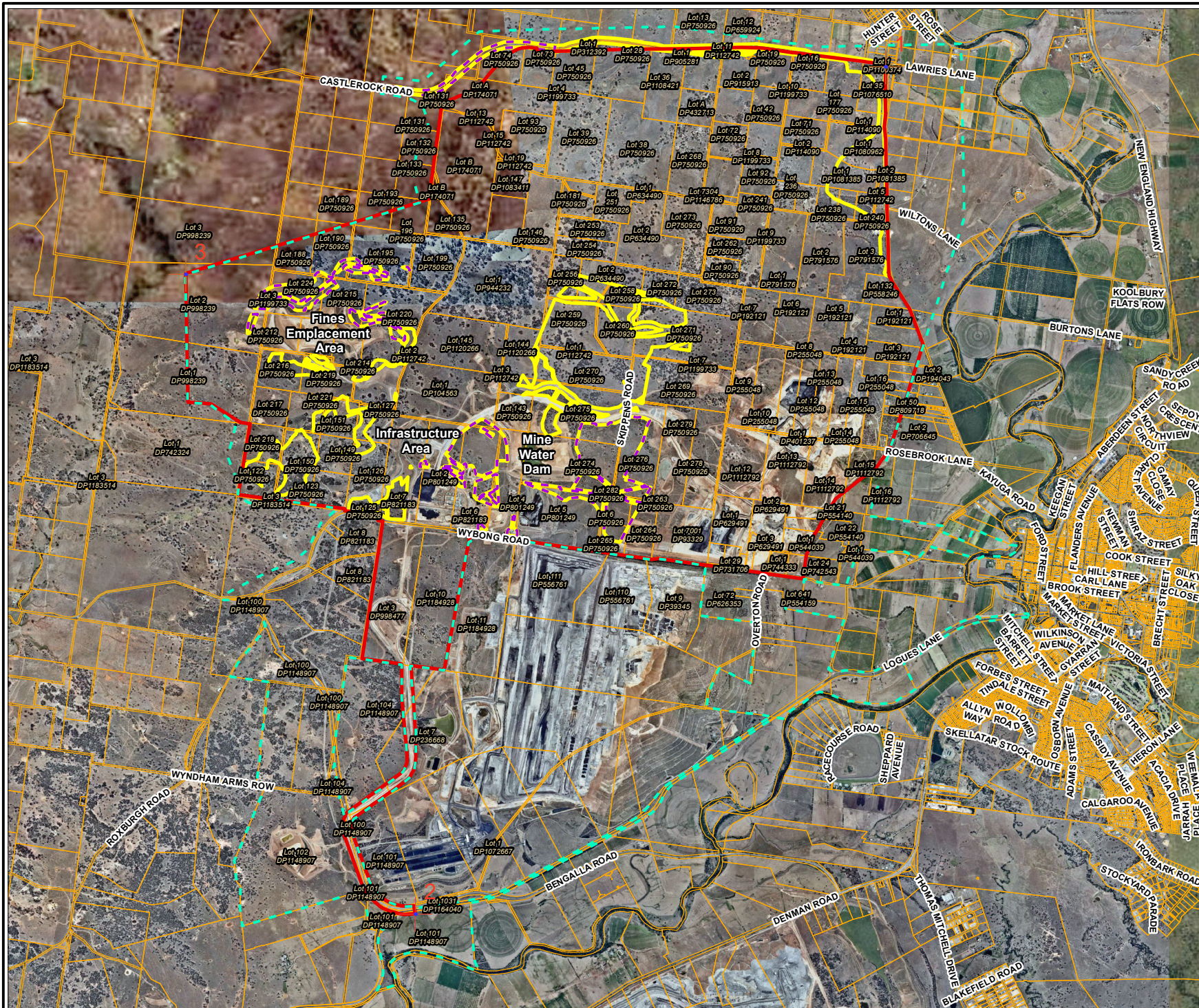
Coord. Sys. GDA 1994 MGA Zone 56

#### Mount Pleasant Optimisation Project

#### PROJECT GENERAL ARRANGEMENT

FIGURE 2





#### Legend:

- Project Development Application Area
- Mining Lease Boundary (Mount Pleasant Operation)
- No Access for Inspection
- Study Area
- Cadastre (NSW LPI, 2019)



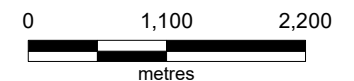
Job No: 55754

Client: MACH Energy

Version: R01 Rev A Date 23/03/2020

Drawn By: AS Checked By: RG

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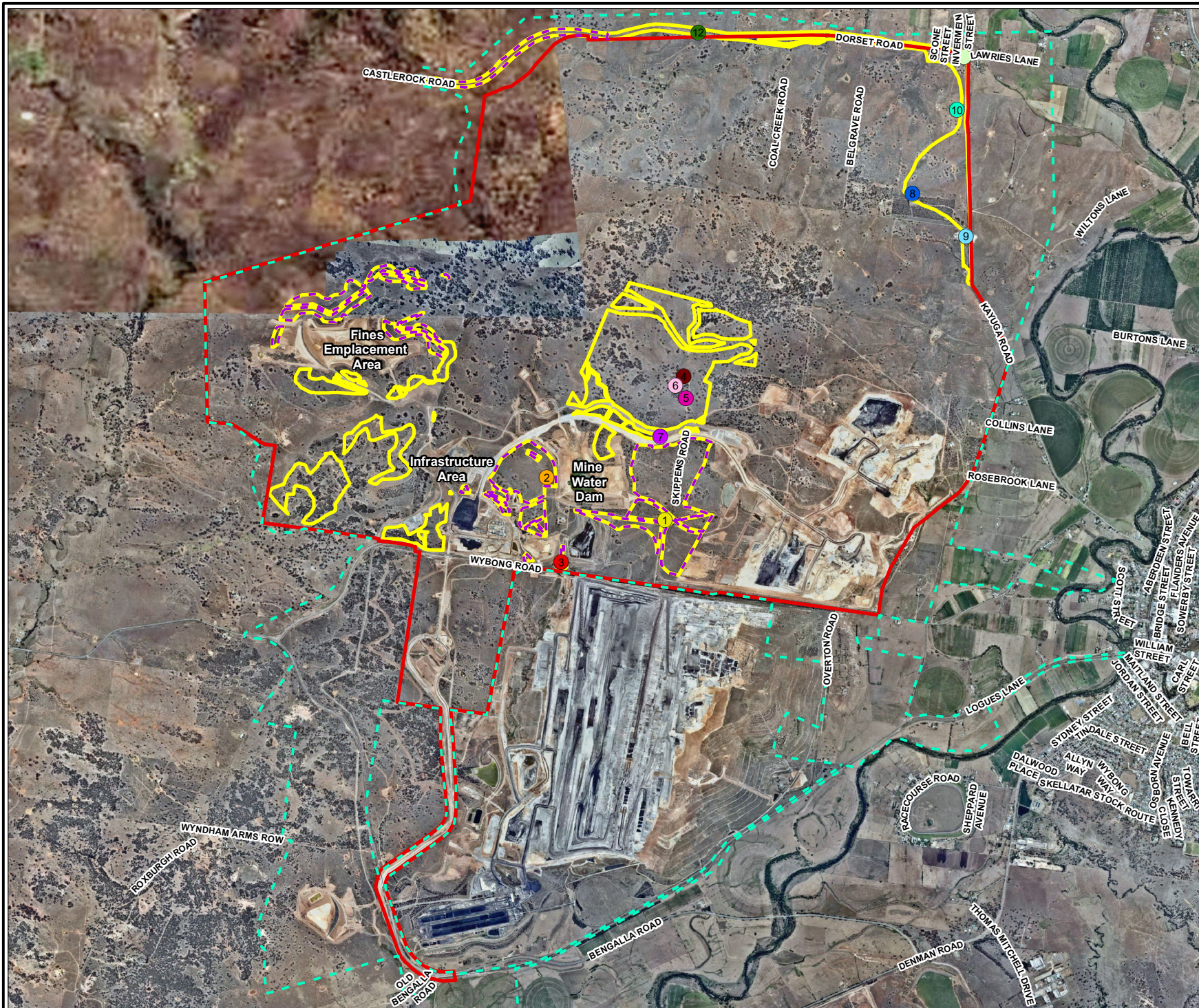
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant,  
Optimisation Project**

**LAND CONTAMINATION  
ASSESSMENT LAYOUT**

**FIGURE 3**





#### Legend:

- Project Development Application Area
  - Mining Lease Boundary (Mount Pleasant Operation)
  - Study Area
  - No Access for Inspection
- Areas of Environmental Concern**
- 1. Structure: Demolished Building
  - 2. Structure: Tank
  - 3. Electrical Substation
  - 4. Stockpile: Timber & Metals
  - 5. Stockpiles: Timber & Metals
  - 6. Concrete Slabs
  - 7. Structure: Collapsed
  - 8. Structure: Residence & Garage (Tenanted)
  - 9. Ground Disturbance
  - 10. Structure: Residence, Dairy & Sheds
  - 11. Structure: Residence & Shed (Tenanted)
  - 12. Fly-Tipped Material



Job No: 55754

Client: MACH Energy

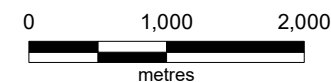
Version: R01 Rev A

Date 23/03/2020

Drawn By: AS

Checked By: RG

Scale 1:55,000



Coord. Sys. GDA 1994 MGA Zone 56

#### Mount Pleasant Optimisation Project

#### LAND CONTAMINATION ASSESSMENT FEATURES

FIGURE 4



## **Appendix A Site Inspection Summary**

## Appendix A Site Inspection Summary

A detailed site inspection was conducted by one of JBS&G's trained and experienced environmental consultants on 5 December 2019. Areas of interest inspected as part of this assessment included former and current structures, surface debris, and historical farm dams in the Study area.

### Dams

Of the dams visually inspected there was no evidence of anthropogenic fill material used in construction of the dam walls or the presence of asbestos containing materials (ACM). Mounded material observed surrounding dams were consistent with surrounding soils (**Photographs 1 and 2**).

### Paddocks – South-Western Part of the Project Area

The south-western part of the Project area comprised open paddocks with some trees (**Photograph 3**). Cattle were observed in the paddocks within the south-western part of the Project area (**Photograph 4**). No anthropogenic impacted fill or ACM pipelines associated with the three dams were observed within this part of the Study area.

The Fines Emplacement Area was located in the western part of the Project area whereby flocculation is used to settle fines and water is reused in the mining process (e.g. coal washing) (see **Figure 2**). Areas to the north and north-east of the Fines Emplacement Area were not accessible due to steep terrain, fencing and lack of access tracks (See **Figure 2 and 3**). Consequently, a desktop review of aerial photographs was undertaken and indicated dirt tracks were present, potentially resulting from cattle accessing nearby dams and trees for shade. No structures, staining or other potential sources of contamination were observed during the site inspection, or via the desktop review of aerial photographs (2019 Nearmap Aerial, **Appendix D**).

No odours, staining or asbestos was observed within this part of the Study area.

### Paddocks and former structures (water tank, debris) – Central-southern part of the Project Area **Location 1, 2 and 3 on Figure 4**

The central-southern part of the Project area was inaccessible due to site operational safety requirements. Lot 274 DP750926, Lot 5 DP801249, Lots 6, 265 and 263 DP 750926 were observed from the lot boundaries, with a structure (**Location 1**) visible in aerial photographs not identified during the site inspection, possibly due to tall grass/vegetation. The structure visible in aerial photographs within Lot 4 of DP801249 was not sighted during the inspection, however was likely a water tank (**Location 2**) and is not expected to contain potential sources of contamination.

An electrical substation has been constructed in the southern part of the Project area (**Location 3**), adjacent to Wybong Road, to supply power to water pumps for the Bengalla Mine. This portion of land was not inspected due to access restrictions, however a desktop review did not identify any potential sources of contamination.

### Paddocks and Former Structures – Central Part of the Project Area **Location 4, 5, 6 and 7 on Figure 4**

Four stockpiles of various sizes (**Location 4**: 260 m<sup>3</sup>, **Location 5**: 200 m<sup>3</sup>, 14 m<sup>3</sup> and 1.8 m<sup>3</sup>) of debris including timber, corrugated iron, house furniture and metals were observed in the central part of the Project area, adjacent to two cement water tanks (**Photographs 5 and 6**). The location of the stockpiles is consistent with the approximate location presented by VAHS (2014)<sup>1</sup> of heritage items MP05 (**Location 4**) and MP04 (**Location 5**), each described as sheds constructed of timber and corrugated iron. Rusted remains of a 40 gallon drum were observed within the stockpile at

---

<sup>1</sup> Veritas Archaeology and History Service (VAHS) (2014) Mount Pleasant Historic Heritage Study.

**Location 4.** A concrete slab (**Location 6**, MP06, described as a former dairy) was observed west of the stockpiles of debris (**Photograph 7**).

South of the stockpiles, between the haul roads servicing the open cut were the remains of a small cottage (**Location 7**, likely MP10, house constructed of timber and corrugated iron construction, **Photograph 8**).

Several dams were observed within this part of the Study area with no evidence of fill, anthropogenic material or ACM observed.

There was no evidence of odours, staining or ACM surrounding the concrete slab, debris stockpiles and building remnants in this part of the Study area.

#### Residence, Shed and Paddocks – Eastern Part of the Project Area

##### **Location 8 and 9 on Figure 4**

This portion of the Study area is in the eastern part of the Project area, adjacent to Kayuga Road and directly north of Castlerock Road, and consisted of a residence, a steel shed, two concrete water tanks (**Location 8**), paddocks and a dam. The site inspection conservatively considered all buildings within or near the extent of this part of the Study area. Access to the residential dwelling was not possible during the site inspection due to access constraints. It appeared to be constructed of brick and potential ACM cladding (**Photograph 9**). North of the residence was a steel shed of which the contents were unknown. The dam did not appear to comprise anthropogenic fill material or ACM pipes.

Ground disturbance was observed adjacent to Kayuga Road and appeared to be within a drainage line (**Location 9**, **Photograph 10**). The disturbance appeared to be related to potential removal of soils rather than the import of materials. Some mounding observed on the northern boundary of the disturbance was consistent with surrounding soils and may have been placed strategically to divert surface run-off away from the excavated area during rainfall events.

No staining or odours were observed within this part of the Study area, and no asbestos (or potential ACM) was observed within the paddocks, dam and ground disturbance area.

#### Residence, Dairy and Sheds, North-eastern Part of the Project Area

##### **Location 10 on Figure 4**

A residential building, dairy and three sheds (**Location 10**) were observed to the west of the Study area, within the approved MPO area. The structures were identified by VAHS (2014) as MP45a. During the site inspection, suspected ACM was visually identified in the ceiling of the dairy and some of the external walls of the residential building (**Photographs 11 and 12**).

No staining or odours were observed in this part of the Study area, with the structures located within the approved MPO area.

#### Residence and Shed – North-eastern Part of the Project Area

##### **Location 11 on Figure 4**

A residential dwelling, attached carport, shed and cement tank were located on the corner of Dorset and Kayuga Roads (**Location 11**). No access was permitted to the property. The residential dwelling appeared to be constructed of potential ACM cladding with possibly an ACM roof (**Photograph 13**).

No staining or odours were observed within this part of the Study area.

#### Fly-tipped Material, Standing Structure, and Former Structures (not present at the time of site inspection) – Dorset Road, Northern Part of the Project Area

##### **Location 12 on Figure 4**

Based on a desktop review of historical aerial imagery, there were three areas where materials and/or structures were previously present within the northern part of the Project area. These



locations were visited during the site inspection, however, no evidence of the former structures and/or associated debris were observed.

A structure amongst a small stand of trees was observed on aerial photographs at the western end of Belgrave Access Road, beyond Dorset Road. Due to the poor condition of the track, the structure was not accessible for inspection.

A small stockpile of fly-tipped material (2.7 m<sup>3</sup>) was observed on the northern side of Dorset Road (**Location 12**). The dumped material comprised household waste, including carpet, metals and glass (**Photograph 14**).

No odours, staining or ACM were observed on Dorset Road or within the accessible road corridor, or associated with the fly-tipped material.

**Attachment: Photo Log**



**PHOTO 1: REMNANT FARM DAM IN SOUTH-WESTERN PORTION OF SITE, FACING NORTH-EAST**



**PHOTO 2: MOUNDING NEAR DAM IN NORTH-EASTERN PORTION OF SITE, FACING WEST**



**PHOTO 3: Paddock AND TREE STANDING IN SOUTH-WESTERN PORTION OF SITE, FACING SOUTH-EAST**



**PHOTO 4: CATTLE GRAZING IN VEGETATED SOUTH-WESTERN PORTION OF SITE, FACING WEST**



Job No: 55754

Client: MACH Energy

Version: R01 Rev B

Date: 23/03/2020

Drawn By: RG

Checked By: SM

Not to Scale

Coord. Sys n/a

**Mount Pleasant Optimisation Project,  
Wybong Road, Muswellbrook**

**PHOTO LOG**



**PHOTO 5: STOCKPILE OF TIMBER, IRON, FURNISHINGS AND METAL DRUM, FACING NORTH-EAST (LOCATION 4, MP05)**



**PHOTO 6: TWO CEMENT TANKS NEAR STOCKPILES ARE TIMBER AND IRON (LOCATION 5, MP04), FACING SOUTH-EAST**



**PHOTO 7: CONCRETE SLAB REMAINING FROM A DAIRY (LOCATION 6, MP06), FACING NORTH**



**PHOTO 8: REMAINS OF A RESIDENTIAL STRUCTURE OR SHED IN CENTRAL-SOUTHERN PORTION OF THE SITE (LOCATION 7, MP10), FACING SOUTH-EAST**



Job No: 55754

Client: MACH Energy

Version: R01 Rev B

Date: 23/03/2020

Drawn By: RG

Checked By: SM

Not to Scale

Coord. Sys n/a

**Mount Pleasant Optimisation Project,  
Wybong Road, Muswellbrook**

**PHOTO LOG**



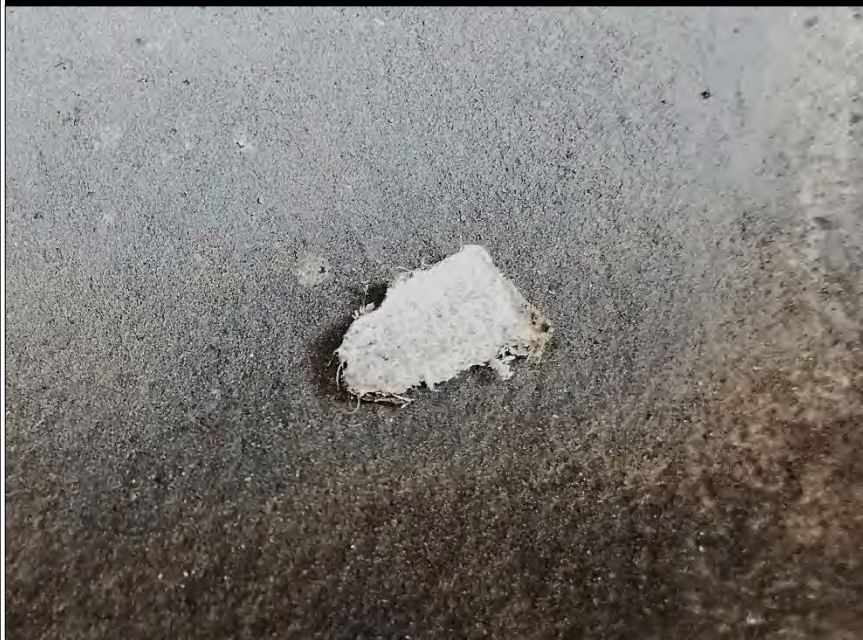
**PHOTO 9: RESIDENCE WITH CHIPPED, POTENTIAL ACM BOARDING, NEXT TO A SHED (LOCATION 8) FACING WEST**



**PHOTO 10: DISTURBED GROUND IN NORTH-EASTERN PORTION OF SITE (LOCATION 9), FACING EAST**



**PHOTO 11: PIECE OF FLAKED ACM MATERIAL WITH VISIBLE FIBRES FROM DAIRY CEILING.**



**PHOTO 12: EXTERNAL BOARDING COMPRISING ACM (LEFT) AND TIMBER (RIGHT) ON COTTAGE (LOCATION 10, MP45A), FACING SOUTH**



Job No: 55754

Client: MACH Energy

Version: R01 Rev B

Date: 23/03/2020

Drawn By: RG

Checked By: SM

Not to Scale

Coord. Sys n/a

**Mount Pleasant Optimisation Project,  
Wybong Road, Muswellbrook**

**PHOTO LOG**



**PHOTO 13: RESIDENTIAL STRUCTURE ON CNR DORSET RD AND KAYUGA RD, FACING SOUTH-EAST**



**PHOTO 14: FLY TIPPED MATERIAL ON NORTHERN SIDE OF DORSET ROAD (LOCATION 12), FACING WEST**



Job No: 55754

Client: MACH Energy

Version: R01 Rev B

Date: 23/03/2020

Drawn By: RG

Checked By: SM

Not to Scale

Coord. Sys n/a

**Mount Pleasant Optimisation  
Project,  
Wybong Road, Muswellbrook**

**PHOTO LOG**

## Appendix B Photographic Log



**PHOTO 1: REMNANT FARM DAM IN SOUTH-WESTERN PORTION OF SITE, FACING NORTH-EAST**



**PHOTO 2: REMAINING FARM FENCING, NORTH-EASTERN PORTION OF SITE, FACING NORTH-EAST**



**PHOTO 3: MINE WATER DAM, FACING SOUTH**



**PHOTO 4: HYDROCARBON TREATMENT CELLS, FACING NORTH-EAST**



Job No: 55754

Client: MACH Energy

Version: R01 Rev B

Date: 23/03/2020

Drawn By: RG

Checked By: SM

Not to Scale

Coord. Sys n/a

**Mount Pleasant Optimisation Project,  
Wybong Road, Muswellbrook**

**APPENDIX B: PHOTO LOG**



PHOTO 5: NEIGHBOURING BENGALLA MINE, FACING SOUTH-EAST



Job No: 55754	
Client: MACH Energy	
Version: R01 Rev B	Date: 23/03/2020
Drawn By: RG	Checked By: SM
Not to Scale	
Coord. Sys n/a	
Mount Pleasant Optimisation Project, Wybong Road, Muswellbrook	
APPENDIX B: PHOTO LOG	

## **Appendix C WaterNSW Registered Groundwater Bores**

**GW011225**

## Site Details

--	--	--	--	--	--

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	6.10	6.10	Clay	Clay	
6.10	30.48	24.38	Rock	Rock	
30.48	34.14	3.66	Coal	Coal	
34.14	51.82	17.68	Sandstone Black	Sandstone	

\*\*\* End of GW011225 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW011953

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): NOT KNOWN

Work Type: Well

Work Status:

Construct.Method: Hand Dug

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1956

Final Depth: 9.10 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level

(m):

GWMA:

Salinity Description:

GW Zone:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
3

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 141.10 m (A.H.D.)  
Elevation R.L. at Surface  
Source:

Northing: 6428689.000  
Easting: 298186.000

Latitude: 32°15'37.3"S  
Longitude: 150°51'27.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Timber	0.00	0.00	1829			

\*\*\* End of GW011953 \*\*\*

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# WaterNSW

## Work Summary

GW012693

Licence: 20WA214797

Licence Status: CURRENT

Authorised STOCK,DOMESTIC

Purpose(s):

Intended Purpose(s): NOT KNOWN

Work Type: Bore

Work Status: Supply Obtained

Construct.Method: Cable Tool

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1956

Final Depth: 54.90 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property: BERRYWOOD NSW

Standing Water Level

(m):

GWMA: -

Salinity Description:

GW Zone: -

Yield (L/s):

## Site Details

Site Chosen By:

County

Form A: BRISBANE

Licensed: BRISBANE

Parish

ELLIS

ELLIS

Cadastre

3

Whole Lot //

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Northing: 6428891.000

Latitude: 32°15'30.3"S

Elevation (Unknown)

Easting: 297475.000

Longitude: 150°51'00.1"E

Source:

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.90	54.00	152			Suspended in Clamps

**\*\*\* End of GW012693 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



# WaterNSW

## Work Summary

GW019455

Licence: 20WA214880

Licence Status: CURRENT

Authorised Purpose(s): STOCK  
Intended Purpose(s): STOCK

Work Type: Bore

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:  
Completion Date: 01/01/1962

Final Depth: 49.70 m  
Drilled Depth: 49.70 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: N/A NSW

GWMA: -  
GW Zone: -

Standing Water Level  
(m):  
Salinity Description:  
Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed: BRISBANE  
Parish  
ELLIS  
ELLIS  
Cadastre  
215  
Whole Lot //

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6431788.000  
Easting: 292939.000

Latitude: 32°13'53.3"S  
Longitude: 150°48'09.1"E

GS Map: -

MGA Zone: 56

Coordinate PR.,ACC.MAP  
Source:

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	2.44	2.44	Clay Yellow	Clay	
2.44	7.92	5.48	Sandstone	Sandstone	
7.92	24.08	16.16	Shale	Shale	
24.08	26.21	2.13	Coal	Coal	
26.21	49.68	23.47	Shale Grey	Shale	

**\*\*\* End of GW019455 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW028510

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status: Supply Obtained

Construct.Method: Rotary

Owner Type: Private

Commenced Date:  
Completion Date: 01/06/1965

Final Depth: 12.00 m  
Drilled Depth: 12.00 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

GWMA:  
GW Zone:

Standing Water Level  
(m):  
Salinity Description: 501-1000 ppm  
Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:  
Parish  
ELLIS  
Cadastre  
3

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-2N  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6429099.000  
Easting: 298649.000

Latitude: 32°15'24.3"S  
Longitude: 150°51'45.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-0.30	-0.30	1219			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.70	12.10	1.40	Unconsolidated	10.40					

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------

(m)	(m)	(m)			
0.00	4.57	4.57	Loam	Loam	
4.57	6.10	1.53	Sand	Sand	
6.10	8.53	2.43	Sand Small Gravel	Sand	
8.53	10.67	2.14	Gravel	Gravel	
10.67	12.04	1.37	Gravel Medium-coarse Water Supply	Gravel	

\*\*\* End of GW028510 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW037774

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:  
Completion Date: 01/10/1974

Final Depth: 13.50 m  
Drilled Depth: 13.60 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L22 DP554140 (3)

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-2N  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6429099.000  
Easting: 298649.000

Latitude: 32°15'24.3"S  
Longitude: 150°51'45.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-1.50	13.10	1219			Seated on Bottom

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.90	13.40	2.50	Unconsolidated	10.90					

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------

(m)	(m)	(m)			
0.00	7.62	7.62	Loam	Loam	
7.62	13.56	5.94	Gravel Water Supply	Gravel	

Remarks

01/11/1983: REPLACES B/N 28510

\*\*\* End of GW037774 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW038582

Licence: 20WA215053

Licence Status: CURRENT

Authorised Purpose(s): STOCK  
Intended Purpose(s): STOCK

Work Type: Bore

Work Status: Needs Reconditioning

Construct.Method: Cable Tool

Owner Type: Private

Commenced Date:

Completion Date:

Final Depth: 29.20 m

Drilled Depth: 29.30 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: ATHLONE NSW

GWMA: -

GW Zone: -

Standing Water Level

(m):

Salinity Description: Hard

Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed: BRISBANE

Parish  
ELLIS  
ELLIS

Cadastre  
28  
Whole Lot //

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6434218.000  
Easting: 295797.000

Latitude: 32°12'36.3"S  
Longitude: 150°50'00.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Opening	Slots	-100.00	0.00	152		1	A: 6.35mm
1	1	Casing	P.V.C.	-0.60	11.50	152			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
26.50	29.20	2.70	Fractured	8.50		0.69			

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------

(m)	(m)	(m)			
0.00	18.28	18.28	Driller	(Unknown)	
18.28	22.86	4.58	Sandstone	Sandstone	
22.86	29.26	6.40	Shale Water Supply	Shale	

Remarks

14/04/1976: Changed from 18.29m to 29.26m on 01/01/74 CASING RENEWED CAS LN01 REFERS

\*\*\* End of GW038582 \*\*\*

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# WaterNSW

## Work Summary

GW049501

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): NOT KNOWN

Work Type: Well

Work Status: Supply Obtained

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/03/1979

Final Depth: 9.10 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

GWMA:

GW Zone:

Standing Water Level

(m):

Salinity Description: invalid code

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
13

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6434554.000

Easting: 297178.000

Latitude: 32°12'26.3"S

Longitude: 150°50'53.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Timber	0.00	0.00				

\*\*\* End of GW049501 \*\*\*

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW053007

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s): NOT KNOWN

Work Type: Well

Work Status:

Construct.Method: Cable Tool

Owner Type: Private

Commenced Date:  
Completion Date: 01/01/1965

Final Depth: 12.50 m  
Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
3

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6428786.000  
Easting: 298420.000

Latitude: 32°15'34.3"S  
Longitude: 150°51'36.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	0.00	0.00	120			

**\*\*\* End of GW053007 \*\*\***

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW053159

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status: Supply Obtained

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/02/1981

Final Depth: 14.60 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level

(m):

GWMA:

Salinity Description: 1001-3000 ppm

GW Zone:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L9 (3)

Region: 20 - Hunter

CMA Map: 9033-1S

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6430982.000  
Easting: 298795.000

Latitude: 32°14'23.3"S  
Longitude: 150°51'52.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

\*\*\* End of GW053159 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW056514

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s): STOCK, DOMESTIC

Work Type: Well

Work Status:

Construct.Method: Auger

Owner Type: Private

Commenced Date:  
Completion Date: 01/02/1982

Final Depth: 14.00 m  
Drilled Depth: 14.00 m

Contractor Name: (None)  
Driller: Daryl George Wilson  
Assistant Driller:

Property:

Standing Water Level  
(m):  
Salinity Description:  
Yield (L/s):

GWMA:  
GW Zone:

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:  
Parish  
ELLIS  
Cadastre  
3

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6431211.000  
Easting: 299497.000

Latitude: 32°14'16.3"S  
Longitude: 150°52'19.1"E

GS Map: -  
MGA Zone: 56  
Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-0.60	14.00	1219			Seated on Bottom

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.40	14.00	2.60	(Unknown)						

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------

(m)	(m)	(m)			
0.00	4.57	4.57	Loam	Loam	
4.57	11.43	6.86	Clay Loam	Clay	
11.43	14.02	2.59	Gravel	Gravel	

\*\*\* End of GW056514 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW061281

Licence: 20WA215391

Licence Status: CURRENT

Authorised STOCK,DOMESTIC  
Purpose(s):  
Intended Purpose(s): STOCK, DOMESTIC

Work Type:

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date:

Final Depth:

Drilled Depth:

Contractor Name:

Driller:

Assistant Driller:

Property: N/A NSW

Standing Water Level  
(m):

GWMA: -

GW Zone: -

Salinity Description:

Yield (L/s):

## Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: Licensed: BRISBANE	ELLIS	Whole Lot 35//1076510

Region: -  
River Basin: -  
Area/District: -

CMA Map:

Grid Zone:

Scale:

Elevation:  
Elevation  
Source:

Northing:  
Easting:

Latitude:  
Longitude:

GS Map: -

MGA Zone:

Coordinate Source:

\*\*\* End of GW061281 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



# WaterNSW

## Work Summary

GW064092

Licence: 20WA215463

Licence Status: CURRENT

Authorised DOMESTIC,STOCK  
Purpose(s):  
Intended Purpose(s): STOCK, DOMESTIC

Work Type: Bore

Work Status:

Construct.Method: Rotary

Owner Type: Private

Commenced Date:  
Completion Date: 01/02/1984

Final Depth: 31.20 m  
Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property: N/A NSW

GWMA: -  
GW Zone: -

Standing Water Level  
(m):  
Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County Parish Cadastre  
Form A: BRISBANE ELLIS L27 (SEC 3)  
Licensed: BRISBANE ELLIS Whole Lot //

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6428804.000  
Easting: 297765.000

Latitude: 32°15'33.3"S  
Longitude: 150°51'11.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	0.00	152			

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
0.00	0.00	0.00	(Unknown)	19.50		0.69			

## Remarks

**\*\*\* End of GW064092 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW078447

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): STOCK, DOMESTIC

Work Type: Bore

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date:

Final Depth: 11.00 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

GWMA:  
GW Zone:

Standing Water Level  
(m):

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
LOT 26 DP 750926

Region: 20 - Hunter

River Basin: - Unknown  
Area/District:

CMA Map:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation Unknown  
Source:

Northing: 6433998.000  
Easting: 298224.000

Latitude: 32°12'45.1"S  
Longitude: 150°51'32.6"E

GS Map: -

MGA Zone: 56

Coordinate Unknown  
Source:

## Remarks

07/11/2003: Location of bore on site estimated only

\*\*\* End of GW078447 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW078472

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): STOCK

Work Type: Bore

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date: 16/08/1999

Final Depth: 32.00 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:

GW Zone:

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
28//750926

Region: 20 - Hunter

CMA Map:

River Basin: - Unknown  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation Unknown  
Source:

Northing: 6434355.000  
Easting: 296078.000

Latitude: 32°12'32.1"S  
Longitude: 150°50'10.9"E

GS Map: -

MGA Zone: 56

Coordinate Unknown  
Source:

\*\*\* End of GW078472 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW080203

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): STOCK

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 15/05/2002

Final Depth: 19.30 m

Drilled Depth: 19.30 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level 3.300  
(m):

GWMA:

GW Zone:

Salinity Description:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
LT146 DP750926

Region: 20 - Hunter

CMA Map: 9033-1S

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6432422.000

Easting: 295117.000

Latitude: 32°13'34.2"S

Longitude: 150°49'32.8"E

GS Map: -

MGA Zone: 56

Coordinate Unknown

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	19.30	0			Unknown
1	1	Casing	Timber	0.00	0.00	1			

## Remarks

01/12/2009: Updated details as per existing data.

**\*\*\* End of GW080203 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW080205

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s):

Work Type: Well

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date: 15/05/2002

Final Depth: 8.50 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level 3.000  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
LT38 DP750926

Region: 20 - Hunter

CMA Map: 9033-1S

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6433341.000  
Easting: 296316.000

Latitude: 32°13'05.1"S  
Longitude: 150°50'19.3"E

GS Map: -

MGA Zone: 56

Coordinate Map Interpre  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	8.50	1			Unknown

\*\*\* End of GW080205 \*\*\*

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



# WaterNSW

## Work Summary

GW080206

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s):

Work Type: Well

Work Status:

Construct.Method:

Owner Type:

Commenced Date:

Completion Date:

Final Depth: 14.10 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level 5.100  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
LT39 DP750926

Region: 20 - Hunter

CMA Map: 9033-1S

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6433898.000  
Easting: 295772.000

Latitude: 32°12'46.7"S  
Longitude: 150°49'58.9"E

GS Map: -

MGA Zone: 56

Coordinate Unknown  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	14.10	1			Unknown

\*\*\* End of GW080206 \*\*\*

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW015880

Licence: 20CA208189

Licence Status: CURRENT

Authorised IRRIGATION

Purpose(s):

Intended Purpose(s): NOT KNOWN

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1954

Final Depth: 11.00 m

Drilled Depth: 11.00 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: BROOMFIELD 4 Logues Lane  
MUSWELLBROOK 2333 NSW

GWMA: 017 - HUNTER

GW Zone: -

Standing Water Level

(m):

Salinity Description: Good

Yield (L/s):

### Site Details

Site Chosen By:

County

Form A: BRISBANE

Licensed: BRISBANE

Parish

CLANRICARD

CLANRICARD

Cadastre

9

Whole Lot 4//784436

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER

Grid Zone:

Scale:

Area/District:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6427930.000

Easting: 298751.000

Latitude: 32°16'02.3"S

Longitude: 150°51'48.1"E

GS Map: -

MGA Zone: 56

Coordinate Source: GD.,ACC.MAP

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-0.30	-0.30	1829			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.40	10.90	1.50	Unconsolidated	0.30		12.63			

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------

(m)	(m)	(m)			
0.00	7.62	7.62	Soil Alluvial	Soil	
7.62	10.97	3.35	Gravel Water Supply	Gravel	

\*\*\* End of GW015880 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW019456

Licence: 20WA214881

Licence Status: CURRENT

Authorised Purpose(s): STOCK  
Intended Purpose(s): STOCK

Work Type: Bore

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:  
Completion Date: 01/02/1962

Final Depth: 76.20 m  
Drilled Depth: 76.20 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: N/A NSW

GWMA: -  
GW Zone: -

Standing Water Level  
(m):  
Salinity Description:  
Yield (L/s):

### Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: BRISBANE	ELLIS	193
Licensed: BRISBANE	ELLIS	Whole Lot
		193//750926

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6432872.000  
Easting: 293231.000

Latitude: 32°13'18.3"S  
Longitude: 150°48'21.1"E

GS Map: -

MGA Zone: 56

Coordinate PR.,ACC.MAP  
Source:

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	8.53	8.53	Clay Yellow	Clay	
8.53	12.19	3.66	Shale	Shale	
12.19	22.86	10.67	Shale	Shale	
22.86	23.47	0.61	Shale Grey	Shale	
23.47	25.30	1.83	Coal	Coal	
25.30	40.54	15.24	Shale Grey	Shale	
40.54	44.20	3.66	Shale	Shale	
44.20	44.81	0.61	Coal	Coal	
44.81	53.64	8.83	Shale	Shale	
53.64	76.20	22.56	Shale Grey	Shale	

**\*\*\* End of GW019456 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW026295

Licence: 20WA214944

Licence Status: CURRENT

Authorised Purpose(s): GENERAL USE  
Intended Purpose(s): GENERAL USE

Work Type: Bore

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:  
Completion Date: 01/04/1967

Final Depth: 103.00 m  
Drilled Depth: 103.00 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: N/A NSW

Standing Water Level  
(m):  
Salinity Description:  
Yield (L/s):

GWMA: -  
GW Zone: -

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed: BRISBANE  
Parish  
ELLIS  
ELLIS  
Cadastre  
107  
Whole Lot 2//750926

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6435158.000  
Easting: 296564.000

Latitude: 32°12'06.3"S  
Longitude: 150°50'30.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	25.10	152			
1	1	Opening	Perforations	22.00	25.00	152		1	

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
96.60	101.50	4.90	(Unknown)	45.70		0.38			

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------



(m)	(m)	(m)			
0.00	0.91	0.91	Clay	Clay	
0.91	10.06	9.15	Sandstone	Sandstone	
10.06	13.11	3.05	Shale	Shale	
13.11	16.76	3.65	Sandstone	Sandstone	
16.76	19.81	3.05	Shale	Shale	
19.81	21.95	2.14	Sandstone	Sandstone	
21.95	28.04	6.09	Coal	Coal	
28.04	31.09	3.05	Sandstone	Sandstone	
31.09	32.92	1.83	Coal	Coal	
32.92	37.80	4.88	Sandstone	Sandstone	
37.80	39.32	1.52	Coal	Coal	
39.32	41.45	2.13	Sandstone	Sandstone	
41.45	43.28	1.83	Coal	Coal	
43.28	46.02	2.74	Shale	Shale	
46.02	46.33	0.31	Sandstone	Sandstone	
46.33	47.85	1.52	Coal	Coal	
47.85	50.90	3.05	Shale	Shale	
50.90	57.00	6.10	Sandstone	Sandstone	
57.00	60.05	3.05	Pipe Clay	Clay	
60.05	61.57	1.52	Sandstone	Sandstone	
61.57	63.40	1.83	Coal	Coal	
63.40	64.01	0.61	Sandstone	Sandstone	
64.01	65.53	1.52	Coal	Coal	
65.53	68.58	3.05	Pipe Clay	Clay	
68.58	77.72	9.14	Sandstone	Sandstone	
77.72	80.47	2.75	Shale	Shale	
80.47	89.61	9.14	Sandstone	Sandstone	
89.61	92.66	3.05	Shale	Shale	
92.66	95.10	2.44	Sandstone	Sandstone	
95.10	99.97	4.87	Coal Water Supply	Coal	
99.97	102.41	2.44	Sandstone Water Supply	Sandstone	
102.41	103.02	0.61	Shale	Shale	

\*\*\* End of GW026295 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW037479

Licence: 20WA207625

Licence Status: CURRENT

Authorised STOCK

Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status: Needs Reconditioning

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1932

Final Depth: 10.60 m

Drilled Depth: 10.70 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: MARYLANDS Kayuga Road  
Kayuga Via MUSWELLBROOK  
2333 NSW

GWMA: -  
GW Zone: -

Standing Water Level  
(m):

Salinity Description: invalid code  
Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed: BRISBANE

Parish  
ELLIS  
ELLIS

Cadastre  
4  
Whole Lot 4/1/2770

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6434630.000  
Easting: 299404.000

Latitude: 32°12'25.3"S  
Longitude: 150°52'18.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-0.50	-0.50	2438			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.10	10.60	1.50	Unconsolidated	9.40		35.36			

### Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	7.92	7.92	Soil	Soil	
7.92	10.67	2.75	Gravel Light Heavy Water Supply	Gravel	

Remarks

17/03/1980: DAMAGED IN FLOODS IN 1976  
17/03/1980: TIMBER REPLACED BY CEMENT LINERS-1976  
10/03/1981: WELL TURNS SALTY -'79 G/W RETURN

\*\*\* End of GW037479 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW037481

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): GENERAL USE

Work Type: Well

Work Status: Collapsed Bore

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date:

Final Depth: 15.20 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

GWMA:

GW Zone:

Standing Water Level

(m):

Salinity Description: Good

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
3

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-2N

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6428485.000

Easting: 298740.000

Latitude: 32°15'44.3"S

Longitude: 150°51'48.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Timber	-0.40	-0.40	2133			

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
12.10	12.10	0.00	(Unknown)	10.60		5.05			

## Remarks

18/02/1977: 1976-WELL COLLAPSED BELOW 10.7 M

**\*\*\* End of GW037481 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW042701

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status: Supply Obtained

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/07/1976

Final Depth: 14.00 m

Drilled Depth: 14.00 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L5 (3)

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6428579.000  
Easting: 298817.000

Latitude: 32°15'41.3"S  
Longitude: 150°51'51.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	0.00	0.00	1219			

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	9.75	9.75	Loam	Loam	
9.75	14.02	4.27	Gravel Water Supply	Gravel	

**\*\*\* End of GW042701 \*\*\***

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



# WaterNSW

## Work Summary

GW042927

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status: Supply Obtained

Construct.Method: Rotary

Owner Type: Private

Commenced Date:

Completion Date: 01/12/1976

Final Depth: 14.30 m

Drilled Depth: 14.30 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level

(m):

GWMA:

Salinity Description:

GW Zone:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
3

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6428485.000

Easting: 298740.000

Latitude: 32°15'44.3"S

Longitude: 150°51'48.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-1.10	-1.10	1219			

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	10.36	10.36	Loam	Loam	
10.36	14.33	3.97	Gravel	Gravel	

## Remarks

**\*\*\* End of GW042927 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW044553

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): WASTE DISPOSAL

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date:

Final Depth: 10.50 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

GWMA:  
GW Zone:

Standing Water Level  
(m):

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L3 DP521391 (3)

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6430784.000  
Easting: 299715.000

Latitude: 32°14'30.3"S  
Longitude: 150°52'27.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing		0.00	0.00	1219			

\*\*\* End of GW044553 \*\*\*

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW045435

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): GENERAL USE

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1958

Final Depth: 11.50 m

Drilled Depth: 11.60 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level

(m):

GWMA:

Salinity Description: Good

GW Zone:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L5 DP521391 (3)

Region: 20 - Hunter

CMA Map: 9033-1S

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6430813.000

Easting: 299636.000

Latitude: 32°14'29.3"S

Longitude: 150°52'24.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-0.90	-0.90	914			

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	11.55	11.55	Loam River Nominal Water Supply	Loam	

**\*\*\* End of GW045435 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW047216

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/10/1978

Final Depth: 11.30 m

Drilled Depth:

Contractor Name: (None)

Driller: Daryl George Wilson

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
CLANRICARD

Cadastre  
L641 (9)

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6428349.000  
Easting: 298141.000

Latitude: 32°15'48.3"S  
Longitude: 150°51'25.1"E

GS Map: -

MGA Zone: 56

Coordinate Source: GD.,ACC.MAP

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-0.90	12.20	1300			Seated on Bottom

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
8.20	11.30	3.10	(Unknown)	7.90		12.00			



**\*\*\* End of GW047216 \*\*\***

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW047277

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1976

Final Depth: 12.20 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:

GW Zone:

Salinity Description:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
3

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6428604.000

Easting: 298554.000

Latitude: 32°15'40.3"S

Longitude: 150°51'41.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Timber	0.00	0.00				

\*\*\* End of GW047277 \*\*\*

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

**GW047522**

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	7.92	7.92	Loam	Loam	
7.92	13.41	5.49	Gravel	Gravel	

**\*\*\* End of GW047522 \*\*\***

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW048754

Licence:

Licence Status:

Authorised Purpose(s):  
Intended Purpose(s): GENERAL USE

Work Type: Well  
Work Status: Supply Obtained  
Construct.Method:  
Owner Type: Private

Commenced Date: Final Depth: 12.40 m  
Completion Date: Drilled Depth: 12.40 m

Contractor Name: (None)  
Driller:  
Assistant Driller:

Property: Standing Water Level (m):  
GWMA: Salinity Description:  
GW Zone: Yield (L/s):

### Site Details

Site Chosen By:

County Parish Cadastre  
Form A: BRISBANE ELLIS 3  
Licensed:

Region: 20 - Hunter CMA Map: 9033-1S  
River Basin: 210 - HUNTER RIVER Grid Zone: Scale:  
Area/District:

Elevation: 0.00 m (A.H.D.) Northing: 6430502.000 Latitude: 32°14'39.3"S  
Elevation (Unknown) Easting: 299459.000 Longitude: 150°52'17.1"E  
Source:

GS Map: - MGA Zone: 56 Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	0.00	0.00	1067			

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
3.30	3.80	0.50	Unconsolidated	3.30					

### Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------



(m)	(m)	(m)			
0.00	10.70	10.70	Soil River Silt	Soil	
10.70	12.40	1.70	Gravel River Water Supply	Gravel	

\*\*\* End of GW048754 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	6.10	6.10	Topsoil Clay	Topsoil	
6.10	10.70	4.60	Clay	Clay	
10.70	11.60	0.90	Sandstone	Sandstone	
11.60	15.00	3.40	Shale	Shale	
15.00	15.60	0.60	Sandstone	Sandstone	
15.60	17.00	1.40	Shale	Shale	
17.00	18.00	1.00	Coal	Coal	
18.00	19.00	1.00	Water Supply	(Unknown)	
19.00	25.00	6.00	Shale	Shale	
25.00	26.00	1.00	Water Supply	(Unknown)	
26.00	43.00	17.00	Sandstone	Sandstone	
43.00	43.60	0.60	Water Supply	(Unknown)	
43.60	45.20	1.60	Coal	Coal	
45.20	51.80	6.60	Shale	Shale	

Remarks

17/03/1980: 6.1M WELL CONVERTED TO A BORE

\*\*\* End of GW049015 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW053487

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status:

Construct.Method: Rotary

Owner Type: Private

Commenced Date:

Completion Date: 01/09/1981

Final Depth: 15.20 m

Drilled Depth: 15.20 m

Contractor Name: (None)

Driller: Daryl George Wilson

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:  
GW Zone:

Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
3

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6430069.000  
Easting: 299363.000

Latitude: 32°14'53.3"S  
Longitude: 150°52'13.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	9.14	9.14	Loam	Loam	
9.14	15.24	6.10	Gravel	Gravel	

\*\*\* End of GW053487 \*\*\*

**Warning To Clients:** This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW053534

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status: Supply Obtained

Construct.Method: Rotary

Owner Type: Private

Commenced Date:

Completion Date: 01/09/1981

Final Depth: 15.00 m

Drilled Depth: 15.00 m

Contractor Name: (None)

Driller: Daryl George Wilson

Assistant Driller:

Property:

GWMA:

GW Zone:

Standing Water Level

(m):

Salinity Description: 501-1000 ppm

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L4 (3)

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6430628.000

Easting: 299588.000

Latitude: 32°14'35.3"S

Longitude: 150°52'22.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP

Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-1.00	15.00	1275			Cemented

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.00	15.00	4.00	Unconsolidated	4.00					

## Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------



(m)	(m)	(m)			
0.00	6.71	6.71	Loam	Loam	
6.71	14.63	7.92	Gravel Water Bearing	Gravel	

\*\*\* End of GW053534 \*\*\*

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW058147

Licence: 20WA215316

Licence Status: CURRENT

Authorised DOMESTIC,STOCK  
Purpose(s):  
Intended Purpose(s): STOCK, DOMESTIC

Work Type: Bore  
Work Status: Filled,Backfilled  
Construct.Method: Auger  
Owner Type: Private

Commenced Date:  
Completion Date: 01/04/1983

Final Depth: 26.00 m  
Drilled Depth: 26.00 m

Contractor Name: (None)  
Driller:  
Assistant Driller:

Property: WIRRIMBIRRA NSW  
GWMA: -  
GW Zone: -

Standing Water Level 20.000  
(m):  
Salinity Description:  
Yield (L/s):

## Site Details

Site Chosen By:

County	Parish	Cadastre
Form A: BRISBANE	ELLIS	3
Licensed: BRISBANE	ELLIS	Whole Lot //

Region: 20 - Hunter  
River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-2N  
Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6428796.000  
Easting: 297346.000

Latitude: 32°15'33.3"S  
Longitude: 150°50'55.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Backfill	Backfill	0.00	26.00	100			

## Remarks

12/11/2009: Updated details as per existing data.

**\*\*\* End of GW058147 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW058686

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): STOCK

Work Type: Well

Work Status: Supply Obtained

Construct.Method: Auger

Owner Type: Private

Commenced Date:

Completion Date: 01/03/1984

Final Depth: 11.90 m

Drilled Depth: 11.90 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

GWMA:

GW Zone:

Standing Water Level

(m):

Salinity Description:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
L6 DP2770 (4)

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation (Unknown)

Source:

Northing: 6434509.000

Easting: 299563.000

Latitude: 32°12'29.3"S

Longitude: 150°52'24.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete Cylinder	-1.00	11.90	1350			Seated on Bottom

## Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.30	11.90	2.60	Unconsolidated	9.30					

## Drillers Log

From	To	Thickness	Drillers Description	Geological Material	Comments
------	----	-----------	----------------------	---------------------	----------

(m)	(m)	(m)			
0.00	9.30	9.30	Soil Alluvial	Soil	
9.30	11.90	2.60	Gravel Water Supply	Gravel	

\*\*\* End of GW058686 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW061302

Licence: 20WA215409

Licence Status: CURRENT

Authorised STOCK,DOMESTIC

Purpose(s):

Intended Purpose(s): STOCK, DOMESTIC

Work Type: Bore

Work Status:

Construct.Method: Rotary Air

Owner Type: Private

Commenced Date:

Completion Date: 01/10/1985

Final Depth: 41.10 m

Drilled Depth: 41.10 m

Contractor Name: (None)

Driller:

Assistant Driller:

Property: CLENMORE Belgrave Road  
Kayuga Via MUSWELLBROOK  
2333 NSW

GWMA: -  
GW Zone: -

Standing Water Level  
(m):

Salinity Description:  
Yield (L/s):

### Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed: BRISBANE

Parish  
ELLIS  
ELLIS

Cadastre  
26  
Whole Lot  
26//750926

Region: 20 - Hunter

River Basin: 210 - HUNTER RIVER  
Area/District:

CMA Map: 9033-1S

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation (Unknown)  
Source:

Northing: 6433901.000  
Easting: 298396.000

Latitude: 32°12'48.3"S  
Longitude: 150°51'39.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

### Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Welded Steel	-0.30	41.10	165			Seated on Bottom

### Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
33.50	34.10	0.60	Fractured			0.22			
35.00	36.00	1.00	Fractured		10.70	0.76			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	4.60	4.30	Clay	Clay	
4.60	41.10	36.50	Shale Grey Water Supply	Shale	

\*\*\* End of GW061302 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.



# WaterNSW

## Work Summary

GW071295

Licence:

Licence Status:

Authorised Purpose(s):

Intended Purpose(s): IRRIGATION

Work Type: Well

Work Status:

Construct.Method:

Owner Type: Private

Commenced Date:

Completion Date: 01/01/1992

Final Depth: 12.70 m

Drilled Depth:

Contractor Name: (None)

Driller:

Assistant Driller:

Property:

Standing Water Level  
(m):

GWMA:

GW Zone:

Salinity Description:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
ELLIS

Cadastre  
22

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 140.00 m (A.H.D.)  
Elevation Est. Contour 8-15M.  
Source:

Northing: 6428484.000  
Easting: 298714.000

Latitude: 32°15'44.3"S  
Longitude: 150°51'47.1"E

GS Map: -

MGA Zone: 56

Coordinate GD.,ACC.MAP  
Source:

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Concrete	0.00	0.00	914			

\*\*\* End of GW071295 \*\*\*

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

**GW201518**

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
-------------	-----------	------------------	----------	---------------	---------------	----------------	----------------------	------------------	--------------------

72.00	72.10	0.10	Unknown	63.00	0.06		
-------	-------	------	---------	-------	------	--	--

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	3.00	2.70	Sandy Clay	Sandy Clay	
3.00	75.00	72.00	Sandstone, banded & fractured	Sandstone	

Remarks

22/11/2011: Form A Remarks:  
Nat Carling, 18-Apr-2012; GPS provided by client/driller.

\*\*\* End of GW201518 \*\*\*

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

# WaterNSW

## Work Summary

GW201519

Licence:

Licence Status:

Authorised

Purpose(s):

Intended Purpose(s): MONITORING BORE

Work Type: Vibrating Wire Piezometer

Work Status: Equipped

Construct.Method:

Owner Type: Mines

Commenced Date:

Completion Date: 22/11/2011

Final Depth: 276.58 m

Drilled Depth: 276.58 m

Contractor Name: (None)

Driller: Morrie Meagher

Assistant Driller: John Ratcliffe/Stephen Jones

Property:

Standing Water Level

(m):

GWMA:

Salinity Description:

GW Zone:

Yield (L/s):

## Site Details

Site Chosen By:

County  
Form A: BRISBANE  
Licensed:

Parish  
CLANRICARD

Cadastre  
3//998477

Region: 20 - Hunter

CMA Map: 9033-2N

River Basin: 210 - HUNTER RIVER  
Area/District:

Grid Zone:

Scale:

Elevation: 0.00 m (A.H.D.)  
Elevation Unknown  
Source:

Northing: 6429036.000  
Easting: 293476.000

Latitude: 32°15'23.0"S  
Longitude: 150°48'27.5"E

GS Map: -

MGA Zone: 56

Coordinate Source: GPS - Global

## Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	276.58	100			(Unknown)
1		Annulus	Cement Grout	0.00	276.58	100			PL:Reverse Circulated

## Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	3.00	2.70	Sandy Clay	Sandy Clay	
3.00	276.58	273.58	Sandstone, banded & fractured, with coal seams	Sandstone	

## Remarks

---

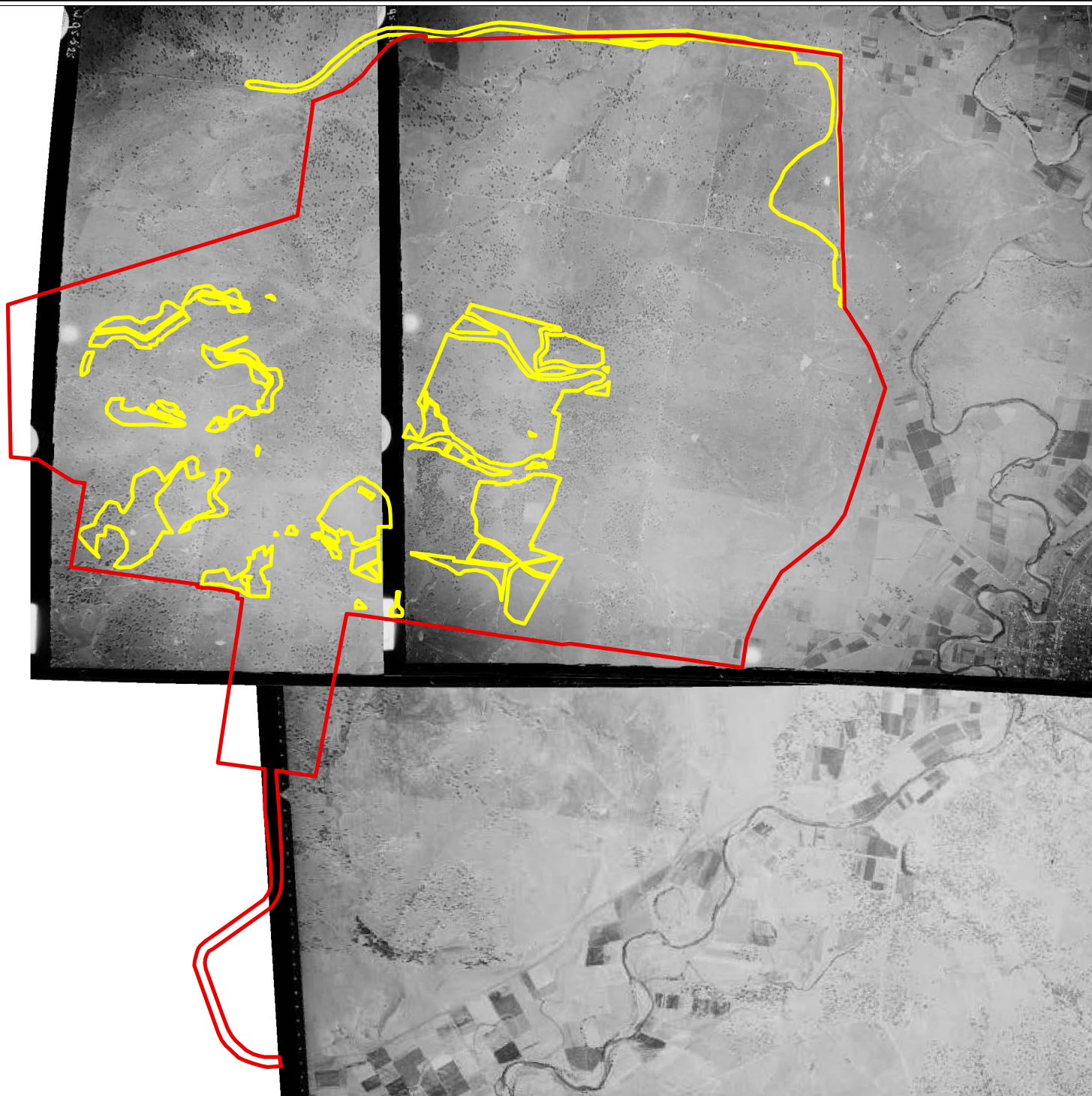
22/11/2011: Form A Remarks:

Nat Carling, 18-Apr-2012; GPS provided by driller/client.

**\*\*\* End of GW201519 \*\*\***

**Warning To Clients:** This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

## Appendix D Aerial Photographs



**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHenergy

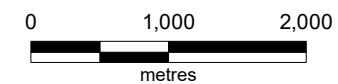
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



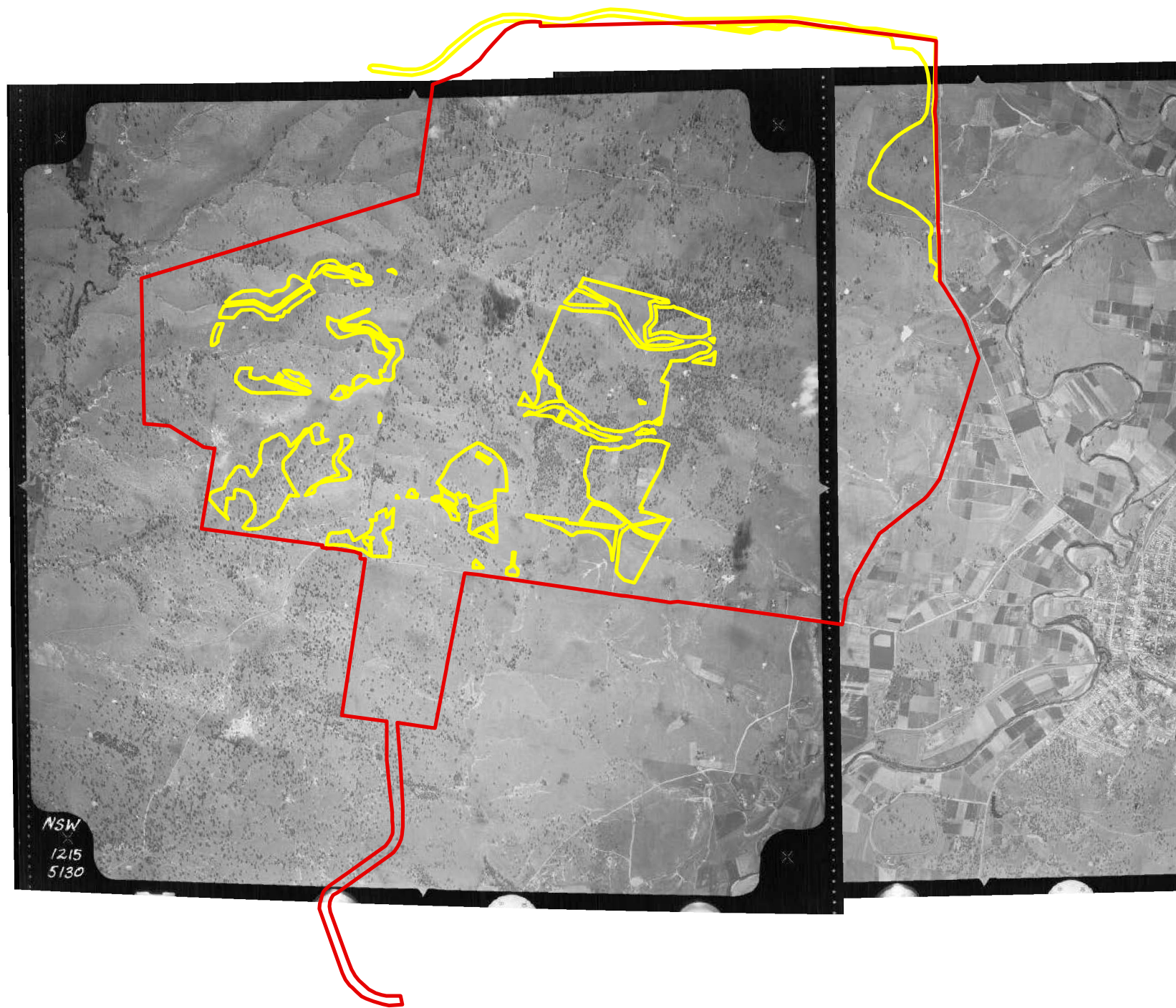
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 1958**

**FIGURE 1958**





**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHEnergy

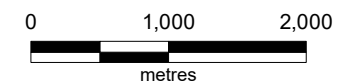
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



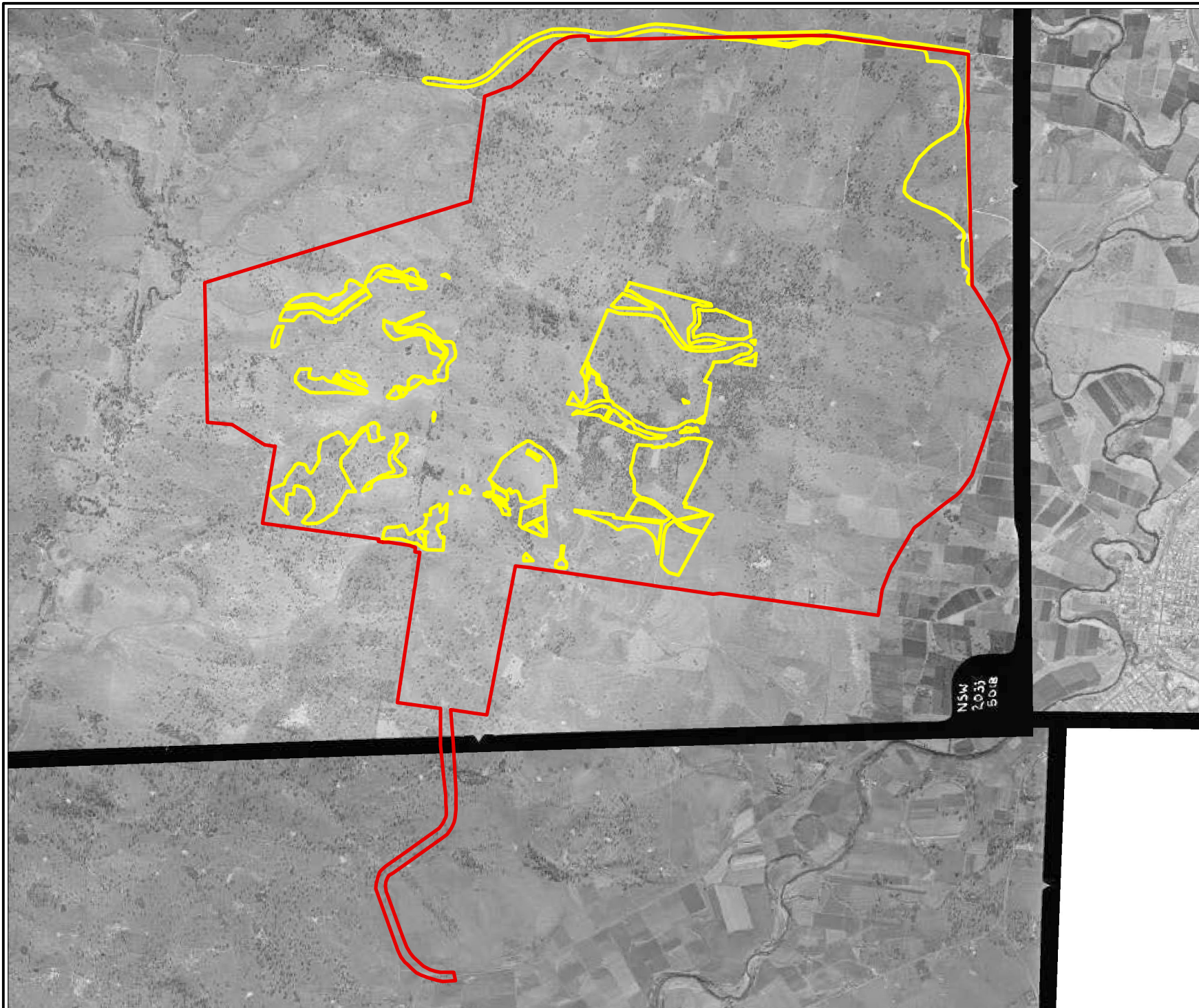
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 1964**

**FIGURE 1964**





**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHenergy

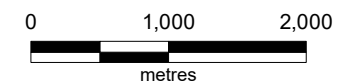
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000

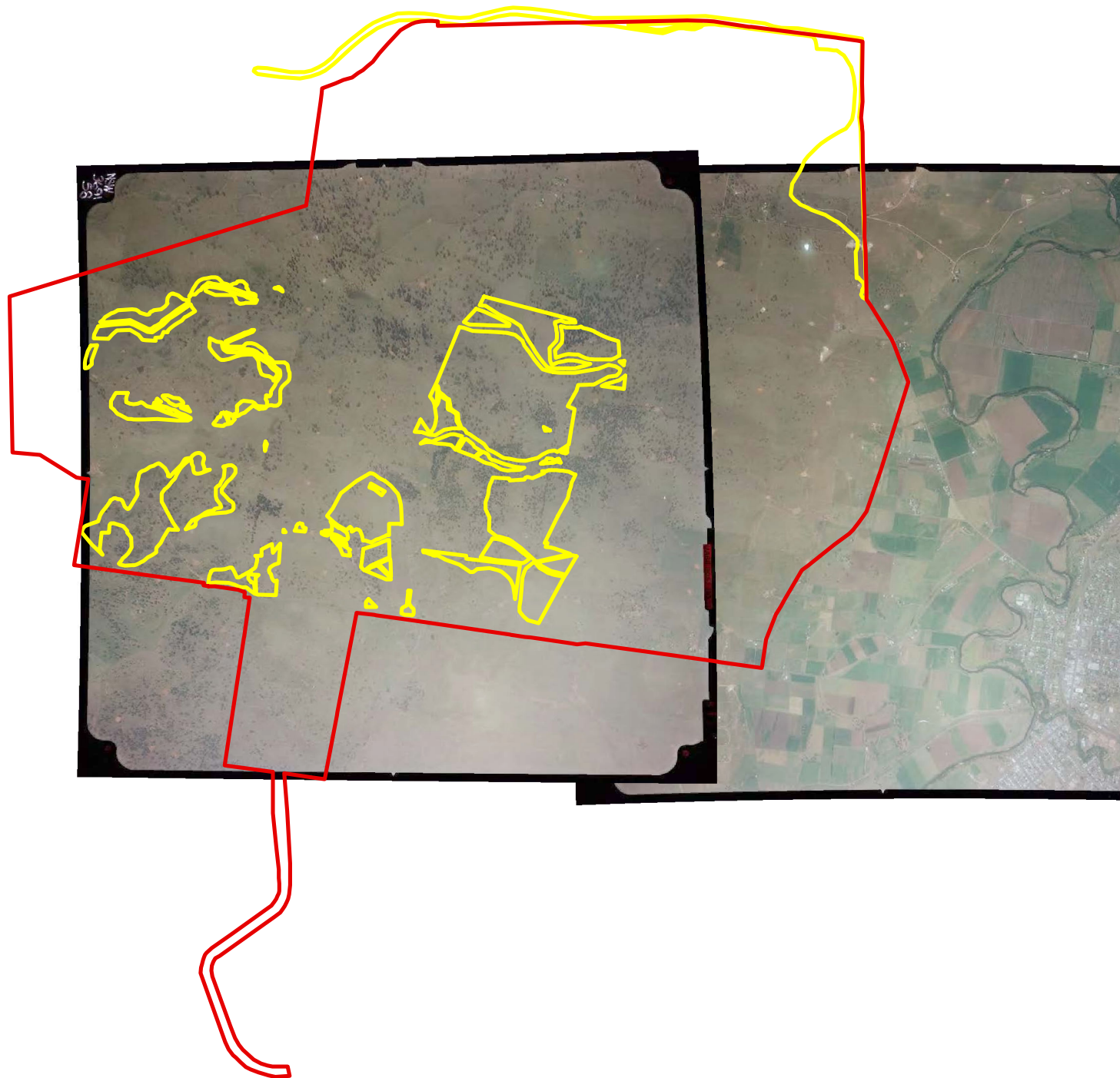


Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 1974**

**FIGURE 1974**



**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHEnergy

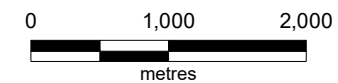
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



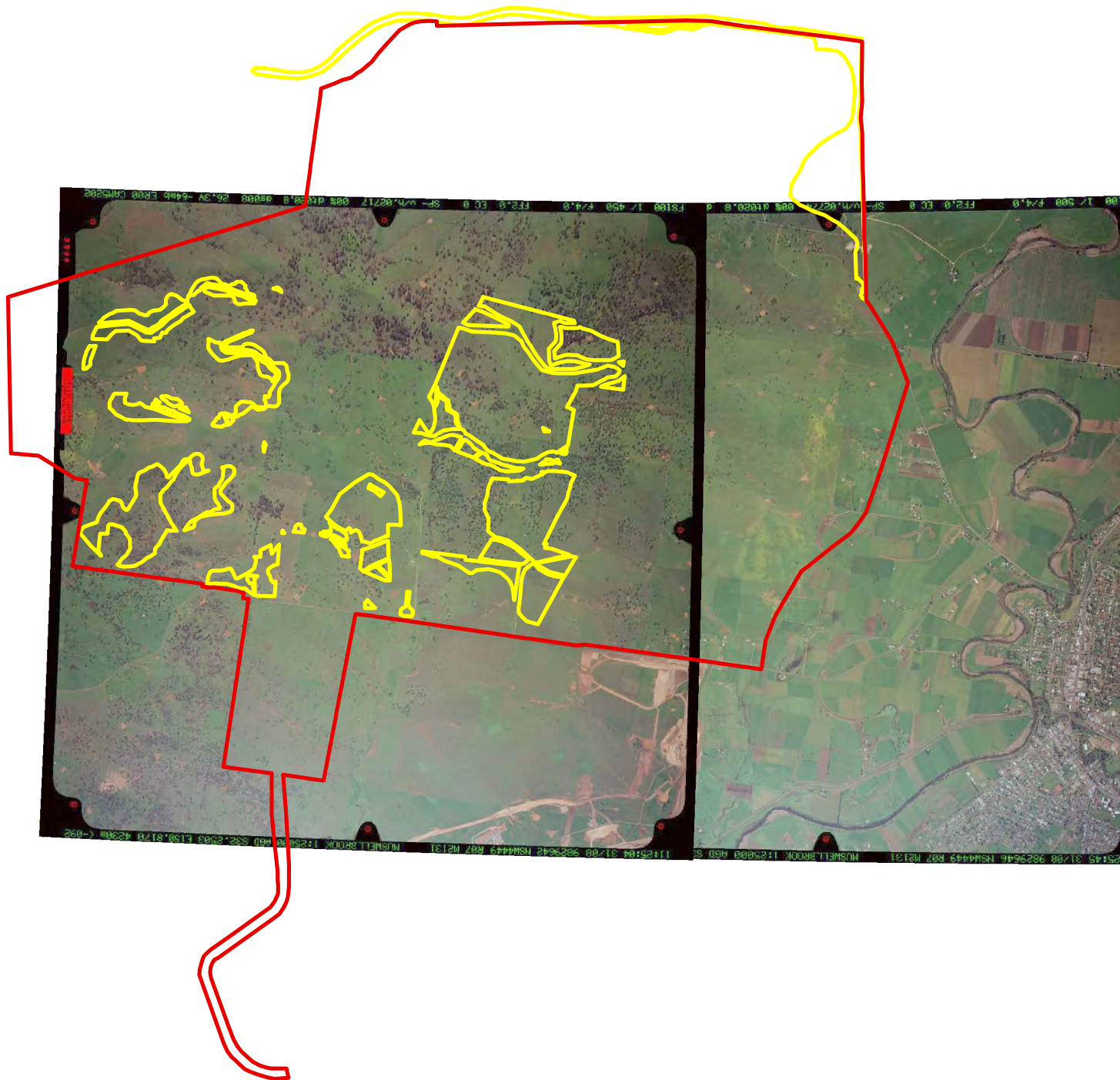
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 1989**

**FIGURE 1989**



**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHEnergy

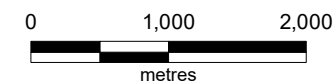
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW****HISTORICAL AERIAL  
IMAGERY 1998****FIGURE 1998**



**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHEnergy

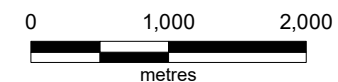
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



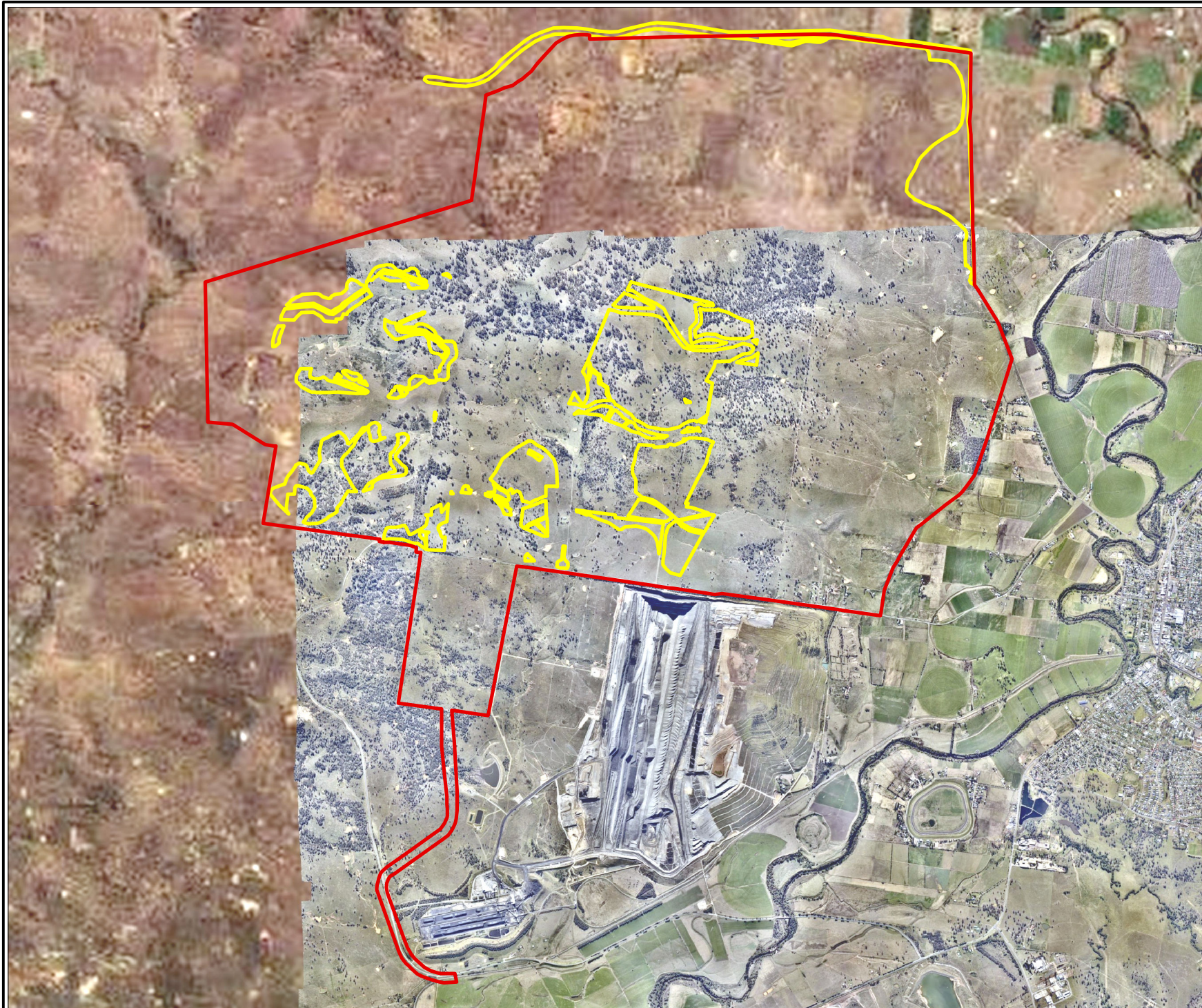
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 2003**

**FIGURE 2003**





**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHenergy

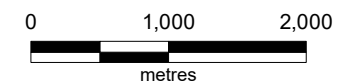
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



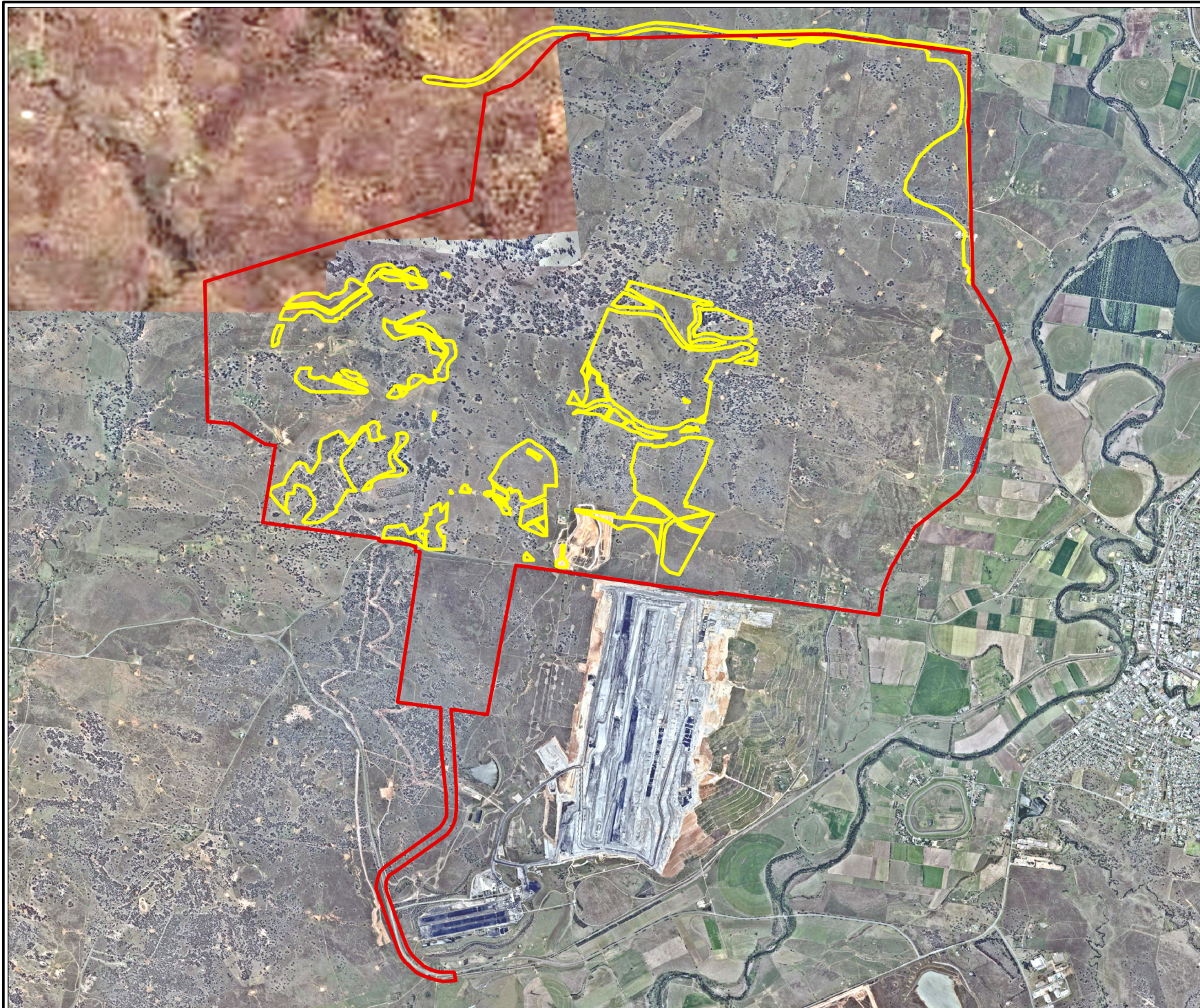
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 2014**

**FIGURE 2014**



**Legend:**

- ▮ Approximate Site Boundary
- ▮ Approximate Area of Focus



Job No: 55754

Client: MACHenergy

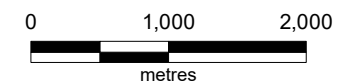
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

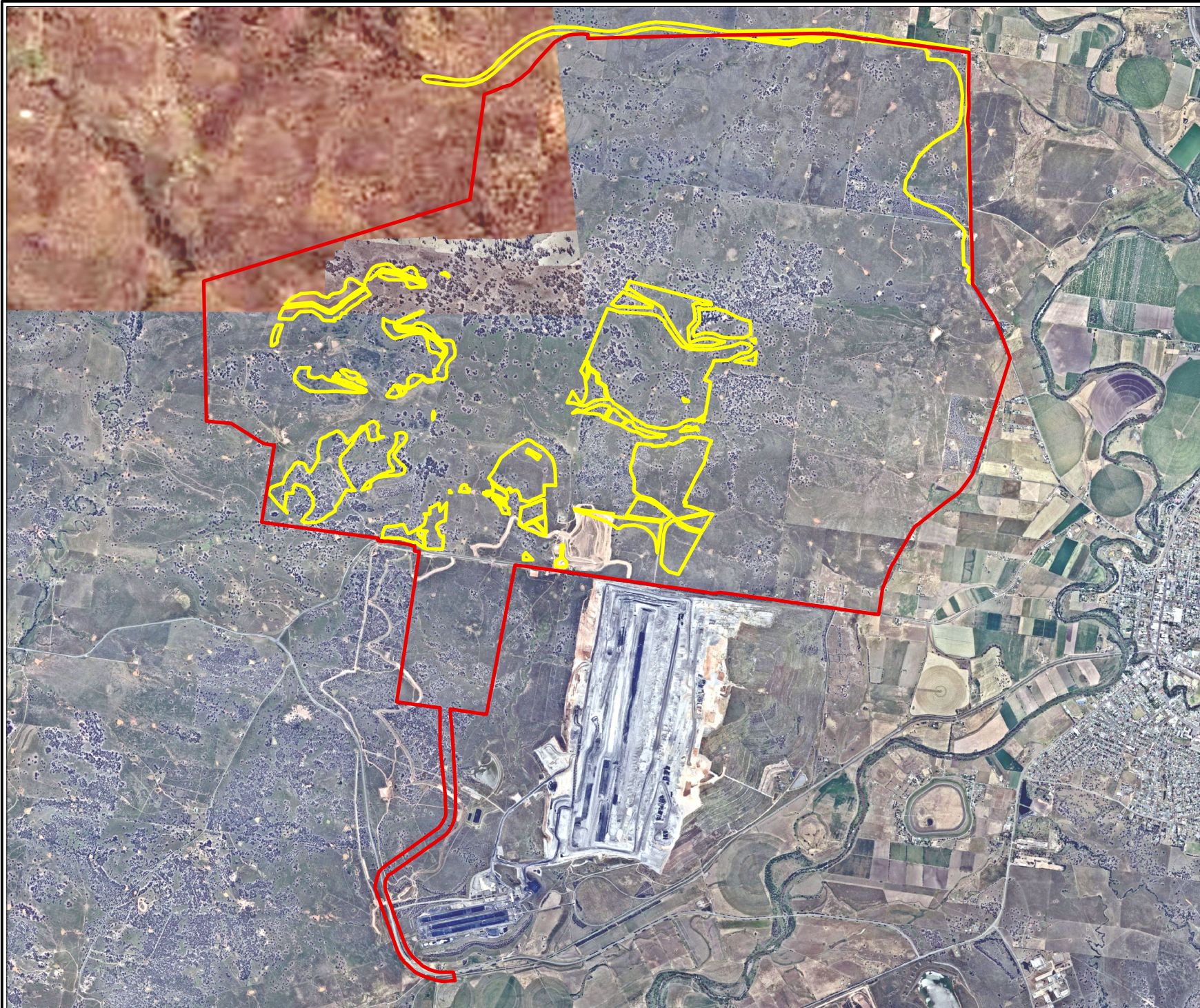
Scale 1:55,000





Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW****HISTORICAL AERIAL  
IMAGERY 2015****FIGURE 2015**



**Legend:**

-  Approximate Site Boundary
-  Approximate Area of Focus



Job No: 55754

Client: MACHEnergy

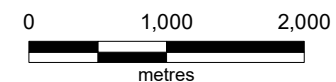
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

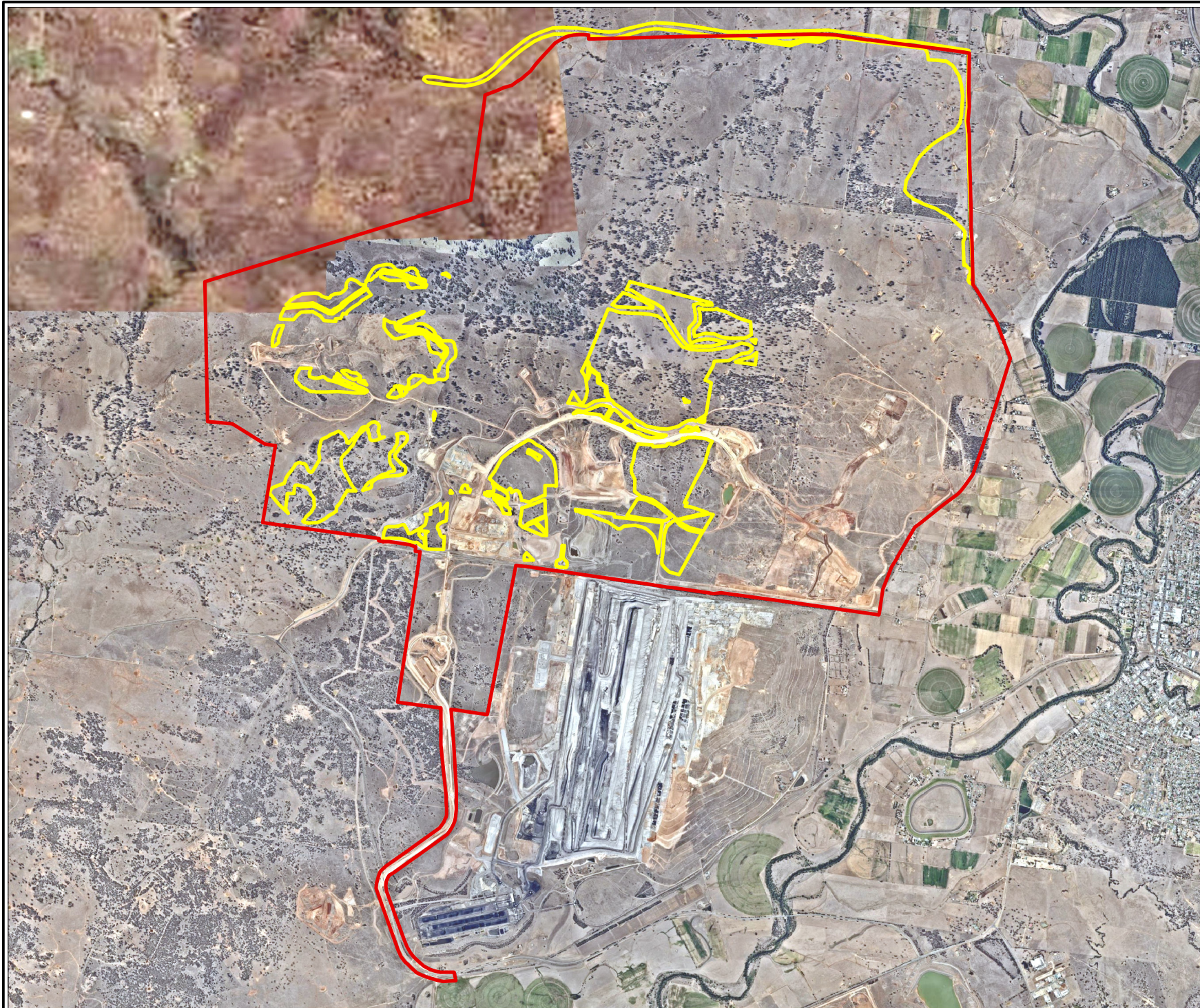
Scale 1:55,000



Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW****HISTORICAL AERIAL  
IMAGERY 2016****FIGURE 2016**



**Legend:**

- ▬ Approximate Site Boundary
- ▬ Approximate Area of Focus



Job No: 55754

Client: MACHEnergy

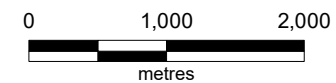
Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



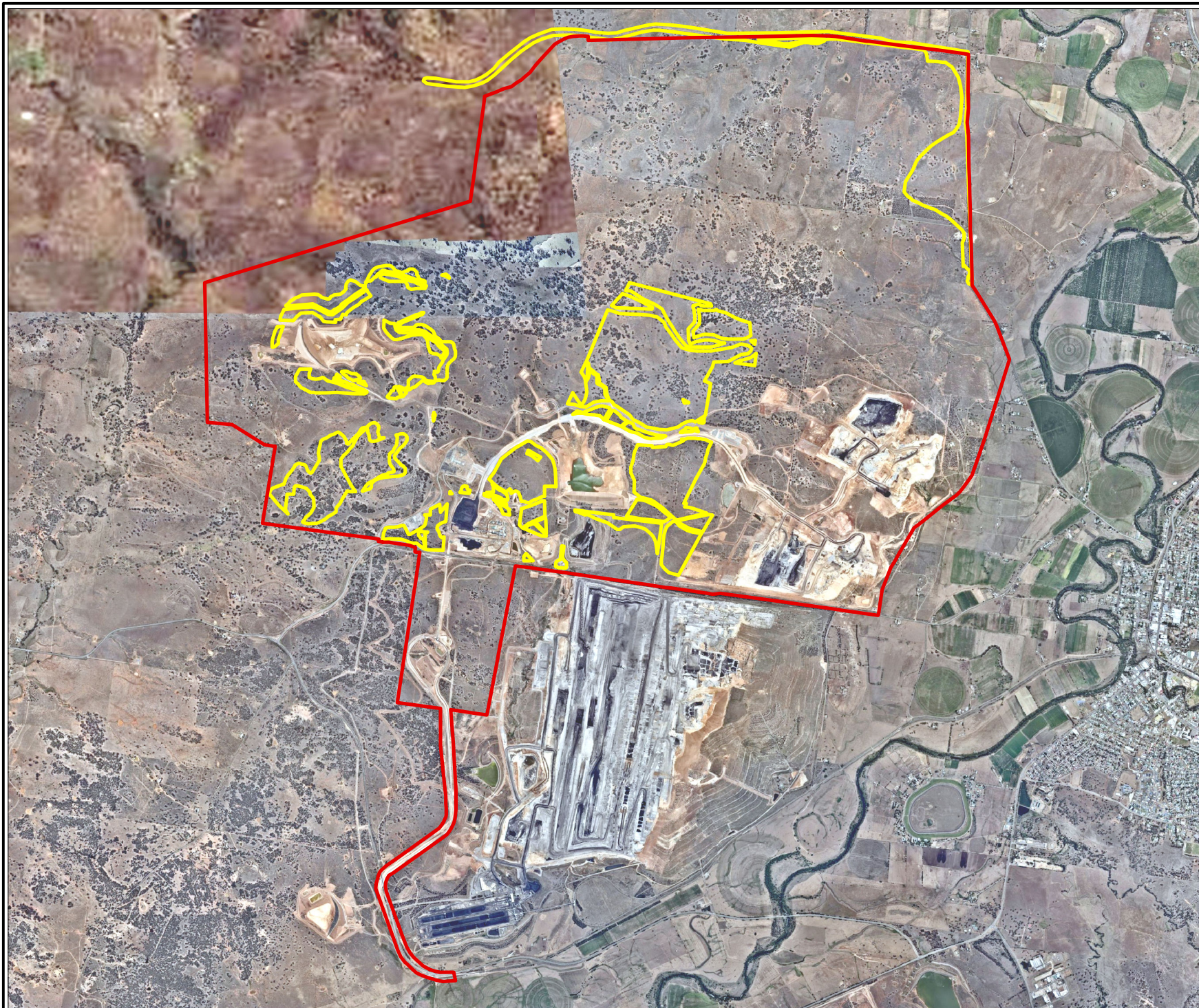
Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 2018**

**FIGURE 2018**



**Legend:**

- ▮ Approximate Site Boundary
- ▮ Approximate Area of Focus



Job No: 55754

Client: MACHenergy

Version: Aerial

Date 11/12/2019

Drawn By: AS

Checked By: RG

Scale 1:55,000



0 1,000 2,000  
metres

Coord. Sys. GDA 1994 MGA Zone 56

**Mount Pleasant, NSW**

**HISTORICAL AERIAL  
IMAGERY 2019**

**FIGURE 2019**



## **Appendix E Environment Protection Authority Records**

## Search results

Your search for: Suburb: CASTLE ROCK

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the [planning process](#).

More information about particular sites may be available from:

- The [POEO public register](#)
- The appropriate planning authority: for example, on a planning certificate issued by the local council under [section 149 of the Environmental Planning and Assessment Act](#).

See [What's in the record and What's not in the record](#).

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register: [POEO public register](#)

[Search Again](#)

[Refine Search](#)

### Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... [more search tips](#)

4 December 2019

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## Search results

Your search for: Suburb: KAYUGA

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

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[Search Again](#)

[Refine Search](#)

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... [more search tips](#)

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## Search results

Your search for: Suburb: MUSWELLBROOK

did not find any records in our database.

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[Search Again](#)

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... [more search tips](#)

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## Search results

Your search for: **General Search** with the following criteria

**Suburb** - Castle Rock

returned 0 result

Search Again

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## Search results

Your search for: **General Search** with the following criteria

**Suburb - Kayuga**

returned 0 result

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Number	Name	Location	Type	Status	Issued date	Distance from Site
779	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	POEO licence	Issued	20-Apr-00	16 km south-east
3085777210	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	04-Aug-15	
3085778145	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	16-Dec-15	
3085778136	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	16-Dec-15	
3085778796	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	04-Mar-16	
1535045	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	17-Mar-16	
1548850	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Feb-17	
1550795	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Compliance Audit	Complete	31-Mar-17	
1555659	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Sep-17	
1567964	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Compliance Audit	Complete	01-Aug-18	
1569903	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Oct-18	
3173527143	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	24-Jan-19	
3173527152	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	24-Jan-19	
1580485	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	03-Jun-19	
3173528216	AGL MACQUARIE PTY LIMITED	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	26-Aug-19	
1587972	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Nov-19	1 km north-east
4885	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	POEO licence	Issued	31-Jul-00	
1003003	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Dec-00	
1012865	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Nov-01	
1013447	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-01	
1016939	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	13-May-02	
1018878	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-Aug-02	
1025669	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	16-May-03	
1031281	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Nov-03	
1044827	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	04-Apr-05	
1067164	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Nov-06	
1104274	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Nov-09	
1502064	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Jan-12	
1534035	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-Oct-15	
1548286	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	30-Mar-17	
1569898	AQC DARTBROOK MANAGEMENT PTY LTD	STAIR STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	15-Mar-19	
11986	AUSGRID	41 Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	POEO licence	No longer in force	18-Aug-04	5.2 km south-east
1044566	AUSGRID	41 Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Feb-05	
1066187	AUSGRID	41 Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	17-May-07	
3173526712	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	Penalty Notice	Withdrawn		Neighbouring Site
6538	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	POEO licence	Issued	25-Aug-00	
1002950	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	06-Dec-00	
1010265	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	20-Aug-01	
1013310	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-01	
1025543	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	25-Mar-03	
1033267	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Dec-03	
1040603	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	14-Dec-04	

1069067	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	02-Apr-07	
1104519	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Nov-09	
1500472	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	08-Aug-11	
1506504	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Mar-13	
1516529	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Sep-13	
1518558	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Nov-13	
1522199	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Dec-14	
1529755	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-Apr-15	
1532909	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Aug-15	
1537388	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.91 Clean Up Notice	Issued	25-Jan-16	
1543826	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-Sep-16	
1544834	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	19-Dec-16	
1547942	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	22-Dec-16	
1551480	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Apr-17	
1553612	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	11-Jul-17	
1554482	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	22-Aug-17	
1561617	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Mar-18	
1567908	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	Compliance Audit	Complete	31-Jul-18	
1569902	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Oct-18	
1575780	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	15-Mar-19	
1586293	BENGALLA MINING COMPANY PTY LIMITED	BENGALLA ROAD VIA, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	02-Dec-19	
954	BORAL RESOURCES (COUNTRY) PTY. LIMITED	WALLARAH ROAD, MUSWELLBROOK, NSW 2333	POEO licence	No longer in force	22-Oct-99	6 km south-east
1009639	BORAL RESOURCES (COUNTRY) PTY. LIMITED	WALLARAH ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	10-Oct-01	
1111998	BUTTAI GRAVEL PTY LTD	"Bimbadeen" McCullys Gap Road, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Mar-10	11 km north-east
1524664	BUTTAI GRAVEL PTY LTD	"Bimbadeen" McCullys Gap Road, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Oct-14	
1926	HANSON CONSTRUCTION MATERIALS PTY LTD	LOT 30 CARRAMERE ROAD, MUSWELLBROOK, NSW 2333	POEO licence	No longer in force	25-May-00	6.5 km south-east
12828	HERMES RESOURCES PTY LTD	"Bimbadeen" McCullys Gap Road, MUSWELLBROOK, NSW 2333	POEO licence	Issued	11-Mar-08	11 km north-east
1579696	HERMES RESOURCES PTY LTD	"Bimbadeen" McCullys Gap Road, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	13-Aug-19	
11345	HUNTER AND NEW ENGLAND AREA HEALTH SERVICE	BRENTWOOD STREET, MUSWELLBROOK, NSW 2333	POEO licence	No longer in force	26-Apr-01	4.7 km east
1035709	HUNTER AND NEW ENGLAND AREA HEALTH SERVICE	BRENTWOOD STREET, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Apr-04	
3085772764	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Penalty Notice	Withdrawn		9.2 km south-east
113	HUNTER VALLEY ENERGY COAL PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	POEO licence	Surrendered	30-May-00	
11457	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	POEO licence	Issued	09-Oct-01	
1033345	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	23-Dec-03	
1034224	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Mar-04	
1039546	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	31-Aug-04	
1041057	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Oct-04	
1047821	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Jul-05	
1080256	HUNTER VALLEY ENERGY COAL PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Jan-08	
1097728	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-Nov-09	
1108379	HUNTER VALLEY ENERGY COAL PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.80 Surrender of a Licence	Issued	12-Nov-09	
1500568	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	08-Aug-11	

3085765293	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	23-Aug-12	
3085766741	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	31-Oct-12	
1508974	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Mar-13	
1516107	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Sep-13	
3085772874	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	12-Dec-13	
1522184	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	30-Oct-14	
1527411	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Compliance Audit	Complete	18-Dec-14	
1526528	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	14-Jan-15	
1527897	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Feb-15	
1529785	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-Apr-15	
1547149	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	20-Dec-16	
1548186	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	19-May-17	
1553710	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Aug-17	
3173524366	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	12-Jan-18	
1569901	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	17-Oct-18	
3173527931	HUNTER VALLEY ENERGY COAL PTY LTD	Thomas Mitchell Drive, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	23-Jul-19	
11498	HUNTER VALLEY FILTER SALES PTY. LIMITED	Unit 5, 234 Industrial Close, MUSWELLBROOK, NSW 2333	POEO licence	Surrendered	02-Nov-01	
1068678	HUNTER VALLEY FILTER SALES PTY. LIMITED	Unit 5, 234 Industrial Close, MUSWELLBROOK, NSW 2333	s.80 Surrender of a Licence	Issued	11-Jan-07	
20850	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	POEO licence	Issued	24-Nov-16	
1549577	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Feb-17	
1551444	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Apr-17	
1553615	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	11-Jul-17	
1555281	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Aug-17	
1560563	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Mar-18	
1569819	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	08-Oct-18	
1573657	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	01-May-19	
1588703	MACH ENERGY AUSTRALIA PTY LTD	1100 WYBONG ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Pending	18-Nov-19	
1002313	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-Nov-00	16 km south-east
1003163	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	06-Dec-00	
1013308	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-01	
1016493	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	22-Dec-03	
1046433	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-May-05	
1049911	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Jul-05	
1050842	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	22-Feb-06	
1066631	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	06-Nov-06	
1073184	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	25-May-07	
1075562	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-Sep-07	
1084432	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-Apr-08	
1093671	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	01-Dec-08	
1503268	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Jul-12	
1515755	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	20-Sep-13	
1519097	MACQUARIE GENERATION	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	31-Jan-14	



1323	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	POEO licence	Issued	18-Sep-00	11.3 km south-east
1003018	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Dec-00	
1008465	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	19-Jul-01	
1013305	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-01	
1024224	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	10-Feb-03	
1025260	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Feb-03	
1039953	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Sep-04	
1043446	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Feb-05	
1094057	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Jul-09	
1104324	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Nov-09	
1119501	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	18-Feb-11	
1501073	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Aug-11	
1502331	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Dec-11	
1510493	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Mar-13	
1516248	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Sep-13	
3085774854	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	19-Aug-14	
1522183	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Oct-14	
1525756	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Jan-15	
1528100	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Feb-15	
1528961	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	23-Mar-15	
1529346	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	16-Apr-15	
1532406	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Aug-15	
1536002	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Nov-16	
1550769	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	Compliance Audit	Complete	30-Mar-17	
1556974	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	25-Sep-17	
3173527336	MAXWELL VENTURES (MANAGEMENT) PTY LTD	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	Penalty Notice	Issued	28-Feb-19	
1002949	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Dec-00	(Hunter Valley Energy Coal) East
1003566	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	03-Jan-01	
1006699	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Aug-01	
1011935	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	15-Oct-01	
1013307	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-01	
1024138	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	25-Mar-03	
1034226	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Mar-04	
1057089	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-May-06	
1070151	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-Apr-07	
1078949	MT ARTHUR COAL PTY LIMITED	THOMAS MITCHELL DRIVE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Oct-07	
656	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	POEO licence	Issued	11-Sep-00	7 km east
1003032	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Dec-00	
1013330	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-01	
1017830	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	02-Jun-03	
1038787	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-Aug-04	
1042380	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	23-Dec-04	
1045160	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Mar-05	

1047505	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	12-May-05	
1089933	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	06-Aug-08	
1104191	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	17-Nov-09	
1501470	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	02-Dec-11	
1510495	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Mar-13	
1516260	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Sep-13	
1522371	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	16-Oct-14	
1526206	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	15-Dec-14	
1527535	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Jan-15	
1528595	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	27-Feb-15	
1546780	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	21-Nov-16	
1546918	MUSWELLBROOK COAL COMPANY LTD	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Aug-17	
1593	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	POEO licence	Issued	10-Aug-00	east
5980	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	POEO licence	Issued	22-Sep-00	east
1003017	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	07-Dec-00	
1010477	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Sep-01	
1013357	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Jun-02	
1027776	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Jun-03	
1028822	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	28-Aug-03	
1031291	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	19-Feb-04	
1047692	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	04-Jan-06	
1061985	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	24-Aug-06	
1069214	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Mar-07	
1075834	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	09-Nov-07	
1084659	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	26-Jun-08	
1095168	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	20-Feb-09	
1098514	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	04-Jun-09	
1102884	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	23-Jun-09	
1119470	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	15-Nov-10	
1511021	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	02-Jan-13	
1534225	MUSWELLBROOK SHIRE COUNCIL	COAL ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Jan-16	
1550862	MUSWELLBROOK SHIRE COUNCIL	Scott St , MUSWELLBROOK, NSW 2333	<b>s.91 Clean Up Notice</b>	Issued	07-Apr-17	east
1572749	MUSWELLBROOK SHIRE COUNCIL	SKELLATOR STOCK ROUTE, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Pending	21-Nov-18	
13410	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	POEO licence	Issued	02-Aug-11	11.4 km south-east
1512405	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	08-Mar-13	
3085772800	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	14-Feb-14	
3085775862	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	14-Jan-15	
1532459	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	05-Nov-15	
3085778493	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	25-Jan-16	
1547451	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	15-Jan-18	
3173524687	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	06-Feb-18	
3173528151	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	19-Aug-19	
3173528160	PATRICK WILD	LOT 354 UPPER HEBDEN ROAD, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	19-Aug-19	

11677	UPPER HUNTER COUNTY COUNCIL	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	POEO licence	Issued	21-Jun-02	
1067135	UPPER HUNTER COUNTY COUNCIL	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	13-Nov-06	
1528273	UPPER HUNTER COUNTY COUNCIL	NEW ENGLAND HIGHWAY, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	20-Nov-15	
12301	WILD GROUP PTY. LTD.	NEW ENGLAND HIGHWAY MUSWELLBROOK, MUSWELLBROOK, NSW 2333	POEO licence	Issued	15-Apr-05	11.4 km south-east
3085772104	WILD GROUP PTY. LTD.	NEW ENGLAND HIGHWAY MUSWELLBROOK, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	28-Aug-13	
3085775359	WILD GROUP PTY. LTD.	NEW ENGLAND HIGHWAY MUSWELLBROOK, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	24-Oct-14	
3085777595	WILD GROUP PTY. LTD.	NEW ENGLAND HIGHWAY MUSWELLBROOK, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	09-Sep-15	
3173526566	WILD GROUP PTY. LTD.	NEW ENGLAND HIGHWAY MUSWELLBROOK, MUSWELLBROOK, NSW 2333	<b>Penalty Notice</b>	Issued	29-Oct-18	
1544841	WILD GROUP PTY. LTD.	NEW ENGLAND HIGHWAY MUSWELLBROOK, MUSWELLBROOK, NSW 2333	s.58 Licence Variation	Issued	29-Aug-19	

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
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
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	150.9009981

## **Appendix F NSW and Australian Heritage Records**



# Search Results

34 results found.

<a href="#">Balmoral</a> 310 Denman Rd	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Barber Shop (former)</a> 7 Sydney St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Birralee</a> 33 Brentwood St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Brighton Villa</a> 12 Hunters Tce	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Eatons Hotel</a> 180-188 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Eatons Hotel Group</a> 164-188 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Edinglassie</a> 710 Denman Rd	Muswellbrook, NSW, Australia	( <a href="#">Indicative Place</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Hennor and Garden</a> 3 Lorne St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">House</a> 178 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">House - St Vincent De Paul Shop</a> 174-176 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)

<a href="#">House and Former Shop</a> 164-166 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Hunter River Road Bridge</a> Kayuga Rd	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Loxton House</a> 142-144 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Masonic Hall</a> 75 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Indicative Place</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Muswellbrook Post Office</a> 7 Bridge St	Muswellbrook, NSW, Australia	( <a href="#">Listed place</a> ) Commonwealth Heritage List
<a href="#">Overdene</a> 79 Bengalla Rd	Bengalla via Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Police Station</a> William St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Presbyterian Church (original building)</a> Hill St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Presbyterian Manse (former)</a> 106 Hill St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Railway Cottage and Adjacent Fig Tree</a> 27 Brook St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)
<a href="#">Railway Hotel</a> 10-14 Market St	Muswellbrook, NSW, Australia	( <a href="#">Registered</a> ) Register of the National Estate (Non-statutory archive)

<a href="#">Railway Station</a> Market St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">Royal Hotel (former)</a> 1 Sydney St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">Shop (former)</a> 172 Bridge St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">Skellatar</a> Tindale St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St Albans Anglican Church &amp; Grounds</a> Brook St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St Albans Precinct</a> Brook St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St Albans Rectory</a> Brook St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St Albans Sunday School</a> 15 HuntersTce	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St James Catholic Church</a> 4 Brook St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St Johns Presbyterian Church</a> Hill St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)
<a href="#">St Johns Presbyterian Church Precinct</a> Hill St	Muswellbrook, NSW, Australia	<a href="#">(Registered)</a> Register of the National Estate (Non-statutory archive)

[Trinity Uniting Church](#) 110 Bridge St

Muswellbrook,  
NSW, Australia

([Indicative Place](#))  
Register of the  
National Estate  
(Non-statutory  
archive)

[Weidmann Cottage \(former\)](#) 132-134 Bridge St

Muswellbrook,  
NSW, Australia

([Registered](#))  
Register of the  
National Estate  
(Non-statutory  
archive)

**Report Produced: Tue Dec 10 11:55:53 2019**

# Search for NSW heritage

[Return to search page where you can refine/broaden your search.](#)

## Statutory listed items

Information and items listed in the State Heritage Inventory come from a number of sources. This means that there may be several entries for the same heritage item in the database. For clarity, the search results have been divided into three sections.

- **Section 1** - contains Aboriginal Places declared by the **Minister for the Environment** under the National Parks and Wildlife Act. This information is provided by the Heritage Division.
- **Section 2** - contains heritage items listed by the **Heritage Council of NSW** under the NSW Heritage Act. This includes listing on the State Heritage Register, an Interim Heritage Order or protected under section 136 of the NSW Heritage Act. This information is provided by the Heritage Division.
- **Section 3** - contains items listed by **local councils** on Local Environmental Plans under the Environmental Planning and Assessment Act, 1979 and **State government agencies** under s.170 of the Heritage Act. This information is provided by local councils and State government agencies.

## Section 1. Aboriginal Places listed under the National Parks and Wildlife Act.

Your search did not return any matching results.

## Section 2. Items listed under the NSW Heritage Act.

Your search returned 6 records.

Item name	Address	Suburb	LGA	SHR
<a href="#">Eatons Hotel &amp; St Vincent De Paul Group</a>	178, 180-188 Bridge Street	Muswellbrook	Muswellbrook	00331
<a href="#">Edinglassie</a>	710 Denman Road	Muswellbrook	Muswellbrook	00170
<a href="#">Loxton House</a>	142-144 Bridge Street	Muswellbrook	Muswellbrook	00185
<a href="#">Muswellbrook Railway Station and yard group</a>	Main Northern railway	Muswellbrook	Muswellbrook	01208
<a href="#">St. Alban's Anglican Church</a>	Hunter Terrace	Muswellbrook	Muswellbrook	00458
<a href="#">Weidmann Cottage</a>	132 Bridge Street	Muswellbrook	Muswellbrook	00260

## Section 3. Items listed by Local Government and State Agencies.

Your search returned 126 records.

Item name	Address	Suburb	LGA	Information source



<b><u>Armitage House</u></b>	2 Armitage Avenue	Muswell brook	Muswe llbrook	LGOV
<b><u>Atherstone</u></b>	5 Sowerby Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Atherstone</u></b>	5 Sowerby Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Balmoral</u></b>	310 Denman Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Balmoral</u></b>	Denman Road	Muswell brook	Muswe llbrook	GAZ
<b><u>Barber Shop</u></b>	5 Sydney Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Beer Homestead</u></b>	721 Edderton Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Belmont</u></b>	721 Edderton Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Billiards Building</u></b>	36-40 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Birralee</u></b>	33 Brentwood Street (Cnr Brecht Street)	Muswell brook	Muswe llbrook	LGOV
<b><u>Birralee</u></b>	Brecht Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Blunt's Butter Factory</u></b>	179 Overton Road	Bengall a	Muswe llbrook	LGOV
<b><u>Brighton Villa</u></b>	12 Hunter Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Brighton Villa</u></b>	12 Hunter Terrace	Muswell brook	Muswe llbrook	LGOV
<b><u>Business Heritage Conservation Area</u></b>		Muswell brook	Muswe llbrook	LGOV
<b><u>Campbell &amp; Co Store, Former</u></b>	54	Muswell brook	Muswe llbrook	GAZ
<b><u>Campbell's Corner</u></b>	60 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Eatons Group</u></b>	164-166,172, 174, 178, 180 and 188 Bridge Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Eatons Group - house</u></b>	178 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Eatons Group - shop</u></b>	172 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Eatons Group - St Vincent de Paul Society building</u></b>	174-176 Bridge Street	Muswell brook	Muswe llbrook	LGOV

<b><u>Eatons Hotel</u></b>	182-184 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Edderton Homestead</u></b>	Edderton Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Edinglassie</u></b>	710 Denman Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Edward Higgins Building</u></b>	30-32 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Farrells Auto One</u></b>	5 Maitland Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Fitzgerald /Olympic Park Gates</u></b>	Wilkinson Avenue	Muswell brook	Muswe llbrook	LGOV
<b><u>Former barber shop</u></b>	7 Sydney Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former butter factory</u></b>	14-15 Aberdeen Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former Campbell's and Co store</u></b>	52 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former hospital</u></b>	37 Sowerby Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former picture theatre</u></b>	17 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former Presbyterian manse</u></b>	106 Hill Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former Royal Hotel</u></b>	1 Sydney Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Former St John's Presbyterian Church</u></b> <b><u>PREVIOUS/OTHER NAME St Johns Presb</u></b>	Hill Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Gelston</u></b>	409 Sandy Creek Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Henkor</u></b>	Maitland Road	Muswell brook	Muswe llbrook	GAZ
<b><u>Henkor</u></b>	18-20 Maitland Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Hospital, Former</u></b>	37 Sowerby Street	Muswell brook	Muswe llbrook	GAZ
<b><u>House</u></b>	5 Midanga Avenue	Muswell brook	Muswe llbrook	LGOV
<b><u>House</u></b>	9-11 Hunter Terrace	Muswell brook	Muswe llbrook	LGOV
<b><u>Item</u></b>	15 Hunter Terrace	Muswell	Muswe	GAZ

		brook	llbrook	
<b><u>Item</u></b>	27 Brovic Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Kayuga Bridge</u></b>	Kayuga Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Kayuga Bridge over Hunter River</u></b>	Kayuga Road	Muswell brook	Muswe llbrook	SGOV
<b><u>Kerb and Guttering - Brook Street</u></b>	Brook Street (Bridge Street to railway line)	Muswell brook	Muswe llbrook	LGOV
<b><u>Kerb and Guttering - Sydney Street</u></b>	Sydney Street (Maitland Street to Haydon Street)	Muswell brook	Muswe llbrook	LGOV
<b><u>Kildonan</u></b>	208 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Koobahla Villa</u></b>	Cook Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Koombahla Villa</u></b>	23 Cook Street (Cnr Carl Street)	Muswell brook	Muswe llbrook	LGOV
<b><u>Lime Kiln - E.I.E.I.O</u></b>	540 Sandy Creek Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Loxton House</u></b>	140-142 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Masonic Hall</u></b>		Muswell brook	Muswe llbrook	GAZ
<b><u>Masonic Lodge</u></b>	75 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Minch's Wine Shop</u></b>	18 Foley Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Ambulance</u></b>	Market, William Streets	Muswell brook	Muswe llbrook	SGOV
<b><u>Muswellbrook Brick Works</u></b>	Muswellbrook Common	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Bridge</u></b>	Kayuga Road	Muswell brook	Muswe llbrook	GAZ
<b><u>Muswellbrook Cemetery</u></b>	Bowman and Brecht Streets	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Conservation Area</u></b>		Muswell brook	Muswe llbrook	GAZ
<b><u>Muswellbrook High School</u></b>	King Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Hotel</u></b>	46 Market Street (Cnr Carl Street)	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Infants School</u></b>	Dolahenty Street (corner of	Muswell	Muswe	LGOV

	King Street)	brook	llbrook	
<b><u>Muswellbrook Police Station</u></b>	William Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Police Station , Former</u></b>	26 William Street	Muswell brook	Muswe llbrook	SGOV
<b><u>Muswellbrook Post Office</u></b>	7 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Railway Precinct</u></b>	Market Street	Muswell brook	Muswe llbrook	SGOV
<b><u>Muswellbrook Railway Precinct</u></b>	Market Street	Muswell brook	Muswe llbrook	SGOV
<b><u>Muswellbrook Railway Station</u></b>	Market Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Muswellbrook Railway Station</u></b>	Market Street	Muswell brook	Muswe llbrook	GAZ
<b><u>National Australia Bank building</u></b>	46-50 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Negoa Homestead</u></b>	Kayuga Road	Muswell brook	Muswe llbrook	GAZ
<b><u>Oak Milk Factory.</u></b>	Hunter Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Overdene</u></b>	Bengalla Road	Muswell brook	Muswe llbrook	GAZ
<b><u>Overdene</u></b>	79 Bengalla Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Plashett Homestead</u></b>	Edderton Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Police Station</u></b>	William Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Post Office</u></b>		Muswell brook	Muswe llbrook	GAZ
<b><u>Presbyterian Manse</u></b>	106 Hill Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Prince of Wales Tavern</u></b>	28-30 Sydney Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Railway Depot</u></b>	Victoria Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Railway depot (roundhouse).</u></b>	Bell Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Railway Hotel</u></b>	10-14 Market Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Railway signal box</u></b>	Market Street	Muswell	Muswe	LGOV

		brook	llbrook	
<b><u>Residential Heritage Conservation Area</u></b>		Muswell brook	Muswe llbrook	LGOV
<b><u>Rous Lench</u></b>	710 Denman Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Royal Hotel</u></b>	10-16 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Royal Hotel, Former</u></b>	1 Sydney Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Rural Bank Buidling_(Demolished - 1991)</u></b>	45 Bridge Street (Cnr Brook Street)	Muswell brook	Muswe llbrook	LGOV
<b><u>School of Arts/Town Hall</u></b>	3 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Shamrock Hotel</u></b>	30 William Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Shop façade</u></b>	34 Bridge Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Shop Front</u></b>		Muswell brook	Muswe llbrook	LGOV
<b><u>Shop front</u></b>	34 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Simpson Park and Reserve</u></b>	Market Street (corner of Sydney Street)	Muswell brook	Muswe llbrook	LGOV
<b><u>Skellatar - St Mary's Catholic School</u></b>	17 Fitzgerald Avenue	Muswell brook	Muswe llbrook	LGOV
<b><u>St Alban's Anglican Church</u></b>	20 Brook Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St Alban's Anglican Church Rectory</u></b>	Corner Hunter Terrace and Brook Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St Alban's Anglican Church Sunday School</u></b>	15 Hunter Terrace	Muswell brook	Muswe llbrook	LGOV
<b><u>St Alban's Group</u></b>	Brook Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St Alban's Precinct</u></b>	Brook Street and Hunter Terrace	Muswell brook	Muswe llbrook	GAZ
<b><u>St Alban's Precinct</u></b>	Brovic Street	Muswell brook	Muswe llbrook	GAZ
<b><u>St Alban's Precinct</u></b>	Hunter Terrace	Muswell brook	Muswe llbrook	GAZ
<b><u>St Heliers</u></b>	70 St Heliers Road	Muswell brook	Muswe llbrook	LGOV
<b><u>St Heliers Correctional Centre</u></b>	McCully's Gap Road	Muswell	Muswe	SGOV

		brook	llbrook	
<b><u>St Heliers Correctional Centre - Admin &amp; outbuildings</u></b>	McCully's Gap Road	Muswell brook	Muswe llbrook	SGOV
<b><u>St Heliers Correctional Centre - Officers Accommodation</u></b>	McCully's Gap Road	Muswell brook	Muswe llbrook	SGOV
<b><u>St Heliers Correctional Centre - Stables</u></b>	McCully's Gap Road	Muswell brook	Muswe llbrook	SGOV
<b><u>St James' Roman Catholic Church</u></b>	Brook Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St James' Roman Catholic Church Convent</u></b>	Brook Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St James' Roman Catholic Presbytery</u></b>	4 Sowerby Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St John's Presbyterian Church</u></b>	Hill Street	Muswell brook	Muswe llbrook	LGOV
<b><u>St. Heliers</u></b>	McCulleys Gap Road	Muswell brook	Muswe llbrook	GAZ
<b><u>St. James Roman Catholic Church including surrounds</u></b>	Brook Street	Muswell brook	Muswe llbrook	GAZ
<b><u>St. John's Presbyterian Church Precinct</u></b>	Hill Street	Muswell brook	Muswe llbrook	GAZ
<b><u>St. Mary's School Skelletar</u></b>	Tindale Street	Muswell brook	Muswe llbrook	GAZ
<b><u>Stone Bridge</u></b>	Grass Tree Road	Muswell brook	Muswe llbrook	GAZ
<b><u>Stone Bridge</u></b>	Muscle Creek Road	Muswell brook	Muswe llbrook	LGOV
<b><u>Taskers Pharmacy</u></b>	26 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Timber Cottage</u></b>	129 Hill Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Uniting Church</u></b>		Muswell brook	Muswe llbrook	GAZ
<b><u>Uniting Church - Upper Hunter Parish Trinity Uniting Church</u></b>	110 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Valley Hotel/Motel</u></b>	33 Sydney Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Weidmann Cottage</u></b>	126 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Westpac Bank building</u></b>	19 Bridge Street	Muswell brook	Muswe llbrook	LGOV
<b><u>Yammanie</u></b>	307 Denman Road	Muswell	Muswe	LGOV



		brook	llbrook	
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There was a total of 132 records matching your search criteria.

**Key:**

LGA = Local Government Area

GAZ= NSW Government Gazette (statutory listings prior to 1997), HGA = Heritage Grant Application, HS = Heritage Study, LGOV = Local Government, SGOV = State Government Agency.

**Note:** While the Heritage Division seeks to keep the Inventory up to date, it is reliant on State agencies and local councils to provide their data. Always check with the relevant State agency or local council for the most up-to-date information.

## **Appendix G Section 10.7 Certificates**

**PLANNING CERTIFICATE UNDER  
SECTION 10.7 ENVIRONMENTAL PLANNING  
AND ASSESSMENT ACT 1979**

**Enquiries** Planning  
**Contact** 02 6549 3700  
**Receipt no.** 1199195  
**Your reference** Application

**Date: 28 November 2019**

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Assessment: 126151

**Cert No: 21950**

**JBS&G  
Level 1  
50 Margaret Street  
SYDNEY NSW 2000**

Owner (as recorded by Council)  
**MACH Energy Australia Pty Ltd**

Property Description: 29 Lawries Lane KAYUGA 2333  
PT: 35 DP: 1076510

**Land to which the certificate relates**

The land to which this certificate relates, being the lot or lots described on the application form, is shown in the Council's records as being situated at the street address described above. The information contained in this certificate relates only to the lot or lots described on this certificate. Separate planning certificates can be obtained upon application for the other lots, those certificates may contain different information than is contained in this certificate.

<b>CERTIFICATE UNDER SECTION 10.7(2) ENVIRONMENTAL PLANNING &amp; ASSESSMENT ACT</b>
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**LOCAL ENVIRONMENTAL PLANS**

PLANNING INSTRUMENT	Muswellbrook Local Environmental Plan 2009
LAND USE ZONING	RU1 Primary Production

**PERMITTED WITHOUT CONSENT**

Extensive agriculture; Home occupations; Intensive plant agriculture

**PERMITTED WITH CONSENT**

Air transport facilities; Airstrips; Animal boarding or training establishments; Aquaculture; Camping grounds; Caravan parks; Cellar door premises; Cemeteries; Community facilities; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Educational establishments; Environmental facilities; Environmental protection works; Extractive industries; Farm buildings; Flood mitigation works; Forestry; Function centres; Group homes; Hazardous industries; Health consulting rooms; Heavy industrial storage establishments; Helipads; Highway service centres; Home-based child care; Home businesses; Home industries; Industrial retail outlets; Information and education facilities; Intensive livestock agriculture; Kiosks; Landscaping material supplies; Open cut mining; Places of public worship; Plant nurseries; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Research stations; Restaurants or cafes; Roads; Roadside stalls; Rural industries; Rural supplies; Rural worker's dwellings; Secondary dwellings; Service stations; Sewerage systems; Signage; Storage premises; Take away food and drink premises; Tourist and visitor accommodation; Transport depots; Truck depots; Turf farming; Veterinary hospitals; Waste disposal facilities; Water supply systems.

**Date: 28 November 2019**

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**Cert No: 21950**

**PROHIBITED**

Any development not specified above.

**MINIMUM LAND DIMENSIONS FOR THE ERECTION OF A DWELLING**

Under the provisions of the Muswellbrook Local Environmental Plan 2009, the minimum subdivision lot size is 80ha and is also subject to the provisions detailed below.

Land zoned RU1 Primary Production may, with the consent of Council, be subdivided for the purpose of primary production to create a lot less than the minimum lot size. However, such a lot cannot be created if an existing dwelling would, as the result of the subdivision, be situated on the lot. A dwelling cannot be erected on such a lot created.

Development consent must not be granted to the subdivision of a lot in a strata plan or community title scheme on land zoned RU1 Primary Production that is used, or proposed to be used, for residential accommodation or tourist and visitor accommodation.

Only one dwelling house may be erected on land zoned RU1 Primary Production only if the land is:

- (a) a lot created in accordance with clause 4.1 of the LEP 2009, or
- (b) a lot created before the LEP 2009 commenced and on which the erection of a dwelling house was permissible immediately before that commencement, or
- (c) a lot created before the LEP 2009 commenced that is at least the minimum lot size specified for that lot by the Lot Size Map, or
- (d) a lot for which subdivision approval was granted before the LEP 2009 commenced and on which the erection of a dwelling house would have been permissible immediately before that commencement, or
- (e) an existing holding.

NOTE: EXISTING HOLDING means all adjoining land, even if separated by a road or railway, held in the same ownership:

- (a) on 11 April 1974, and
- (b) at the time of lodging a development application for the erection of a dwelling house under this clause.

and includes any other land adjoining that land acquired by the owner since 11 April 1974.

NOTE: The owner in whose ownership all the land is at the time the application is lodged need not be the same person as the owner in whose ownership all the land was on the stated date.

**WHETHER THE LAND INCLUDES OR COMPRISES CRITICAL HABITAT**

The subject land has not been declared as critical habitat.

**WHETHER THE LAND IS IN A CONSERVATION AREA**

The subject land is not known to be in a conservation area.

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**WHETHER AN ITEM OF ENVIRONMENTAL HERITAGE IS SITUATED ON THE LAND**

The land is NOT affected by any known or listed heritage item.

**STATE ENVIRONMENTAL PLANNING POLICIES (EXEMPT & COMPLYING DEVELOPMENT CODES 2008)**

CERTIFICATE UNDER SECTION 10.7(2) IDENTIFYING THE INFORMATION SET OUT IN CLAUSE 3 OF SCHEDULE 4 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT REGULATIONS

**Part 3 General Housing Code**

Not applicable to the land to which this certificate relates.

**Part 3A Rural Housing Code**

YES. Complying development specified in the Rural Housing Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 4 Housing Alterations Code**

YES. Complying development specified in the Housing Alterations Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 4A General Development Code**

YES. Complying development specified in the General Development Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 5 Commercial and Industrial Alterations Code**

Not applicable to the land to which this certificate relates.

**Part 5A Commercial and Industrial (New Buildings and Additions) Code**

Not applicable to the land to which this certificate relates.

**Part 6 Subdivision Code**

YES. Complying development specified in the Subdivision Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 7 Demolition Code**

YES. Complying development specified in the Demolition Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

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## Part 8 Fire Safety Code

YES. Complying development specified in the Fire Safety Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

## **STATE ENVIRONMENTAL PLANNING POLICIES**

The following State Environmental Planning Policies apply to land within the Muswellbrook Shire LGA:-

No. 21. Caravan Parks - Ensures that where caravan parks or camping grounds are permitted under an environmental planning instrument, movable dwellings, as defined in the Local Government Act 1993, are also permitted. The policy ensures that development consent is required for new caravan parks and camping grounds and for additional long-term sites in existing caravan parks.

No. 33. Hazardous and Offensive Development - Provides new definitions for 'hazardous industry', 'hazardous storage establishment', 'offensive industry' and 'offensive storage establishment'. The definitions apply to all planning instruments, existing and future. The new definitions enable decisions to approve or refuse a development to be based on the merit of proposal. The consent authority must carefully consider the specifics of the case, the location and the way in which the proposed activity is to be carried out. The policy also requires specified matters to be considered for proposals that are 'potentially hazardous' or 'potentially offensive' as defined in the policy. For example, any application to carry out a potentially hazardous or potentially offensive development is to be advertised for public comment, and applications to carry out potentially hazardous development must be supported by a preliminary hazard analysis (PHA).

No. 36. Manufactured Home Estates - Helps establish well-designed and properly serviced manufactured home estates (MHEs) in suitable locations. Affordability and security of tenure for residents are important aspects. To enable the immediate development of estates, the policy allows MHEs to be located on certain land where caravan parks are permitted. There are however, criteria that a proposal must satisfy before the local council can approve development.

No. 44. Koala Habitat Protection - Encourages the proper conservation and management of areas of natural vegetation that provide habitat for koalas to ensure a permanent free-living population over their present range and reverse the current trend of koala population decline.

No. 55. Remediation of Land - Introduces state-wide planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals.

No. 64. Advertising and Signage - Aims to improve the amenity of urban and natural settings by managing the impact of outdoor advertising. The policy responds to growing concerns from the community, the advertising industry and local government that existing controls and guidelines were not effective. SEPP No. 64 offers the comprehensive provisions and consistent approach needed. SEPP 64 – Advertising and Signage: Explanatory Information should be read in conjunction with the policy.

No. 65. Design Quality of Residential Flat Development - Raises the design quality of residential flat development across the state through the application of a series of design principles. The policy provides for the establishment of Design Review Panels to provide independent expert advice to



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councils on the merit of residential flat development. The accompanying regulation requires the involvement of a qualified designer throughout the design, approval and construction stages.

SEPP (Housing for Seniors or People with a Disability) 2004 - Encourage the development of high quality accommodation for our ageing population and for people who have disabilities - housing that is in keeping with the local neighbourhood

SEPP (Building Sustainability Index: BASIX) 2004 - This SEPP operates in conjunction with Environmental Planning and Assessment Amendment (Building Sustainability Index: BASIX) Regulation 2004 to ensure the effective introduction of BASIX in NSW. The SEPP ensures consistency in the implementation of BASIX throughout the State by overriding competing provisions in other environmental planning instruments and development control plans, and specifying that SEPP 1 does not apply in relation to any development standard arising under BASIX.

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SEPP (Mining, Petroleum Production and Extractive Industries) 2007 - This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State. The Policy establishes appropriate planning controls to encourage ecologically sustainable development.

SEPP (Miscellaneous Consent Provisions) 2007 - Provides for the erection of temporary structures and the use of places of public entertainment while protecting public safety and local amenity. The SEPP supports the transfer of the regulation of places of public entertainment and temporary structures (such as tents, marquees and booths) from the Local Government Act 1993 to the Environmental Planning and Assessment Act 1979.

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SEPP (Affordable Rental Housing) 2009 – The aims of this policy are to provide a consistent planning regime for the provision of affordable rental housing; facilitate the effective delivery of new affordable rental housing by providing incentives by way of expanding zoning permissibility, floor space ratio bonuses and non-discretionary development standards; facilitate the retention and mitigate the loss of existing affordable rental housing; employ a balanced approach between obligations for retaining and mitigating the loss of existing affordable rental housing, and incentives for the development of new affordable rental housing; facilitate an expanding role for not-for-profit-providers of affordable rental housing; support local business centres by providing affordable rental housing for workers close to places of work; and facilitate the development of housing for the homeless and other disadvantaged people who may require support services, including group homes and supportive accommodation.

SEPP (State and Regional Development) 2011 – The aims of this policy are to identify development that is State significant development; identify development that is State significant infrastructure and critical State significant infrastructure; and confer functions on joint regional planning panels to determine development applications.

SEPP (Educational Establishments and Child Care Facilities) 2017 - The aim of this Policy is to facilitate the effective delivery of educational establishments and early education and care facilities across the State by, regulatory certainty and efficiency through a consistent planning regime for

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educational establishments and early education and care facilities, and simplifying and standardising planning approval pathways for educational establishments and early education and care facilities (including identifying certain development of minimal environmental impact as exempt development), and establishing consistent State-wide assessment requirements and design considerations for educational establishments and early education and care facilities to improve the quality of infrastructure delivered and to minimise impacts on surrounding areas.

SEPP(Vegetation in Non-Rural Areas) 2017 - The aims of this Policy are to protect the biodiversity values of trees and other vegetation in non-rural areas of the State, and to preserve the amenity of non-rural areas of the State through the preservation of trees and other vegetation.

SEPP (Concurrences) 2018 – Outlines the roles of the Planning Secretary acting as concurrence authority.

SEPP (Primary Production and Rural Development) 2019 - The aims of this Policy are to facilitate the orderly economic use and development of lands for primary production, to reduce land use conflict and sterilisation of rural land by balancing primary production, residential development and the protection of native vegetation, biodiversity and water resources, to identify State significant agricultural land for the purpose of ensuring the ongoing viability of agriculture on that land, having regard to social, economic and environmental considerations, to simplify the regulatory process for smaller-scale low risk artificial waterbodies, and routine maintenance of artificial water supply or drainage, in irrigation areas and districts, and for routine and emergency work in irrigation areas and districts, to encourage sustainable agriculture, including sustainable aquaculture, to require consideration of the effects of all proposed development in the State on oyster aquaculture, to identify aquaculture that is to be treated as designated development using a well-defined and concise development assessment regime based on environment risks associated with site and operational factors.

Further details regarding these State Environmental Planning Policies and the circumstances in which they may apply to the subject and can be found on the Department of Planning's website.

### **REGIONAL PLANNING INSTRUMENTS**

Hunter Regional Plan 2036  
Upper Hunter Strategic Land Use Regional 2012

### **DEVELOPMENT CONTROL PLANS**

This land is affected by the following Development Control Plans:  
Muswellbrook Shire Development Control Plan 2009

### **COASTAL PROTECTION**

The land IS NOT affected by the operations of Sections 38 and 39 of the *Coastal Protection Act 1979*.

### **MINE SUBSIDENCE**

The land IS WITHIN a proclaimed Mine Subsidence District under the Coal Mine Compensation Act 2017. The approval of Subsidence Advisory NSW is required for all subdivision and building, except for certain minor structures. Surface development controls are in place to prevent damage from old, current, or future mining. It is strongly recommended prospective purchasers consult with Subsidence Advisory NSW regarding mine subsidence and any surface development guidelines. Subsidence Advisory NSW can assist with information about mine subsidence and advise whether existing structures comply with the requirements of the Act.



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The Department of Mineral Resources has identified the lands may be subject to coal mining (either open cut mining or underground mining). Further enquiries should be directed to the Department of Mineral Resources.

## **ROAD WIDENING AND ROAD REALIGNMENT**

The subject land IS NOT affected by any road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993, or
- (b) Any environmental planning instrument, or
- (c) Any resolution of the council.

## **COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS**

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

## **FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION**

Development on the land or part of the land IS NOT subject to flood related development controls.

## **LAND RESERVED FOR ACQUISITION**

There are NOT any environmental planning instruments; deemed environmental planning instruments or draft environmental planning instruments applying to the land that provide for the acquisition of the land by a public authority, as referred to in section 27 of the Environmental Planning and Assessment Act 1979.

## **CONTRIBUTIONS PLANS**

The Muswellbrook Section 94 Contributions Plan 2001 and Muswellbrook Section 94A Contributions Plan 2009 apply to all land within the Muswellbrook Shire Local Government Area.

## **BIODIVERSITY CERTIFIED LAND**

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995)

## **BIOBANKING AGREEMENTS**

The land IS NOT affected by a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

## **NATIVE VEGETATION CLEARING SET ASIDES**

The land IS NOT affected by a set aside area under Section 60ZC of the *Local Land Services Act 2013*.

## **MATTERS RELATING TO THE MANAGEMENT OF CONTAMINATED LAND**

- (a) The land to which this certificate relates is NOT within land declared to be significantly contaminated land under the Contaminated Land Management Act 2008 at the date when the certificate is issued.

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- (b) The land to which this certificate relates is NOT subject to a management order under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (c) The land to which this certificate relates is NOT the subject of approved voluntary management proposal the subject of the Environment Protection Authority's agreement under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (d) The land to which this certificate relates is NOT the subject to an ongoing maintenance order under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (e) The land to which this certificate relates has NOT been the subject of a site audit statement provided to Muswellbrook Shire Council.

#### **BUSH FIRE PRONE LAND**

Rural Fire and Environmental Assessment Legislation Amendment Act 2002. This land is designated as bush fire prone land and any development of the land will require appropriate fire protection assessment prior to such development of the land. For further information concerning the bush fire status of the land, please contact Council on (02) 6549 3700.

#### **PROPERTY VEGETATION PLANS**

Council has NOT been notified of the existence of such a plan or if the land is land to which a property vegetation plan under the Native Vegetation Act 2003 applies.

#### **ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006**

Council has NOT been notified of any order made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.

#### **DIRECTIONS UNDER PART 3A**

There is NOT a direction by the Minister in force under section 75P (2) (c1) of the Act in relation to prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act.

#### **SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING**

There is NOT a current site compatibility certificate (of which the council is aware), issued under clause 25 of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

#### **SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE**

There is NOT a valid site compatibility certificate (of which the council is aware), issued under clause 19 of State Environmental Planning Policy (Infrastructure) 2007 in respect of proposed development on the land.

#### **SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING**

There is NOT a current site compatibility certificate for affordable rental housing (of which the council is aware), issued under clause 37 of State Environmental Planning Policy (Affordable Rental Housing) 2007 in respect of proposed development on the land.

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#### **PAPER SUBDIVISION INFORMATION**

There is NOT an adopted development plan or subdivision order that applies to the land.

#### **SITE VERIFICATION CERTIFICATE**

There is NOT a current site verification certificate (of which the council is aware), issued under clause 17C of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007, in relation to the land.

#### **LOOSE-FILL ASBESTOS INSULATION**

There are NO residential premises located on this land that are listed on the register that are required to be maintained under Division 1A of Part 8 of the *Home Building Act 1989*.

#### **AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS**

- (a) There are NO building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and
- (b) There are NO notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

The accuracy and currency of the details provided by agencies external to Council have not be verified by Muswellbrook Shire Council and should be verified by the applicant.

<b>ADDITIONAL INFORMATION PURSUANT TO SECTION 10.7(5) OF THE ACT</b>
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Council is unaware of any other relevant matters that may affect the land.

For further information, please contact  
Planning, Environment & Regulatory Services  
on (02) 6549 3700.

F Plesman  
**General Manager**

Per:



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**PLANNING CERTIFICATE UNDER  
SECTION 10.7 ENVIRONMENTAL PLANNING  
AND ASSESSMENT ACT 1979**

**Enquiries** Planning  
**Contact** 02 6549 3700  
**Receipt no.** 1199194  
**Your reference** Application

**Date: 29 November 2019**

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Assessment: 127647

**Cert No: 21952**

**JBS&G  
Level 1  
50 Margaret Street  
SYDNEY NSW 2000**

Owner (as recorded by Council)  
**MACH Energy Australia Pty Ltd**

Property Description: Ellis Parish COUNTY BRISBANE 2333  
LOT: 274 DP: 750926

**Land to which the certificate relates**

The land to which this certificate relates, being the lot or lots described on the application form, is shown in the Council's records as being situated at the street address described above. The information contained in this certificate relates only to the lot or lots described on this certificate. Separate planning certificates can be obtained upon application for the other lots, those certificates may contain different information than is contained in this certificate.

<b>CERTIFICATE UNDER SECTION 10.7(2) ENVIRONMENTAL PLANNING &amp; ASSESSMENT ACT</b>
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**LOCAL ENVIRONMENTAL PLANS**

PLANNING INSTRUMENT	Muswellbrook Local Environmental Plan 2009
LAND USE ZONING	E3 Environmental Management

**PERMITTED WITHOUT CONSENT**

Extensive agriculture; Home occupations

**PERMITTED WITH CONSENT**

Air transport facilities; Animal boarding or training establishments; Bed and breakfast accommodation; Camping grounds; Caravan parks; Cellar door premises; Dwelling houses; Eco-tourist facilities; Environmental facilities; Environmental protection works; Farm buildings; Farm stay accommodation; Flood mitigation works; Home-based child care; Home businesses; Home industries; Information and education facilities; Intensive plant agriculture; Oyster aquaculture; Pond-based aquaculture; Recreation areas; Recreation facilities (outdoor); Research stations; Roads; Rural worker's dwellings; Secondary dwellings; Sewerage systems; Tank-based aquaculture; Water supply systems

**PROHIBITED**

Industries; Multi dwelling housing; Residential flat buildings; Retail premises; Seniors housing; Service stations; Warehouse or distribution centres; Any other development not specified above.



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### **MINIMUM LAND DIMENSIONS FOR THE ERECTION OF A DWELLING**

Under the provisions of the Muswellbrook Local Environmental Plan 2009, the minimum subdivision lot size is 80ha and is also subject to the provisions detailed below.

Only one dwelling house may be erected on land zoned E3 Environmental Management only if the land is:

- (a) a lot created in accordance with clause 4.1 of the LEP 2009, or
- (b) a lot created before the LEP 2009 commenced and on which the erection of a dwelling house was permissible immediately before that commencement, or
- (c) a lot created before the LEP 2009 commenced that is at least the minimum lot size specified for that lot by the Lot Size Map, or
- (d) a lot for which subdivision approval was granted before the LEP 2009 commenced and on which the erection of a dwelling house would have been permissible immediately before that commencement, or
- (e) an existing holding.

NOTE: EXISTING HOLDING means all adjoining land, even if separated by a road or railway, held in the same ownership:

- (a) on 11 April 1974, and
- (b) at the time of lodging a development application for the erection of a dwelling house under this clause

and includes any other land adjoining that land acquired by the owner since 11 April 1974.

NOTE: The owner in whose ownership all the land is at the time the application is lodged need not be the same person as the owner in whose ownership all the land was on the stated date.

Development consent must not be granted to the subdivision of a community title scheme on land zoned E3 Environmental Management that is used, or proposed to be used, for residential accommodation or tourist and visitor accommodation.

### **WHETHER THE LAND INCLUDES OR COMPRISES CRITICAL HABITAT**

The subject land has not been declared as critical habitat.

### **WHETHER THE LAND IS IN A CONSERVATION AREA**

The subject land is not known to be in a conservation area.

### **WHETHER AN ITEM OF ENVIRONMENTAL HERITAGE IS SITUATED ON THE LAND**

The land is NOT affected by any known or listed heritage item.

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**STATE ENVIRONMENTAL PLANNING POLICIES (EXEMPT & COMPLYING DEVELOPMENT  
CODES 2008)**

CERTIFICATE UNDER SECTION 10.7(2) IDENTIFYING THE INFORMATION SET OUT IN CLAUSE  
3 OF SCHEDULE 4 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT REGULATIONS

**Part 3 General Housing Code**

Not applicable to the land to which this certificate relates.

**Part 3A Rural Housing Code**

Not applicable to the land to which this certificate relates.

**Part 4 Housing Alterations Code**

NO. Complying development specified in the Housing Alterations Code may NOT be carried out on this land pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

The land is excluded land; being land identified by an environmental planning instrument as being within an area of:-

TERRESTRIAL BIODIVERSITY LAND UNDER THE MUSWELLBROOK LOCAL ENVIRONMENTAL PLAN 2009

**Part 4A General Development Code**

NO. Complying development specified in the General Development Code may NOT be carried out on this land pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

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**Part 5 Commercial and Industrial Alterations Code**

Not applicable to the land to which this certificate relates.

**Part 5A Commercial and Industrial (New Buildings and Additions) Code**

Not applicable to the land to which this certificate relates.

**Part 6 Subdivision Code**

NO. Complying development specified in the Subdivision Code may NOT be carried out on this land pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

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TERRESTRIAL BIODIVERSITY LAND UNDER THE MUSWELLBROOK LOCAL ENVIRONMENTAL PLAN 2009

#### **Part 7 Demolition Code**

NO. Complying development specified in the Demolition Code may NOT be carried out on this land pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

The land is excluded land; being land identified by an environmental planning instrument as being within an area of:-

TERRESTRIAL BIODIVERSITY LAND UNDER THE MUSWELLBROOK LOCAL ENVIRONMENTAL PLAN 2009

#### **Part 8 Fire Safety Code**

YES. Complying development specified in the Fire Safety Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

### **STATE ENVIRONMENTAL PLANNING POLICIES**

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affordable rental housing; facilitate an expanding role for not-for-profit-providers of affordable rental housing; support local business centres by providing affordable rental housing for workers close to places of work; and facilitate the development of housing for the homeless and other disadvantaged people who may require support services, including group homes and supportive accommodation.

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SEPP(Vegetation in Non-Rural Areas) 2017 - The aims of this Policy are to protect the biodiversity values of trees and other vegetation in non-rural areas of the State, and to preserve the amenity of non-rural areas of the State through the preservation of trees and other vegetation.

SEPP (Concurrences) 2018 – Outlines the roles of the Planning Secretary acting as concurrence authority.

SEPP (Primary Production and Rural Development) 2019 - The aims of this Policy are to facilitate the orderly economic use and development of lands for primary production, to reduce land use conflict and sterilisation of rural land by balancing primary production, residential development and the protection of native vegetation, biodiversity and water resources, to identify State significant agricultural land for the purpose of ensuring the ongoing viability of agriculture on that land, having regard to social, economic and environmental considerations, to simplify the regulatory process for smaller-scale low risk artificial waterbodies, and routine maintenance of artificial water supply or drainage, in irrigation areas and districts, and for routine and emergency work in irrigation areas and districts, to encourage sustainable agriculture, including sustainable aquaculture, to require consideration of the effects of all proposed development in the State on oyster aquaculture, to identify aquaculture that is to be treated as designated development using a well-defined and concise development assessment regime based on environment risks associated with site and operational factors.

Further details regarding these State Environmental Planning Policies and the circumstances in which they may apply to the subject and can be found on the Department of Planning's website.

## **REGIONAL PLANNING INSTRUMENTS**

Hunter Regional Plan 2036  
Upper Hunter Strategic Land Use Regional 2012

## **DEVELOPMENT CONTROL PLANS**

This land is affected by the following Development Control Plans:  
Muswellbrook Shire Development Control Plan 2009

Date: 29 November 2019

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Cert No: 21952

### **COASTAL PROTECTION**

The land IS NOT affected by the operations of Sections 38 and 39 of the *Coastal Protection Act 1979*.

### **MINE SUBSIDENCE**

The land IS NOT WITHIN a Mine Subsidence District proclaimed under section 15 of the Mine Subsidence Compensation Act, 1961.

### **ROAD WIDENING AND ROAD REALIGNMENT**

The subject land IS NOT affected by any road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act 1993, or
- (b) Any environmental planning instrument, or
- (c) Any resolution of the council.

### **COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS**

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

### **FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION**

Development on the land or part of the land IS NOT subject to flood related development controls.

### **LAND RESERVED FOR ACQUISITION**

There are NOT any environmental planning instruments; deemed environmental planning instruments or draft environmental planning instruments applying to the land that provide for the acquisition of the land by a public authority, as referred to in section 27 of the Environmental Planning and Assessment Act 1979.

### **CONTRIBUTIONS PLANS**

The Muswellbrook Section 94 Contributions Plan 2001 and Muswellbrook Section 94A Contributions Plan 2009 apply to all land within the Muswellbrook Shire Local Government Area.

### **BIODIVERSITY CERTIFIED LAND**

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995)

### **BIOBANKING AGREEMENTS**

The land IS NOT affected by a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995*.

### **NATIVE VEGETATION CLEARING SET ASIDES**

The land IS NOT affected by a set aside area under Section 60ZC of the *Local Land Services Act 2013*.



Date: 29 November 2019

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Cert No: 21952

#### **MATTERS RELATING TO THE MANAGEMENT OF CONTAMINATED LAND**

- (a) The land to which this certificate relates is NOT within land declared to be significantly contaminated land under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (b) The land to which this certificate relates is NOT subject to a management order under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (c) The land to which this certificate relates is NOT the subject of approved voluntary management proposal the subject of the Environment Protection Authority's agreement under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (d) The land to which this certificate relates is NOT the subject to an ongoing maintenance order under the Contaminated Land Management Act 2008 at the date when the certificate is issued.
- (e) The land to which this certificate relates has NOT been the subject of a site audit statement provided to Muswellbrook Shire Council.

#### **BUSH FIRE PRONE LAND**

Rural Fire and Environmental Assessment Legislation Amendment Act 2002. This land is designated as bush fire prone land and any development of the land will require appropriate fire protection assessment prior to such development of the land. For further information concerning the bush fire status of the land, please contact Council on (02) 6549 3700.

#### **PROPERTY VEGETATION PLANS**

Council has NOT been notified of the existence of such a plan or if the land is land to which a property vegetation plan under the Native Vegetation Act 2003 applies.

#### **ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006**

Council has NOT been notified of any order made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.

#### **DIRECTIONS UNDER PART 3A**

There is NOT a direction by the Minister in force under section 75P (2) (c1) of the Act in relation to prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act.

#### **SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING**

There is NOT a current site compatibility certificate (of which the council is aware), issued under clause 25 of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

#### **SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE**

There is NOT a valid site compatibility certificate (of which the council is aware), issued under clause 19 of State Environmental Planning Policy (Infrastructure) 2007 in respect of proposed development on the land.

Date: 29 November 2019

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Cert No: 21952

**SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING**

There is NOT a current site compatibility certificate for affordable rental housing (of which the council is aware), issued under clause 37 of State Environmental Planning Policy (Affordable Rental Housing) 2007 in respect of proposed development on the land.

**PAPER SUBDIVISION INFORMATION**

There is NOT an adopted development plan or subdivision order that applies to the land.

**SITE VERIFICATION CERTIFICATE**

There is NOT a current site verification certificate (of which the council is aware), issued under clause 17C of State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007, in relation to the land.

**LOOSE-FILL ASBESTOS INSULATION**

There are NO residential premises located on this land that are listed on the register that are required to be maintained under Division 1A of Part 8 of the *Home Building Act 1989*.

**AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS**

- (a) There are NO building product rectification order of which the council is aware that is in force in respect of the land and has not been fully complied with, and
- (b) There are NO notice of intention to make a building product rectification order of which the council is aware has been given in respect of the land and is outstanding.

The accuracy and currency of the details provided by agencies external to Council have not be verified by Muswellbrook Shire Council and should be verified by the applicant.

**ADDITIONAL INFORMATION PURSUANT TO SECTION 10.7(5) OF THE ACT**

Council is unaware of any other relevant matters that may affect the land.

For further information, please contact  
Planning, Environment & Regulatory Services  
on (02) 6549 3700.

F Plesman  
**General Manager**

Per:



**PLANNING CERTIFICATE UNDER  
SECTION 10.7 ENVIRONMENTAL PLANNING  
AND ASSESSMENT ACT 1979**

**Enquiries** Planning  
**Contact** 02 6549 3700  
**Receipt no.** 1199197  
**Your reference** Application

**Date: 28 November 2019**

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Assessment: 127647

**Cert No: 21951**

**JBS&G  
Level 1  
50 Margaret Street  
SYDNEY NSW 2000**

Owner (as recorded by Council)  
**MACH Energy Australia Pty Ltd**

Property Description: Ellis Parish COUNTY BRISBANE 2333  
PRT: 220 DP: 750926

**Land to which the certificate relates**

The land to which this certificate relates, being the lot or lots described on the application form, is shown in the Council's records as being situated at the street address described above. The information contained in this certificate relates only to the lot or lots described on this certificate. Separate planning certificates can be obtained upon application for the other lots, those certificates may contain different information than is contained in this certificate.

<b>CERTIFICATE UNDER SECTION 10.7(2) ENVIRONMENTAL PLANNING &amp; ASSESSMENT ACT</b>
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**LOCAL ENVIRONMENTAL PLANS**

PLANNING INSTRUMENT Muswellbrook Local Environmental Plan 2009

LAND USE ZONING RU1 Primary Production

**PERMITTED WITHOUT CONSENT**

Extensive agriculture; Home occupations; Intensive plant agriculture

**PERMITTED WITH CONSENT**

Air transport facilities; Airstrips; Animal boarding or training establishments; Aquaculture; Camping grounds; Caravan parks; Cellar door premises; Cemeteries; Community facilities; Crematoria; Depots; Dwelling houses; Eco-tourist facilities; Educational establishments; Environmental facilities; Environmental protection works; Extractive industries; Farm buildings; Flood mitigation works; Forestry; Function centres; Group homes; Hazardous industries; Health consulting rooms; Heavy industrial storage establishments; Helipads; Highway service centres; Home-based child care; Home businesses; Home industries; Industrial retail outlets; Information and education facilities; Intensive livestock agriculture; Kiosks; Landscaping material supplies; Open cut mining; Places of public worship; Plant nurseries; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Research stations; Restaurants or cafes; Roads; Roadside stalls; Rural industries; Rural supplies; Rural worker's dwellings; Secondary dwellings; Service stations; Sewerage systems; Signage; Storage premises; Take away food and drink premises; Tourist and visitor accommodation; Transport depots; Truck depots; Turf farming; Veterinary hospitals; Waste disposal facilities; Water supply systems.

**Date: 28 November 2019**

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**Cert No: 21951**

**PROHIBITED**

Any development not specified above.

**MINIMUM LAND DIMENSIONS FOR THE ERECTION OF A DWELLING**

Under the provisions of the Muswellbrook Local Environmental Plan 2009, the minimum subdivision lot size is 80ha and is also subject to the provisions detailed below.

Land zoned RU1 Primary Production may, with the consent of Council, be subdivided for the purpose of primary production to create a lot less than the minimum lot size. However, such a lot cannot be created if an existing dwelling would, as the result of the subdivision, be situated on the lot. A dwelling cannot be erected on such a lot created.

Development consent must not be granted to the subdivision of a lot in a strata plan or community title scheme on land zoned RU1 Primary Production that is used, or proposed to be used, for residential accommodation or tourist and visitor accommodation.

Only one dwelling house may be erected on land zoned RU1 Primary Production only if the land is:

- (a) a lot created in accordance with clause 4.1 of the LEP 2009, or
- (b) a lot created before the LEP 2009 commenced and on which the erection of a dwelling house was permissible immediately before that commencement, or
- (c) a lot created before the LEP 2009 commenced that is at least the minimum lot size specified for that lot by the Lot Size Map, or
- (d) a lot for which subdivision approval was granted before the LEP 2009 commenced and on which the erection of a dwelling house would have been permissible immediately before that commencement, or
- (e) an existing holding.

NOTE: EXISTING HOLDING means all adjoining land, even if separated by a road or railway, held in the same ownership:

- (a) on 11 April 1974, and
- (b) at the time of lodging a development application for the erection of a dwelling house under this clause.

and includes any other land adjoining that land acquired by the owner since 11 April 1974.

NOTE: The owner in whose ownership all the land is at the time the application is lodged need not be the same person as the owner in whose ownership all the land was on the stated date.

**WHETHER THE LAND INCLUDES OR COMPRISES CRITICAL HABITAT**

The subject land has not been declared as critical habitat.

**WHETHER THE LAND IS IN A CONSERVATION AREA**

The subject land is not known to be in a conservation area.

Date: 28 November 2019

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**WHETHER AN ITEM OF ENVIRONMENTAL HERITAGE IS SITUATED ON THE LAND**

The land is NOT affected by any known or listed heritage item.

**STATE ENVIRONMENTAL PLANNING POLICIES (EXEMPT & COMPLYING DEVELOPMENT CODES 2008)**

CERTIFICATE UNDER SECTION 10.7(2) IDENTIFYING THE INFORMATION SET OUT IN CLAUSE 3 OF SCHEDULE 4 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT REGULATIONS
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**Part 3 General Housing Code**

Not applicable to the land to which this certificate relates.

**Part 3A Rural Housing Code**

YES. Complying development specified in the Rural Housing Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 4 Housing Alterations Code**

YES. Complying development specified in the Housing Alterations Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 4A General Development Code**

YES. Complying development specified in the General Development Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 5 Commercial and Industrial Alterations Code**

Not applicable to the land to which this certificate relates.

**Part 5A Commercial and Industrial (New Buildings and Additions) Code**

Not applicable to the land to which this certificate relates.

**Part 6 Subdivision Code**

YES. Complying development specified in the Subdivision Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

**Part 7 Demolition Code**

YES. Complying development specified in the Demolition Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

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## Part 8 Fire Safety Code

YES. Complying development specified in the Fire Safety Code may be carried out on this land in certain circumstances pursuant to Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

## STATE ENVIRONMENTAL PLANNING POLICIES

The following State Environmental Planning Policies apply to land within the Muswellbrook Shire LGA:-

No. 21. Caravan Parks - Ensures that where caravan parks or camping grounds are permitted under an environmental planning instrument, movable dwellings, as defined in the Local Government Act 1993, are also permitted. The policy ensures that development consent is required for new caravan parks and camping grounds and for additional long-term sites in existing caravan parks.

No. 33. Hazardous and Offensive Development - Provides new definitions for 'hazardous industry', 'hazardous storage establishment', 'offensive industry' and 'offensive storage establishment'. The definitions apply to all planning instruments, existing and future. The new definitions enable decisions to approve or refuse a development to be based on the merit of proposal. The consent authority must carefully consider the specifics of the case, the location and the way in which the proposed activity is to be carried out. The policy also requires specified matters to be considered for proposals that are 'potentially hazardous' or 'potentially offensive' as defined in the policy. For example, any application to carry out a potentially hazardous or potentially offensive development is to be advertised for public comment, and applications to carry out potentially hazardous development must be supported by a preliminary hazard analysis (PHA).

No. 36. Manufactured Home Estates - Helps establish well-designed and properly serviced manufactured home estates (MHEs) in suitable locations. Affordability and security of tenure for residents are important aspects. To enable the immediate development of estates, the policy allows MHEs to be located on certain land where caravan parks are permitted. There are however, criteria that a proposal must satisfy before the local council can approve development.

No. 44. Koala Habitat Protection - Encourages the proper conservation and management of areas of natural vegetation that provide habitat for koalas to ensure a permanent free-living population over their present range and reverse the current trend of koala population decline.

No. 55. Remediation of Land - Introduces state-wide planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals.

No. 64. Advertising and Signage - Aims to improve the amenity of urban and natural settings by managing the impact of outdoor advertising. The policy responds to growing concerns from the community, the advertising industry and local government that existing controls and guidelines were not effective. SEPP No. 64 offers the comprehensive provisions and consistent approach needed. SEPP 64 – Advertising and Signage: Explanatory Information should be read in conjunction with the policy.

No. 65. Design Quality of Residential Flat Development - Raises the design quality of residential flat development across the state through the application of a series of design principles. The policy provides for the establishment of Design Review Panels to provide independent expert advice to



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councils on the merit of residential flat development. The accompanying regulation requires the involvement of a qualified designer throughout the design, approval and construction stages.

SEPP (Housing for Seniors or People with a Disability) 2004 - Encourage the development of high quality accommodation for our ageing population and for people who have disabilities - housing that is in keeping with the local neighbourhood

SEPP (Building Sustainability Index: BASIX) 2004 - This SEPP operates in conjunction with Environmental Planning and Assessment Amendment (Building Sustainability Index: BASIX) Regulation 2004 to ensure the effective introduction of BASIX in NSW. The SEPP ensures consistency in the implementation of BASIX throughout the State by overriding competing provisions in other environmental planning instruments and development control plans, and specifying that SEPP 1 does not apply in relation to any development standard arising under BASIX.

SEPP (Infrastructure) 2007 - Provides a consistent planning regime for infrastructure and the provision of services across NSW, along with providing for consultation with relevant public authorities during the assessment process. The SEPP supports greater flexibility in the location of infrastructure and service facilities along with improved regulatory certainty and efficiency.

SEPP (Mining, Petroleum Production and Extractive Industries) 2007 - This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State. The Policy establishes appropriate planning controls to encourage ecologically sustainable development.

SEPP (Miscellaneous Consent Provisions) 2007 - Provides for the erection of temporary structures and the use of places of public entertainment while protecting public safety and local amenity. The SEPP supports the transfer of the regulation of places of public entertainment and temporary structures (such as tents, marquees and booths) from the Local Government Act 1993 to the Environmental Planning and Assessment Act 1979.

SEPP (Exempt and Complying Development Codes) 2008 – This policy streamlines assessment processes for development that complies with specified development standards. The policy provides exempt codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent.

SEPP (Affordable Rental Housing) 2009 – The aims of this policy are to provide a consistent planning regime for the provision of affordable rental housing; facilitate the effective delivery of new affordable rental housing by providing incentives by way of expanding zoning permissibility, floor space ratio bonuses and non-discretionary development standards; facilitate the retention and mitigate the loss of existing affordable rental housing; employ a balanced approach between obligations for retaining and mitigating the loss of existing affordable rental housing, and incentives for the development of new affordable rental housing; facilitate an expanding role for not-for-profit-providers of affordable rental housing; support local business centres by providing affordable rental housing for workers close to places of work; and facilitate the development of housing for the homeless and other disadvantaged people who may require support services, including group homes and supportive accommodation.

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The accuracy and currency of the details provided by agencies external to Council have not be verified by Muswellbrook Shire Council and should be verified by the applicant.

<b>ADDITIONAL INFORMATION PURSUANT TO SECTION 10.7(5) OF THE ACT</b>
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Council is unaware of any other relevant matters that may affect the land.

For further information, please contact  
Planning, Environment & Regulatory Services  
on (02) 6549 3700.

F Plesman  
**General Manager**

Per:

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B	1 x electronic	Resource Strategies	1/04/2020
C	1 x electronic	Resource Strategies	16/04/2020
D	1 x electronic	Resource Strategies	10/08/2020

#### Document Status

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
A	Rachel Gray	Seth Molinari	DRAFT for client comment		16/01/2020
B	Rachel Gray	Seth Molinari	DRAFT for client comment		1/04/2020
C	Rachel Gray	Seth Molinari	DRAFT for client comment		16/04/2020
D	Rachel Gray	Seth Molinari	FINAL DRAFT for client comment		10/08/2020



