



Premise

TERRAIN SOLAR

Marulan Solar Farm

ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT (ACHAR)




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ABBREVIATIONS

ACHAR	Aboriginal Cultural Heritage Assessment Report
ACHMP	Aboriginal Cultural Heritage Management Plan
AHIMS	Aboriginal Heritage Information Management System
ACHCRs	Aboriginal Cultural Heritage Consultation Requirements for Proponents.
BESS	Battery Energy Storage System
Code of Practice	Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales under Part 6 NPW Act. Issued by DECCW in 2010, the Code of Practice is a set of guidelines that allows limited test excavation without the need to apply for an AHIP. The test excavation program for this assessment was conducted under the Code of Practice.
DECCW	Department of Environment Climate Change and Water
DPE	NSW Department of Planning and Environment
EP&A Act	<i>Environmental Planning and Assessment Act</i>
GMC	Goulburn-Mulwaree Council
GSE	Ground surface exposure
GSV	Ground surface visibility
ha	Hectares
LALC	Local Aboriginal Land Council
LGA	Local Government Area
MSF	Marulan Solar Farm
MW	Megawatt
NPW Act	NPW Act National Parks and Wildlife Act 1974. Primary legislation governing Aboriginal cultural heritage within NSW.
OEH	Office of Environment and Heritage (now Heritage NSW)
OzArk	OzArk Environment & Heritage
PAD	Potential archaeological deposit. Indicates that a particular location has potential to contain subsurface archaeological deposits, although no Aboriginal objects are visible.
SEARS	Secretary's Environmental Assessment Requirements (
SEPP	State Environmental Planning Policy
SSD	State Significant Development
SSDA	State Significant Development Application

EXECUTIVE SUMMARY

Premise Australia Pty Ltd (Premise) and OzArk Environment & Heritage (OzArk) have been commissioned by Terrain Solar Pty Ltd (Terrain Solar) to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) to support a State Significant Development Application (SSDA).

Terrain Solar is proposing to develop an approximately 152 megawatt (MW) Solar Farm, Battery Energy Storage System (BESS) and associated works at Lot 55 DP1141136 (otherwise known as 740 Carrick Road, Carrick NSW 2580) in the Goulburn Mulwaree Council (GMC) Local Government Area (LGA).

The entirety of the host property consists of an area of approximately 1,400 hectares, of which approximately 375.5 hectares is to be occupied by the proposed 152 megawatt (MW) solar farm. The development is known as the Marulan Solar Farm (MSF).

This ACHAR has been prepared to address Secretary's Environmental Assessment Requirements (SEARs) relevant to Aboriginal heritage and provides an assessment of the likely impacts of the development.

Subject to the SEARs issued for the MSF, an archaeological survey was undertaken over a period of three days between 28 September 2021 and 30 September 2021 by a team of 2 archaeologists and 1 Registered Aboriginal Party (RAP) representative. Subsequent test excavations were undertaken over a period of 6 days during December 2021 and February 2022. A team of three archaeologists and five RAP representatives per day undertook the test excavation program.

A total of six archaeological sites have been identified within the study area inclusive of five previously recorded AHIMS sites and one new site (AHIMS #51-6-0908) recorded during the site survey. One additional site is located directly adjacent to the border of the study area.

The six sites registered within the study area include:

- AHIMS ID #51-6-0364
- AHIMS ID #51-6-0373
- AHIMS ID #51-6-0374
- AHIMS ID #51-6-0375
- AHIMS ID #51-6-0376
- AHIMS ID #51-6-0908

All six sites are artefact sites and consist of low-density artefact scatters or isolated finds.

One additional site is located out of the study area, however, is located adjacent to the study area boundary and consists of a stone quarry site (AHIMS ID # 51-6-0372).

A total of six locations were targeted through test excavations. Artefacts from the program were predominantly recorded in the top soil and the underlying sandy loam layer within the upper 15cm of the soil profile. A total number of 203 Aboriginal objects were recorded from 19 out of 72 test excavation squares.

The highest density of artefacts was recorded at Location 5, which is within an area assigned with higher archaeological sensitivity in the south-western portion of the study area.

During the test excavation program five locations recorded artefacts (Locations 1-5). Three locations (Locations 1-3) will be registered as new sites, and two locations (Locations 4 and 5) are regarded as an extension of previously recorded sites:

- Location 1 will be named Osborns Creek OS-1.
- Location 2 will be named Narambulla Creek OS-1.
- Location 3 will be renamed Lockyersleigh Creek OS-1.
- Location 4 is near AHIMS ID #51-6-0376, this site will be updated to reflect the location of artefacts.
- Location 5 is near AHIMS ID #51-6-0364, this site will be updated to reflect the location of artefacts.

All new site recordings will be uploaded to the AHIMS database.

With the inclusion of new site recordings due to the test excavation program, there are nine known sites within the study area.

Consideration of data both from the region and the study area indicates that Aboriginal occupation was focused near the hills to the south and east of the study area, with only isolated camping activities evident in the rolling hills that characterise much of the study area. Analysis of test excavation findings indicates that occupation was more concentrated in the southwest of the study area nearer to the hill topography with only low-density occupation in the less-sheltered rolling hills. The evidence suggests Aboriginal occupation within the study area at least during the past 7,000 years, with activity predominantly occurring around landforms associated with Narambulla Creek.

All nine AHIMS sites within the study area are liable to be harmed during the proposed works and will result in a total loss of heritage value at all sites.

The proposed works will contribute to the cumulative loss of sites in the Marulan region. However, it must be borne in mind that all sites, apart from AHIMS ID #51-6-0364, are either low-density artefact scatters, isolated finds, or low-density subsurface manifestations only. Additionally, there remain a number of sites in the nearby region that will not be harmed by the MSF, such as sites located outside of the southern and western boundary of the study area, including the stone quarry site located adjacent to the study area, and several sites associated with the nearby Lynwood quarry.

Aboriginal Heritage management and mitigation measures for the proposed works include:

1. As the project is assessed as being State Significant Development (SSD), an Aboriginal Heritage Impact Permit (AHIP) is not required under Part 4.7 clause 4.41 (1)(d) of the EP&A Act. Instead, Aboriginal cultural heritage within the study area will be managed by an Aboriginal Cultural Heritage Management Plan (ACHMP) that will be developed following project approval in consultation with the RAPs and Heritage NSW. The ACHMP will contain the recommendations of this report, as well as an unanticipated finds protocol, procedures to manage unexpected discoveries of human remains, and policies on the fate of any Aboriginal objects either salvaged following project approval or from the test excavation program.
2. The proponent should consider avoiding the south-western portion of the study area containing AHIMS ID #51-6-0364 (test excavation Location 5) and European archaeological material. If this is possible, no further archaeological investigation at AHIMS ID #51-6-0364 will be required.
3. If Location 5 of the test excavation program is harmed, limited salvage excavations must take place prior to ground disturbance by the project. This would include the manual excavation of an additional 4 excavation squares (1 metre squared) around the three test squares recording the highest numbers of artefacts. There would be triggers for expansion but only to a maximum of 6 square metres in total.
4. Sites recorded during the test excavation program (Osborns Creek OS-1, Narambulla Creek OS-1, and Lockyersleigh Creek OS-1) are subsurface manifestations only and as subsurface artefacts were recorded

at a low artefact density representative of a background scatter that would be common in most landforms of the region, no further archaeological investigation is warranted at these sites.

5. Sites with a surface expression of artefacts in the study area (AHIMS ID #51-6-0373, AHIMS ID #51-6-0374, AHIMS ID #51-6-0375, AHIMS ID #51-6-0376, AHIMS ID #51-6-0908) will be salvaged through a collection of surface artefacts prior to impacts. Given that these sites are low-density artefact scatters and isolated finds, their scientific significance is low, and the recording and collection of visible artefacts is considered to be sufficient mitigation with regard to the proposed impact. Specific recommendations for AHIMS ID #51-6-0364 are provided in Recommendations 2 and 3.
6. It is proposed that Aboriginal objects recovered from the salvage surface collection together with test excavation artefacts, will be reburied within the study area, outside the proposed impact area. Terrain Solar (or proponent) would need to identify a location that will not be impacted by the proposed solar farm operation for consideration by the RAPs. Management of Aboriginal objects recovered during the salvage program and test excavation program will be discussed through consultation with RAPs during the development of the ACHMP.
7. An unexpected finds procedure would be implemented as part of the management considerations for Aboriginal Cultural Heritage. unexpected finds policy should be included as part of the proposed ACHMP. If unanticipated Aboriginal objects are uncovered during works, all work in the vicinity should cease immediately. A qualified archaeologist should be contacted to assess the find and Heritage NSW and Pejar LALC must be notified.
8. All impacts must remain within the assessed study area or further archaeological investigation may be required.

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1. INTRODUCTION

1.1 Project Background

Terrain Solar is proposing to develop an approximately 152 megawatt (MW) Solar Farm, Battery Energy Storage System (BESS) and associated works at Lot 55 DP1141136 (otherwise known as 740 Carrick Road, Carrick NSW 2580) in the Goulburn Mulwaree Council (GMC) Local Government Area (LGA).

The entirety of the host property consists of an area of approximately 1,400 hectares, of which approximately 375.5 hectares is to be occupied by the proposed 152 megawatt (MW) solar farm. The development is known as the Marulan Solar Farm (MSF).

Premise Australia Pty Ltd (Premise) and OzArk Environment & Heritage (OzArk) have been commissioned by Terrain Solar Pty Ltd (Terrain Solar) to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) to support a State Significant Development Application (SSDA).

1.2 Approval Framework

The proposed development will be assessed as State Significant Development (SSD) under Schedule 2 of the *State Environmental Planning Policy (State and Regional Development) 2011* (SRD SEPP) and is subject to approval by the Department of Planning and Environment (DPE). The Marulan Solar Farm project is submitted as a State Significant Development Application (SSDA) under Part 4 Division 4.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act).

The Secretary's Environmental Assessment Requirements (SEARs) for the project were issued by the (then) Department Planning, Industry and Environment on 19 February 2021 (SSD 13137914). The SEARS specify that an Environmental Impact Statement (EIS) must be prepared and include an ACHAR to identify and describe the Aboriginal cultural heritage values that may be impacted by the proposed development.

The SEARs relating to Aboriginal cultural heritage, and where they are addressed in this report, are listed in **Table 1** and are provided in **Appendix A**.

This ACHAR has been prepared in accordance with the following requirements and guidelines:

- SEARs SSD 13137914.
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) (Consultation Requirements).
- *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (Code of Practice; (Department of Environment, Climate Change & Water [DECCW] 2010).
- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (Office of Environment & Heritage [OEH] 2011) (The ACHAR Guide)
- The Burra Charter (ICOMOS 2013).

Table 1 – Secretary’s Environmental Assessment Requirements

SEARS	Requirement	Relevant section
Planning Secretary’s Environmental Assessment Requirements – Key Issues (Heritage)	<p><i>...an assessment of the likely impacts of the development:</i></p> <ul style="list-style-type: none"> <i>on Aboriginal (cultural and archaeological), including a full archaeological assessment and consultation with the local Aboriginal community in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents;</i> 	<p>Section 10 - Aboriginal Cultural Heritage Assessment</p> <p>Section 3 - Consultation</p> <p>Section 12 - Impact Assessment</p>
Heritage NSW – Aboriginal Cultural Heritage Regulation Secretary’s Environmental Assessment Requirements (Attachment A) Reference DOC21/46752-3	1. The EIS must identify and describe the Aboriginal cultural heritage values that exist across the whole area that will be affected by the development and document these in an Aboriginal Cultural Heritage Assessment Report (ACHAR). This may include the need for surface survey and test excavation. The identification of cultural heritage values must be conducted in accordance with the Code of Practice for Archaeological Investigation in NSW (DECCW 2010), and be guided by the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in New South Wales (OEH 2011) and consultation with Heritage NSW.	<p>Section 10 - Aboriginal Cultural Heritage Assessment</p> <p>Section 11 - Identifying Cultural Values and Significance</p>
	2. Consultation with Aboriginal people must be undertaken and documented in accordance with the Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW 2010). The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the ACHAR.	Section 3 - Consultation
	3. Impacts on Aboriginal cultural heritage values are to be assessed and documented in the ACHAR. The ACHAR must demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to Heritage NSW.	Section 12 - Impact Assessment
	4. The assessment of Aboriginal cultural heritage values must include a surface survey undertaken by a qualified archaeologist. The results of the surface survey are to inform the need for targeted test excavation to better assess the integrity, extent, distribution, nature and overall significance of the archaeological record. Test excavations will need to be completed as part of the assessment process to ensure the impacts to Aboriginal cultural heritage values by the development is adequately considered in the EIS. The results of surface surveys and test excavations are to be documented in the ACHAR.	<p>Section 7 - Survey Results</p> <p>Section 8 - Test Excavations</p>
	5. The ACHAR must outline procedures to be followed if Aboriginal objects are found at any stage of the life of the project to formulate appropriate measures to manage unforeseen impacts.	Section 12 - Impact Assessment

SEARS	Requirement	Relevant section
	6. The ACHAR must outline procedures to be followed in the event Aboriginal burials or skeletal material is uncovered during construction to formulate appropriate measures to manage the impacts to this material.	Section 12 - Impact Assessment

1.3 Proposed Works

The proposed development consists of the installation and operation of a 152 MW solar farm, BESS and associated infrastructure.

The proposed development is depicted in **Figure 1** and includes:

- An approximately 375.5 hectare solar farm in the southern portion of the site, comprising an approximately 330 hectare area of solar infrastructure (consisting of approximately 360,000 modules (solar panels) mounted on single axis-tracker units) together with mapped exclusion areas of approximately 35.5 hectares;
- Between 24 and 55 inverter stations, each containing an inverter between 2.2 and 4.92MW capacity and a 400V/33kV transformer;
- Cabling, electrical connections, and switch-gear, attached to the mounting frame structures, to interconnect modules;
- Underground cabling connecting arrays and inverter stations;
- A 33/132kV substation;
- A 132 kV switching station in one of two possible locations;
- A BESS, which may be distributed amongst the solar array development area (if DC coupled), or arranged into an area proximate to the substation (if AC coupled);
- Overhead or underground 132kV single circuit line power line connecting the solar farm substation to the switching station, which will cut into the existing Essential Energy owned 132kV transmission line;
- Temporary construction compound south of the solar farm including material laydown areas, site offices, vehicle parking, and amenities;
- Construction of an internal road from a new crossover at the site's Munro Road boundary;
- Chain-link/barbed-wire security fence up to three metres in height; and
- Specific native vegetation screening from identified visual impact locations.

The proposed works include infrastructure development mostly in the southern portion of the host Lot 55 DP1141136 for the creation of the solar farm, with associated infrastructure such as battery energy storage, substations and a transmission line linking the infrastructure located to the north east. Construction of an internal road from a new crossover at the site's Munro Road boundary in the southern portion of the lot is also proposed.

The proposed works consist of minor earthworks across the study area and include installation of solar infrastructure and associated buildings, connection routes and access road. Only minor grading works are expected to occur and ground disturbance is expected to be minimal and limited to:

- Filling of three (3) existing man-made farm dams ;
- Grass slashing, and removal of rock and timber debris as required in preparation for construction;
- The installation of the piles supporting the solar panels, which would be driven or screwed into the ground to a depth of approximately 1.5 metres;

- Construction of internal access tracks;
- Concrete foundations for the inverter stations, BESS, substation componentry and O&M building;
- Trenches for the installation of cables;
- Establishment of temporary staff amenities and offices for construction; and
- Construction of perimeter security fencing.

Aside from the footprint of permanent electrical infrastructure retained post de-commissioning (to be retained by the electricity authority), any disturbed areas would be restored to pre-development or improved conditions post-construction.

The proposed development would consist of ground levelling, minor excavation or backfilling where needed, and would also involve the construction of solar farm infrastructure (panels) and associated BESS buildings.

The proposed solar farm infrastructure would include installation of solar panels with a maximum height of 5.4m. However these would be terraced across the undulating landscape.

The proposed development would include underground cabling connecting arrays and inverter stations.

Landscaping throughout the site is proposed and would be developed consistent with the plan set out in the project Landscape and Visual

While the design detail of the proposal is to be confirmed, the proposal would involve works which would unavoidably impact on previously recorded Aboriginal sites as discussed below (refer **Section 12.1.1**).

Extensive excavation and backfilling are not likely to occur, and trenching will be kept to a minimum. Exclusion zones have been developed around drainage lines. An existing heritage curtilage surrounding a local LEP heritage listed item is located in the western portion of the study area.

The proposed works are shown in **Figure 1**.

1.4 Study Area

The MSF is situated within an irregularly shaped, approximate 1,400-hectare parcel of land at 740 Carrick Road, Carrick (Lot 55, DP 1141136). The 'host lot' refers to the larger cadastral area within which the 'study area' is located. The total study area for this ACHAR comprises an area of approximately 798 hectares(ha).

The study area is located in the Goulburn Mulwaree Local Government Area (LGA) and within the Parish of Billyrambija, Parish of Nattery and County of Argyle.

The study area consists of generally cleared, fenced paddocks, currently in use for grazing purposes. The solar investigation area features some isolated trees while the buildable footprint is almost devoid of upper stratum vegetation. The landscape of the study area is undulating with several watercourses at low points. The landscape rises to a high point of 680 metres (m) average height datum (AHD) in the southwest and falls to a low of 617 m AHD toward the centre of the study area, along the course of Narambulla Creek.

The study area contains several named and unnamed waterways, the most notable of which are Lockyersleigh Creek (4th order stream), Osborns Creek (4th order stream), and Narambulla Creek (4th order stream). These creeks drain generally northward towards the Wollondilly River.

The study area falls within the boundaries of the Pejar Local Aboriginal Land Council (Pejar LALC).

The site and study area for this ACHAR are shown on **Figure 1**.

1.4.1 ABORIGINAL HERITAGE IN THE STUDY AREA

An extensive search of the online Aboriginal Heritage Information Management System (AHIMS) database identified 24 Aboriginal sites or places within a 3 km radius of the proposed MSF investigation area. A total of six registered sites are located within the study area, with a further one site located adjacent to the border of the study area. The location of recorded Aboriginal sites is provided in **Figure 5**.

1.5 Assessment Objectives

The objectives of this ACHAR are to:

- Identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (Code of Practice; DECCW 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (the Guide; OEH 2011).
- Assess the significance of Aboriginal Cultural heritage values including archaeological and community cultural values.
- Ensure appropriate Aboriginal community consultation is undertaken during the assessment process in accordance with the ACHCRs (DECCW 2010b).
- Assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- Include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations were completed as part of this assessment, the results of which will be documented in the ACHAR.
- Analyse impacts and present recommendations for managing Aboriginal Heritage in the study area, including the need for further investigations, mitigation and management measures.
- Outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.
- Prepare a consolidated report assessing potential impacts to Aboriginal Heritage that assists the Department of Planning, Industry and Environment to assess the state significant development application.

To achieve these objectives this ACHAR includes:

- A description of Aboriginal Community Consultation including involvement with the assessment process
- A description of the proposed works associated with the development and existing features of the study area
- A Significance assessment of the study area and identified Aboriginal cultural heritage values
- An outline of Statutory requirements for the protection of Aboriginal heritage.
- An assessment of the development's potential impact on recorded Aboriginal sites and areas of archaeological potential.
- Provision of measures to avoid and minimise harm to Aboriginal heritage values.

1.6 Limitations

This report has been prepared to assess Aboriginal heritage values only. Non-Aboriginal heritage is assessed in a separate technical report (Historical Impact Assessment) for the EIS (Premise 2022).

1.7 Authorship and Acknowledgements

This report was prepared by Latisha Ryall (Archaeologist, Premise), Ben Churcher (Principal Archaeologist, OzArk Environment & Heritage) and Hugh Shackcloth-Bertinetti (Graduate Environmental Planner, Premise). Ben Churcher managed the project and supervised the archaeological survey and test excavation.

The survey was attended by Ben Churcher. Latisha Ryall and a representative of Pejar LALC were also in attendance.

Test excavations were supervised by Ben Churcher with archaeologists Dr Yekun Zhang and Barry Kerton undertaking site work (OzArk). Registered Aboriginal Parties were also in attendance (refer **Table 4** and **Table 5**).

Artefact analysis and post-test excavation results were prepared by Tory Stening (Unearthed Archaeology & Heritage).

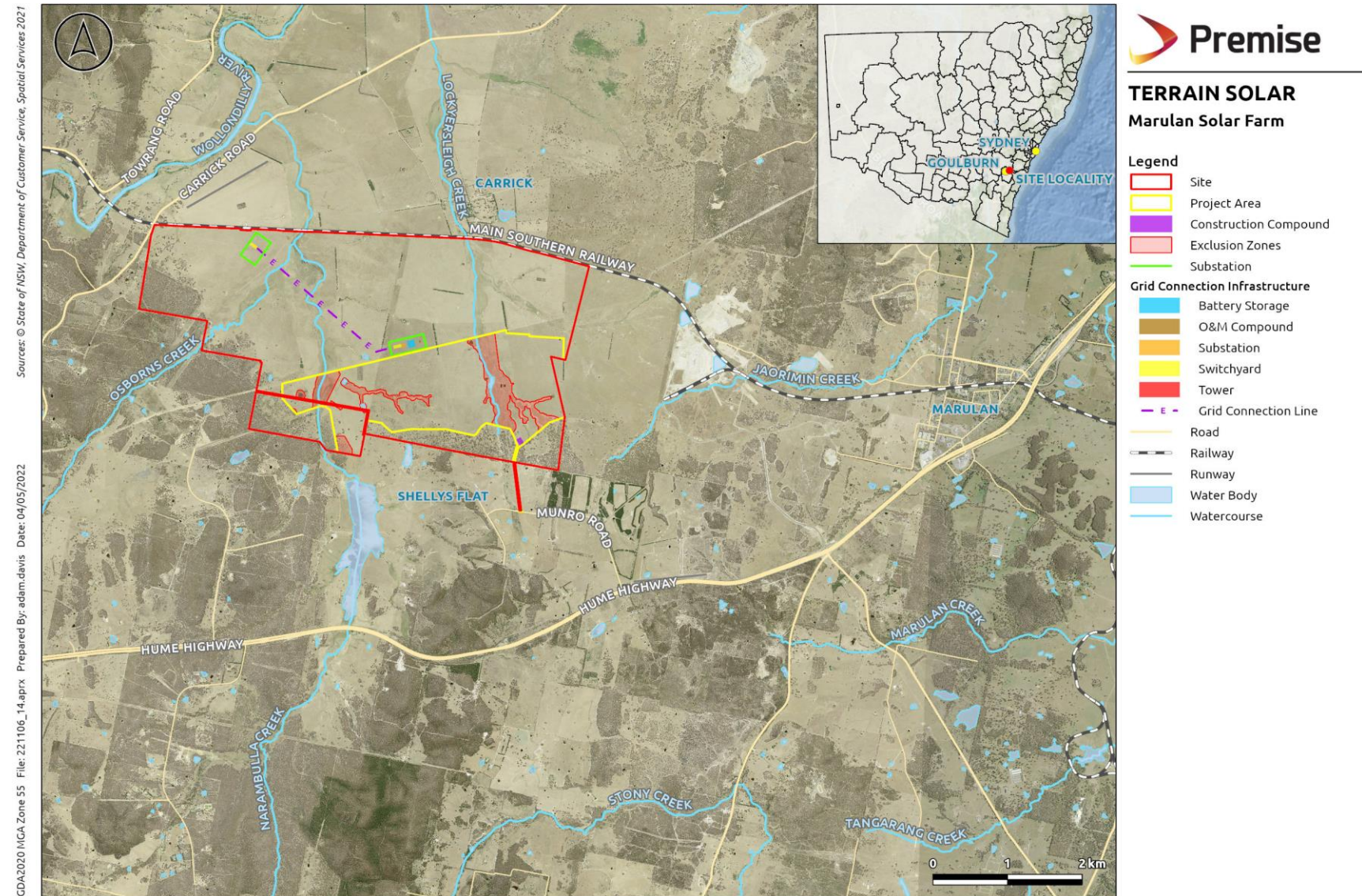
David Walker (Senior Town Planner, Discipline Lead, Premise) directed the project and provided management input.

The qualifications of consultants involved in the production of the report is outline in **Table 2**.

Table 2 – Consultant Qualifications

Name	Company	Qualification	Years' Experience
Ben Churcher	OzArk	BA (Hons) Dip Ed Aboriginal and historic heritage	35 + years
Dr Yekun Zhang	OzArk	PhD Archaeology M.Sc Archaeological Science B Arts Archaeology & Anthropology	2 years
Barry Kerton	OzArk	Master of Archaeological & Evolutionary Sciences	2 years
Tory Stening	Unearthed Archaeology & Heritage	Bachelor of Arts and a Master of Arts (Archaeology).	15 years
Latisha Ryall	Premise	BA Archaeology and Palaeoanthropology. BA (Hons) Archaeology	3.5 years
David Walker	Premise	BURP Town Planning	15 years
Hugh Shackcloth Bertinetti	Premise	BA&Sc Geography and Environmental Humanities	1 year

Figure 1 – Marulan Solar Farm Host Lot and Study Area



2. LEGISLATIVE BACKGROUND

2.1 State Legislation

2.1.1 NATIONAL PARKS AND WILDLIFE ACT 1974

The *National Parks and Wildlife Act 1974* (NPW Act), provides statutory protection for all Aboriginal 'objects' and 'places' in NSW.

The NPW Act defines an Aboriginal 'object' as:

...any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction and includes Aboriginal remains.

The NPW Act defines an Aboriginal 'place' as:

any place declared to be an Aboriginal place under section 84.

Part 6 of the NPW Act provides specific protection for Aboriginal objects and declared places where it is an offence to harm them without appropriate consent or defence. Harm is defined as destroying, defacing, damaging an Aboriginal object or place, or by moving an object from the land.

An Aboriginal place, as defined under Section 84, is declared by the Minister in recognition of its special significance with respect to Aboriginal culture. All aboriginal objects are protected under the NPW irrespective of whether they are recorded or not and irrespective of their level of significance. However, areas are only gazetted as Aboriginal places if the Minister is satisfied that sufficient evidence exists to demonstrate that the location was and/or is of special significance to Aboriginal culture.

There are no gazetted Aboriginal places in the study area.

As indicated in Section 2.1.2, pursuant to Section 4.41 of the EP&A Act, the development is being assessed as SSD under Part 4 Division 4.7 of the EP&A Act and permits issued required under Section 90 NPW Act are therefore, not required.

2.1.2 NATIVE TITLE ACT 1994

The *Native Title Act 1994* was introduced to work in conjunction with the Commonwealth *Native Title Act 1993*. Native Title claims, registers and Indigenous Land Use Agreements are administered under the Act.

The *Native Title Act 1993* (NTA) recognises native title for Aboriginal peoples and Torres Strait Islanders. It provides a mechanism for recognising Native Title claims in circumstances where native title has not been extinguished and claimants, in accordance with the requirements of the NTA, can prove their rights and interests in land under traditional laws and customs. The NTA administers Native Title claims, registers and Indigenous Land Use Agreements.

The objects of the NTA are:

- (a) to provide for the recognition and protection of native title; and*
- (b) to establish ways in which future dealings affecting native title may proceed and to set standards for those dealings; and*
- (c) to establish a mechanism for determining claims to native title; and*

(d) to provide for, or permit, the validation of past acts, and intermediate period acts, invalidated because of the existence of native title.

A search of Native title vision and review of the National Native Title Tribunal's Native Title Register was undertaken in August 2021 and more recently on 22 February 2022 to identify any Native Title claims or applications, or Indigenous Land Use Agreements at or near the site.

There are no Native Title claims currently registered in the study area.

2.1.3 ABORIGINAL LAND RIGHTS ACT 1983

The *Aboriginal Land Rights Act 1983* (ALR Act) was established to reinstate ownership of traditional aboriginal land to Aboriginal peoples. It recognises the spiritual, social, cultural and economic importance of land for Aboriginal people and provides a compensatory regime that recognises Aboriginal Land rights. The ALR Act allows land in NSW to be returned to Aboriginal peoples through a process of lodging claims for Crown lands.

The ALR Act established the NSW Aboriginal Land Council (NSWALC) and a collection of Local Aboriginal Land Councils (LALCs) throughout the State. These bodies have a function to:

(a) take action to protect the culture and heritage of Aboriginal persons in the council's area, subject to any other law, and

(b) promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

The study area is within the boundary of the Pejar LALC.

2.1.4 HERITAGE ACT 1977

The *NSW Heritage Act 1977* (Heritage Act) provides recognition of native title for Aboriginal and Torres Strait Islanders and protects the state's natural and cultural heritage.

The Heritage Act provides protection for items of 'environmental heritage' including places, buildings, works, relics, movable objects or precincts considered significant based on historical, scientific, cultural, social, archaeological, architectural, natural or aesthetic values.

While Aboriginal heritage is primarily protected under the National Parks and Wildlife Act, it may be subject to provisions of the Heritage Act if it is listed on the State Heritage Register or subject to an Interim Heritage Order (IHO).

Items considered to be significant to the state are listed on the State Heritage Register (SHR). Items listed on the SHR or subject to an IHO cannot be destroyed, demolished, altered, moved or damaged without approval from Heritage NSW and until the significance of the item has been assessed.

2.1.4.1 State Heritage Register

Section 22 of the Heritage Act established the SHR which lists places and objects of state significance.

While the development is assessed as SSD and is therefore not subject to approvals under the Heritage Act, consultation with Heritage NSW and DPE would be conducted as part of the consultation process to ensure appropriate management of potential heritage impacts.

A review of the SHR indicates that there are no Aboriginal places of significance listed under the NPW Act.

There are 2 locally listed items on the SHR within the study area relevant to European heritage, however, are addressed separately (Premise HIS 2022).

2.1.5 ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

The NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) establishes a framework for assessing cultural heritage values in the land use planning and development consent process.

The proposed works will be assessed under part 4, Division 4.7 of the EP&A Act, which establishes an assessment and approval regime for SSD. Part 4, Division 4.7 applies to development that is declared to be SSD by a State Environmental Planning Policy (SEPP). Division 4.7, Section 4.41 of the EP&A Act specifies heritage approvals are not required for approved SSD.

Division 4.7 of the EP&A Act provides a regime for determining SSD and under Part 4.36 stipulates that:

(2) A State environmental planning policy may declare any development, or any class or description of development, to be State significant development.

Pursuant to Part 4.41 of the EP&A Act an Aboriginal Heritage Impact Permit (AHIP) under Section 90 of the *National Parks and Wildlife Act 1974*, are not required for SSD.

The EP&A Act also requires local governments to prepare planning instruments (such as Local Environmental Plans [LEPs] and Development Control Plans [DCPs]) in accordance with the EP&A Act to provide guidance on the level of environmental assessment required. The current study area falls within the boundaries of The Goulburn Mulwaree LGA which is subject to the Goulburn Mulwaree LEP 2009 and the Goulburn Mulwaree DCP 2009.

2.1.6 GOULBURN MULWAREE LEP 2009

The aim of the Goulburn Mulwaree LEP 2009 in relation to Aboriginal heritage is to conserve Aboriginal objects and Aboriginal places of heritage significance. Schedule 5 of the LEP lists identified items of heritage significance.

The LEP stipulates development controls in relation to development proposed on or near heritage listed properties, archaeological sites, or Aboriginal places of heritage significance.

There are no heritage items with Aboriginal heritage values listed on the Goulburn Mulwaree LEP within the study area.

2.1.7 STATE ENVIRONMENT PLANNING POLICY (STATE AND REGIONAL DEVELOPMENT) 2011

The State Environmental Planning Policy (State and Regional Development) 2011 (SRD SEPP) identifies development which is declared to be state significant.

Schedule 1, Clause 20 of the SRD SEPP identifies development that has a capital investment value of more than \$30 million for the purpose of electricity generating works and heat or co-generation including solar and is located in an environmentally sensitive area of State significance.

The proposed works have been classified as SSD under application SSD 13137914.

Development control plans do not apply to state significant projects.

2.2 Commonwealth Legislation

2.2.1 ENVIRONMENT PROTECTION AND BIODIVERSITY ACT 1999

The *Environment and Heritage Legislation Amendment Act (No. 1) 2003* amends the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) to include 'national heritage' as a matter of National Environmental Significance and protects listed places to the fullest extent under the Constitution.

The EPBC Act further establishes and lists protected heritage items under the National Heritage List and the Commonwealth Heritage List.

Chapter 3 of the *Environment Protection and Biodiversity Act 1999* (EPBC Act), assists the Minister to:

...decide whether an action that has, will have or is likely to have a significant impact on certain aspects of the environment should proceed.

Any action, including a project, development, undertaking, activity, series of activities or alteration, that will or is likely to have a significant impact on a MNES may only occur with approval of the Minister for the Environment and Energy obtained under Part 9 of the EPBC Act.

The *Australian Heritage Council Act 2003* established a new heritage advisory body, the Australian Heritage Council, to advise the Minister and retain the Register of the National Estate (RNE). The RNE was closed in 2007 and no longer remains statutory, however it retains an archive of heritage places throughout Australia.

The Acts outlined above provide protection for Australia's natural, Indigenous and non-Indigenous heritage to include:

- A new National Heritage List of places of national heritage significance
- A new Commonwealth Heritage List of heritage places owned or managed by the Commonwealth
- The creation of the Australian Heritage Council, an independent expert body to advise the Minister on the listing and protection of heritage places
- Continued management of the non-statutory Register of the National Estate.

A review of the National Heritage List, Commonwealth Heritage List and RNE was undertaken on 22 February 2022 summarised in the following subsections.

2.2.2 NATIONAL HERITAGE LIST

The National Heritage list contains heritage places of outstanding heritage significance to the nation, protected under the EPBC Act. It prohibits any person from taking an action that has, will have, or is likely to have, a significant impact on the national heritage values of a national heritage place without the approval of the Minister for the Environment.

The Australian Heritage Council, with the support of the Department of Environment and Energy, seeks to ensure that all places recommended by it to the Minister for listing meet the stringent criteria set out in legislation.

There are no items listed on the National Heritage List located within the study area.

2.2.2.1 Commonwealth Heritage List

The Commonwealth Heritage List is a list of Indigenous, historic and natural heritage places owned or controlled by the Australian Government.

There are no items listed on the Commonwealth Heritage List located within the study area.

2.2.2.2 Register of the National Estate (RNE)

The Register of the National Estate (RNE) is a list of natural, Aboriginal and historic heritage places throughout Australia, originally established under the *Australian Heritage Commission Act 1975*. The RNE ceased to be a statutory register in February 2012, however, is now a publicly available archive (Australian Heritage Database) that is maintained on a non-statutory basis.

There are no Aboriginal significant items or places listed on the RNE relevant to the Study Area.

2.2.3 ABORIGINAL AND TORRES STRAIT ISLANDER HERITAGE PROTECTION ACT 1984

The *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (ATSIHP Act) provides for the preservation and protection of Aboriginal cultural property in Australia and in Australian waters that are of particular significance to Aboriginal peoples such as places, objects and folklore in accordance with Aboriginal tradition.

Aboriginal tradition as defined under the ATSIHP Act, refers to:

...the body of traditions, observances, customs and beliefs of Aboriginals generally or of a particular community or group of Aboriginals, and includes any such traditions, observances, customs or beliefs relating to particular persons, areas, objects or relationships.

Archaeological sites or objects registered under State legislation will typically be recorded as Aboriginal places subject to the provisions of the Commonwealth The ATSHIP Act, however, takes precedence over state legislation in circumstances where there is a conflict and may prevent an activity approved by a state with the declaration to protect an area or object.

The Commonwealth Act takes precedence over State cultural heritage legislation where there is conflict. Under Section 10 of the ATSIHP Act, The Minister may make a declaration that overrides state or territory decisions in situations where state or territory laws do not provide adequate protection of heritage.

No declarations relevant to the proposal site have been made under the ATSIHP Act.

3. CONSULTATION

3.1 Aboriginal Community Involvement

Consultation with Aboriginal people is an integral part of the process of investigating and assessing Aboriginal cultural heritage.

Consultation with Aboriginal community members was undertaken in accordance with clause 80C of the *National Parks and Wildlife Amendment (Aboriginal Objects and Aboriginal Places) Regulation 2010* and the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010).

The consultation steps outlined in the 2010 Guide are listed below:

- Step 1 – Notification of project proposal and registration of interest.
- Step 2 – Presentation of information about the proposed project.
- Step 3 – Gathering information about cultural significance.
- Step 4 – Review of draft cultural heritage assessment report.

Opportunity for providing input into the cultural heritage values of the study area was provided in the ACHAR methodology, including invitation for feedback on the ACHAR methodology:

- during field survey undertaken in 2021 by Premise and OzArk; and

- during subsequent test excavations undertaken in 2021 and 2022 by OzArk.

A consultation log has been maintained through the assessment process which details all correspondence with the Registered Aboriginal Parties (RAPs) for the proposed works (refer **Appendix B**).

3.2 Identification of Stakeholders and Notification and Registration of Interest

In accordance with Stage 4.1.2 of the Consultation Requirements, correspondence in the form of notification letters were issued on 7 May 2021 to the following organisations requesting details of Aboriginal people who may hold cultural knowledge relevant to determining the Aboriginal significance of Aboriginal objects and/or places within the Goulburn Mulwaree LGA.

- National Native Title Tribunal.
- Native Title Services Corporation Limited (NTSCORP).
- Heritage NSW.
- The Registrar, Aboriginal Land Rights Act 1983 (Office of the Registrar).
- South East Local Land Services (SELLS).
- Pejar Local Aboriginal Land Council.
- Goulburn Mulwaree Council.

In accordance with Stage 4.1.3 of the Consultation Requirements, Premise placed an advertisement in the Koori Mail and the Goulburn Post on 19 May 2021. The advertisement invited all Aboriginal persons and organisations who hold cultural knowledge relevant to determining the significance of Aboriginal objects and places in the study area to register their interest.

Also, in accordance with Stage 4.1.3, registration of interest letters and/or emails were sent on 19 May 2021 to all Aboriginal persons and organisations identified through responses from the agencies contacted during Step 4.1.2 (refer **Appendix B**). The letters provided details on the location and nature of the proposed works, as well as an invitation to register as an Aboriginal stakeholder. Fourteen days were allowed for registrations.

The following 15 Aboriginal stakeholders registered their interest for the MSF project. These groups or individuals constitute the Registered Aboriginal Parties (RAPs) for the MSF.

One RAP requested anonymity and will be referred to as Stakeholder 1.

The RAPs are listed in **Table 3**.

Table 3 – Registered Aboriginal Parties (RAPs)

#	Individual/Group
1	Pejar LALC
2	Didge Ngunawal Clan
3	Ngunawal Consultancy
4	Murra Bidgee Mullangari Aboriginal Corporation
5	Merrigarn Indigenous Corporation
6	Muragadi Heritage Indigenous Corporation
7	Stakeholder 1
8	Konanggo Aboriginal Cultural Heritage Services
9	Freeman&marx Pty Ltd
10	Mulwaree Aboriginal Community Inc
11	Ngunnawal Elders Corporation
12	Buru Ngunawal Aboriginal Corporation (BNAC) Ngunawal Traditional Custodian Group
13	Duncan Falk Consultancy
14	Yurwang Gundana Cultural Heritage Services
15	Corroboree Aboriginal Corporation

In accordance with Step 4.1.6 of the Consultation Requirements, a list of RAPs, a copy of the newspaper advertisement, and a copy of the invitation to register an interest, were forwarded to Heritage NSW and Pejar LALC on 9 June 2021 (refer **Appendix D**).

- One RAP responded with concerns over registered parties having no local knowledge of the area.

3.3 Review of Assessment Methodology

A copy of the proposed ACHAR methodology was distributed to RAPs on 24 August 2021 with a mandatory 28-day period for review and comment. The document included details of the proposed works, and a summary of proposed ACHAR assessment and survey methodology (refer **Appendix F**).

Comments were received from four RAP groups with responses indicating their support or acknowledgement of the proposed assessment and survey methodology and/or requested interest for field participation.

On the 24 November 2021 an addendum to the draft assessment methodology was issued to RAPS addressing Test Excavations requirements for review and comment.

Comments were received from five RAP groups with responses indicating their support or acknowledgement of the proposed test excavation methodology and/or registering interest for field participation.

No specific comments were received from the RAPs on the significance of the site through review of the assessment methodology. initial correspondence OR during site survey or participation in test excavations.

3.4 Site Survey

An intensive archaeological survey of the study area was completed over three days between 28 -30 September 2021, with a representative of Pejar LALC. The survey area boundary was slightly modified in the field based on access restrictions and low archaeological visibility; however, this did not impact on the cumulative survey results.

The Aboriginal Heritage Information Management System (AHIMS) site register was consulted prior to attendance on site to determine if any previously recorded sites were in, or near, the study area. Previous archaeological studies were also reviewed to familiarise the consultant with local archaeology and recent investigations in the area.

Discussions held during the field survey between archaeologists and RAPs indicated that the area had been subject to intense agricultural disturbance over the past 200 years, consistent with the current land use. RAPs and the project archaeologists agreed that areas of potential sensitivity would likely be located close to creek lines, along areas with higher exposure or on lower crests. A comprehensive discussion of the site survey is provided in **Section 7**.

3.5 Community Engagement Session

Community engagement sessions for the MSF were held via webinars on the 7 and 15 December 2021. All RAPs identified in **Section 3.2** were invited to attend, with the following RAP attendees present:

- Robert Young.
- Darleen Johnson: Aboriginal community officer.
- Meraki Bell.

Representatives from Premise and Terrain Solar were also in attendance.

The community engagement sessions focused on elements of the project including an overview, EIS summary and Aboriginal Heritage (ACHAR).

Verbal discussions relating to the ACHAR confirmed the following:

Session 1

Community was advised that a field survey had been undertaken and test excavations would occur in the week before Christmas and more assessment would be needed. Questions were raised on the test excavation program and rostering for the field work. Response indicated that a roster would be circulated within the week.

Terrain also indicated that during the preparation of the EIS a project website, survey and email was available for community questions and feedback with the opportunity to make a formal comment.

Session 2

Community was advised that field surveys had been undertaken in September with a representative from Pejar LALC in attendance. One isolated artefact was identified during the survey. A query was made if other consultancies were involved. Response indicated that no other consultancies were involved during the survey, however further investigations are required in the form of test excavations.

A query was made regarding the material of the isolated find and method for undertaking test excavations. Response indicated that confirmation of the material would be provided in the Test Excavation Methodology to be circulated to RAPS. Cultural knowledge was provided during the community meeting with one RAP indicating that during site survey the landform is observed by Aboriginal people in regard to PADs (Potential

Archaeological Deposits) and the historical flow of the river before occupation of the area. RAPs would have liked the opportunity to be involved in the survey.

Robert Young advised that every representative has different knowledge and cultural heritage ties to the area. Robert also shared that:

'in our culture our understanding and knowledge of country is forever ongoing'

3.6 Aboriginal Community Involvement in Test Excavations

The following groups were involved in the Test Excavation program. The test excavation program ran over a period of 3 days in December 2021 and resumed again for a period of two days in February 2022. Due to weather and site conditions, all work could not be completed on the allocated days in December.

Table 4 – December 2021 Test Excavation Roster

Monday 20/12/2021	Tuesday 21/12/2021	Wednesday 22/12/2021	Thursday 23/12/2021	Friday 24/12/2021
Murra Bidgee Mullangari Aboriginal Corporation	Murra Bidgee Mullangari Aboriginal Corporation	Pejar Local Aboriginal Land Council	Pejar Local Aboriginal Land Council	Pejar Local Aboriginal Land Council
Merrigarn Indigenous Corporation	Merrigarn Indigenous Corporation	Didge Ngunawal Clan	Didge Ngunawal Clan	Didge Ngunawal Clan
Muragadi Heritage Indigenous Corporation	Muragadi Heritage Indigenous Corporation	Corroboree Aboriginal Corporation	Corroboree Aboriginal Corporation	Corroboree Aboriginal Corporation
Freeman&marx Pty Ltd	Freeman&marx Pty Ltd	Yurwang Gundana Cultural Heritage Services	Yurwang Gundana Cultural Heritage Services	Yurwang Gundana Cultural Heritage Services
Ngunawal Heritage Aboriginal Corporation	Ngunawal Heritage Aboriginal Corporation	Duncan Falk Consultancy	Konanggo Aboriginal Cultural Heritage Services	Konanggo Aboriginal Cultural Heritage Services

Table 5 – February 2022 Test Excavation Roster

Group	Dates
Pejar Local Aboriginal Land Council	22-23 February 2022 (Monday-Tuesday)
Didge Ngunawal Clan	22-23 February 2022 (Monday-Tuesday)
Yurwang Gundana Cultural Heritage Services	22-23 February 2022 (Monday-Tuesday)
Duncan Falk Consultancy	22-23 February 2022 (Monday-Tuesday)
Konanggo Aboriginal Cultural Heritage Services	22-23 February 2022 (Monday-Tuesday)

3.7 Aboriginal Cultural Values

An invitation for RAPs to provide input or comments on Aboriginal Heritage cultural values for the MSF were provided through the assessment process, during site survey and through test excavations.

No specific information was provided on the significance of the site at the time this report was prepared. However, a comment was made that the area holds cultural significance and aesthetic values for community with the connection to country and a sense of healing. Information was also provided by Mulwaree Aboriginal Community Inc who indicate that the area is within the songlines from north to south ceremonial sites and there are early colonial records of “Kangaroo song” being used within this region for travel purposes (refer **Section 5.2**).¹

A report prepared by Australian Museum Business Services (AMBS) identified that the Narambulla Creek was a massacre site (AMBS 2012:30) however no further information could be obtained on where or when this event occurred. During the site survey and test excavation program, no evidence of this type of event was recorded. Cultural information provided through the consultation process indicates that there is no evidence/knowledge of any such massacre in local Traditional Custodian knowledge and no reference to any massacre on the University of Newcastle Australian Aboriginal Massacres website (refer **Section 3.8** and **Section 11.2**).

It is noted that in respecting the Aboriginal community not all cultural heritage sites should be mapped or identified.

3.8 Review of Draft ACHAR

A draft version of this ACHAR was provided to the RAPs for a 28-day review period on 31 March 2022, requesting comments and feedback to be provided by 28 April 2022.

At the end of the review period three (3) groups had provided a written response shown in **Table 6**.

At the time this report was prepared no further responses have been received.

This report incorporated feedback provided in RAP response and was finalised on 4 May 2022. As a result of a pre-lodgement review by DPE, the ACHA has been further updated to reflect consistency with the project description in the EIS (**Section 1.2**) and to make minor spelling corrections.

A record of all Aboriginal community consultation is provided in **Appendix A**.

Table 6 – Summary of RAP comments on Draft ACHAR

Organisation	Comments	Response
Didge Ngunawal Clan	<ul style="list-style-type: none"> DNC is happy with everything at this stage 	N/A
Stakeholder 1	<ul style="list-style-type: none"> Supports ACHAR and agrees with recommendations. The following comments were received: <ul style="list-style-type: none"> The recommendations provide sufficient management strategies with the expectation they would be fully implemented by Terrain. Regarding AHIMS # 51-6-0364 a strong support for the avoidance of this site is noted and would like the exclusion zone to be extended into this area. 	N/A

¹ Pers comm Mulwaree Aboriginal Community Inc email dated 28/04/2022.

Organisation	Comments	Response
	<ul style="list-style-type: none"> – Preference is for any cultural material to be reburied on site in a suitable location which would not be impacted by any future development. – Terrain Solar should also provide Aboriginal Cultural Heritage Awareness Training to all personnel involved in construction works prior to commencement. – Acknowledgement was provided regarding adequate consultation was undertaken during the preparation of this report. 	
Mulwaree Aboriginal Community Inc	<ul style="list-style-type: none"> • Mulwaree Aboriginal Community Inc supports the ACHAR and agree to the recommendations documented in the Aboriginal Heritage management and mitigation measures Section 13.6 for the proposed works and would like to be consulted in relation to the site for reburial. Requested update to preferred spelling for Gundungurra. – The following comments were put forward by Mulwaree Aboriginal Community Inc. 	Premise updated correct spelling and acknowledged support of the ACHAR and ongoing involvement.
	<ol style="list-style-type: none"> 1. Advised the archaeological report prepared for Old Marulan for Holcim be forwarded to Premise for review as it holds cultural importance for the Mulwaree Aboriginal Community Inc (MACI) specifically: <i>our old people and their lifestyles, names and events including ongoing connection to Country during and after colonisation</i> 	<ol style="list-style-type: none"> 1. Premise reviewed the report and updated information relevant to the Aboriginal history of the area in Section 5.2 and Section 7.6. Reference to this document is provided in Section 15
	<ol style="list-style-type: none"> 2. Report to include an update to quality of research for cultural events specifically mention of the Narambulla Creek massacre site noting the first record of this appears in Goulburn Mulwaree Council Aboriginal Heritage Study (GMAHS) prepared in January 2012. MACI advise there is no evidence / knowledge of any such massacre in local Traditional Custodian knowledge and no reference to any massacre on the University of Newcastle Australian Aboriginal Massacres website. 	<ol style="list-style-type: none"> 2. Premises acknowledges this information; and a footnote has been provided in Section 11.2
	<ol style="list-style-type: none"> 3. Requests removal of reference to Wiradjuri ties to the area noting this is offensive to the Traditional People of Goulburn and Marulan areas. <i>Note this is not and never has been Wiradjuri land</i> 	<ol style="list-style-type: none"> 3. Reference relating to Wiradjuri connections have been removed from the report.
	<ol style="list-style-type: none"> 4. Requests removal of context regarding ease of travel between Marulan / Bungonia area to Nowra / Shoalhaven as context is incorrect. Noting the language does not represent the Traditional Custodian Groups of this region. 	<ol style="list-style-type: none"> 4. Premise acknowledge information and updated information. Refer Section 5.1
	<ol style="list-style-type: none"> 5. Reference should be made to the Goulburn Mulwaree Council Aboriginal Heritage Study 2012 which demonstrates Goulburn was far more than a “meeting place acting as a cross roads” 	<ol style="list-style-type: none"> 5. Premise notes reference has previously been made to the 2012 AMBS study which does not discuss Marulan/Carrick

Organisation	Comments	Response
		in detail rather the broader Goulburn area. Additional information has been provided in Section 5.4 . No other updates have occurred..
	6. Requested information on Pejar River source.	6. Premise provided source information. Rivers of Carbon website: https://riversofcarbon.org.au/ No updated to Section 5.2
	7. Requested removal of the creation story of Gurangatch and Mirrigan as this is a dreamtime story from the Burraborang Valley, lower sections of the Wollondilly which is not relevant to the study area.	7. Information relating to the creation story has been left in however, summarised as referenced in AMBS 2012 as important to the LGA. This record has been updated in Section 5.2
	8. Having read the Premise proposal we request that the Aboriginal History of the area/ region is corrected to reflect the known and evidenced Aboriginal history. WE are aware that the site is within the songlines from north to south ceremonial sites and there are early colonial records of "Kangaroo song" being used within this region for travel purposes.	8. Premise acknowledge information received and have made updates as required Reference to the Kangaroo Song has been updated in Section 3.7, Section 5.2 and Section 11

4. ENVIRONMENTAL CONTEXT

4.1 Landform Geology and Soils

The study area is located within the south eastern highland's bioregion, which lies just inland from the coastal bioregions of the South East Corner and the Sydney Basin, bounded by the Australian Alps and South Western Slopes bioregions to the south and west. The bioregion includes most of the ACT and extends south into Victoria. The substrate is formed of Palaeozoic granites, metamorphosed sedimentary rocks and Tertiary basalts.

The highlands are part of the Lachlan fold belt that runs through the eastern states as a complex series of metamorphosed Ordovician to Devonian sandstones, shales and volcanic rocks intruded by numerous granite bodies and deformed by four episodes of folding, faulting and uplift. The general structural trend in this bioregion is north-south and the topography strongly reflects this.

The surface geology of the study area is generally comprised of granites and adamellite intrusions such as the Lockyersleigh Adamellite, forming undulating rises and valleys from granitic parent material. In the south western portion of the study area the geology transitions to undifferentiated Ordovician and early Silurian sediments occurring in footslopes. Rocks include silty sandstone, siltstone, greywacke, phyllite, shale, slate and quartzite. Soils have formed in situ and on alluvial-colluvial material derived from the parent rock.

The landscape of the study area is undulating with several watercourses at low points. The landscape rises to a high point of 680 metres (m) average height datum (AHD) in the southwest and falls to a low of 617 m AHD toward the centre of the study area, along the course of Narambulla Creek.

The study area predominantly sits within the Garland Soil Landscape with the western extent of the site (west of the Narambulla Creek) and part of the proposed access route sits within the Blakney Creek Soil Landscape (Hird, 1991).

Soils in the Garland Soil Landscape have formed in-situ from granitic parent rock and form alluvial-colluvial deposits. This Landscape occurs on gently undulating rises and low hills between 600-900 m elevation and is associated with permanent erosional stream channels. Gullying of drainage lines is the most frequent form of soil erosion in this landscape. Where gullies are allowed to progress unchecked, they can often reach depths of >3 m.

Light sandy duplex soils (Yellow Podzolic Soils) occur on the upper slopes, yellow duplex soils with sandy textured topsoils occur on mid and lower slopes, Sandy Red and Yellow Earths occur on sideslopes and Deep Siliceous Sands occur in drainage lines. Yellow Podzolic Soils have moderately erodible topsoil, moderate fertility, pH of 5.5 and have imperfect drainage. This is similar to Yellow Solodic Soils; however, these soils have moderate drainage. In contrast Siliceous Sands are a minor component of this landscape, are acidic, moderately well-drained with moderately fertility and erodibility.

The Blakney Creek Soil Landscape soils have also formed in-situ on alluvial-colluvial materials derived from sandstone, greywacke, phyllite, shale, slate and quartzite. This landscape also occurs between 600-900 m elevation in proximity to widely spaced permanent erosional stream channels. Red Podzolic Soils occur on crests and upper sides of hills and are hardsetting with moderate drainage, high topsoil erodibility and low fertility, with a pH of 5.0. Similarly, Yellow Podzolic Soils in this landscape are also hardsetting but occur on sideslopes and footslopes. These soils have moderate drainage, high topsoil erodibility and low fertility with a pH of 6.5.

4.2 Vegetation

Vegetation in the area is varied and consists of cleared modified pastures, low-lying wetland areas with native grasses and sedges, one native planting and patches of semi-cleared and remnant native woodland, and only scattered trees remain. The low gradient spurs and valley floors have been mostly cleared and now consist of introduced and native grasses.

Vegetation communities consist of Savannah woodland with yellow box and Blakely's red gum species and some dry sclerophyll forest dominated by red stringybark. Snow gum is found at higher altitudes and in frost pockets. Much of the wider Carrick/Marulan area has been heavily disturbed through former quarrying and agricultural use removing much of the original woodland landscape.

4.3 Hydrology

The study area contains several named and unnamed waterways, the most notable of which are Lockyersleigh Creek (4th order stream), Osborns Creek (4th order stream), and Narambulla Creek (4th order stream). These creeks drain generally northward towards the Wollondilly River.

Two creeks transverse the study area., the Narambulla Creek flows southwards across the western extent of the study area while the Lockyersleigh Creek flows southwards across the eastern extent of the site. Eleven farm dams are also present on the host lot. Narambulla Creek and Osborns Creek also transverse the northern portion of the study area containing the grid connection disturbance footprint.

The Lockyersleigh Creek catchment is a fourth order stream draining northwest into the Wollondilly River. Lockyersleigh Creek is an ephemeral creek system with flows in the creek bed occurring during storm events

or heavy periods of rain (Umwelt 2005a). The creek system is predominantly dry, with only some pooling of permanent or semi-permanent water in the downstream reaches of the creek. Lockyersleigh Creek is subject to erosion of the creek banks in the upper reaches where little or no riparian vegetation is present. Established riparian vegetation is located downstream (Umwelt 2005a).

4.4 Historical Context and Land Use

The broader area of Carrick, Marulan and Goulburn was utilised by Europeans from the early 1800s for large pastoral properties. The MSF has been subject to previous ground disturbance associated with extensive European agricultural activities such as cropping and grazing. Such land use practices have resulted in soil loss, often involving significant loss of top soils and any archaeological deposits they may have contained.

Aerial imagery of the study area shows that the waterways within the study area display widespread gully erosion because of vegetation clearing and stock trampling. This erosion may have removed archaeological deposits had they been present near to the waterways. Further, the aerial imagery indicates that streams such as Narambulla Creek have changed their course, and in the north of the study area, areas of aggradation, presumably with colluvial soils from nearby hills, are present. This observed channel migration and sedimentation lessens the likelihood of sites being recorded near these waterways, or if they are recorded, they will likely be in a secondary context.

Past agricultural clearing means that it is unlikely that culturally modified trees are located in the study area and the impact of over 150 years of intensive grazing has likely removed any evidence of ceremonial places (stone arrangements etc.) had they existed.

Digital elevation models (DEMs) prepared for issue of the survey methodology (refer **Appendix F**) show the general topography of the study area. The DEMs show that except for the V-shaped valley of Narambulla Creek just outside the study area in the southwest, that most of the study area is relatively level. The only features that interrupt the undulating landscape are drainage lines that have a broad channel in the case of Lockyersleigh Creek or narrower channels in the case of Narambulla and Osborns Creeks.

The only other topographical feature that is visible is a low north–south ridge to the east of Narambulla Creek. This ridge divides the more elevated eastern portions of the study area from the lower western portions and may be associated with an ancient course of the Wollondilly River.

Examination of historical aerial photography of the study area dating to 1979, indicates that very little change to the land use has occurred over the past 40 years. Comparison between 1979 and today shows almost no change to the vegetation cover within the study area (refer **Figure 2**). There is gully erosion associated with the banks of waterways and while this is still visible in the current aerial, it is perhaps not so noticeable as it was 40 years ago. Comparison of the two photographs emphasises the long-term grazing land use that has taken place in the region of the study area for at least the past 150 years (refer **Appendix F**).

Figure 2 – Aerial photographs showing the study area in 1979 and currently



4.5 Current Site Conditions

The site is currently comprised of large scale agricultural use predominantly used for grazing sheep and cattle. Landscape modifications include construction of the main southern rail line located on the northern boundary of the study area. Extensive clearing of native vegetation has occurred across most of the site. There is also evidence of high gully erosion along creek lines and contour banking located within the study area.

5. ARCHAEOLOGICAL CONTEXT

5.1 Ethnographic Aboriginal Context

Norman Tindale's extensive research into Aboriginal tribal boundaries in 1974, indicate that the Marulan area was at the junction point of four major tribes, however, two major language groups; the Ngunawal and the Gundungurra people were identified within the Goulburn Mulwaree region at the time of European contact. It is acknowledged that the Gundungurra and Ngunawal peoples are the traditional owners of Goulburn Mulwaree area, playing a significant and ongoing role in the history of the region (BRS 2018:12).

The Ngunawal territory extended to the south and south west from Queanbeyan to Yass and East to beyond Goulburn; whilst the Gundungurra territory extended to the north and north west at Goulburn and Berrima, down the Hawkesbury River to Camden. There were also two other associated language groups whose boundaries occurred close by being the Wodi Wodi and Wandandian people who lived on the land to the east of the Great Dividing Range, down to the coast.

The Wodi Wodi territory extends to the northeast north of the Shoalhaven River to Wollongong; and the Wandandian territory extends to the southeast from Ulladulla to the Shoalhaven River and Nowra.

It is likely that these tribal boundaries incorporated a number of distinct Aboriginal communities with their own dialects, who were probably linked by kinship networks, common beliefs, ceremonies and customs.

A detailed Aboriginal Heritage study has previously been prepared for the Goulburn Mulwaree LGA region by Australian Museum Business Services in 2012. Similarly detailed Aboriginal histories of the Marulan area are outlined in the Old Marulan Archaeological Investigations Final Report Volume 2 by Banksia Heritage + Archaeology /Umwelt in 2007.

This report summarises a brief history of the area from a wide range of sources including the above reports. Links to all sources are provided in **Section 15**.

5.2 Aboriginal Histories of the Locality

Aboriginal occupation of Australia began prior to 40,000 BP (years before present) and possibly earlier than 50,000 BP. Dates exceeding 20,000 years occur in almost all parts of Australia resulting in the expectation that most areas should have a Pleistocene (> 12,000 BP) occupational signature. However, such dates remain relatively rare due to a range of factors, both behavioural and post-depositional. These factors include a possible low density of occupation in the Pleistocene period, poor preservation of archaeological materials (particularly dateable organic materials) and significant coastline change over the past 18,000 years.

The earliest dated excavated archaeological site in the vicinity of Goulburn Mulwaree LGA is Birrigai rock shelter in the northern foothills of the Australian Alps (AMBS 2012). However, the majority of archaeologically excavated sites in the Goulburn Mulwaree region date to within the last 3,000 to 5,000 years, when the local climate and environment would have approached modern conditions (BRS 2018:12).

Climate dictated the transient movements of Aboriginal groups who developed a detailed knowledge of the available resources and their associated seasonal activity in the area, as well as accessing water through a network of perennial waterways. Waterway systems were important to the Aboriginal population. The Wollondilly and Cookbundoon river systems were home to a variety of wildlife, including eels, black swans, ducks and other water birds (AMBS 2012:14). These waterways provided more than purely food resources, they also provided resources used for currency and exchange such as river stones traded with Aboriginal groups further to the south in the Shoalhaven regions (Rivers of Carbon). Vital food resources in the area included kangaroos and wallabies, possums, bandicoots, emu, wild turkey, echidna, native ducks, fish and eels, freshwater mussels, snakes, native bees and ants (AMBS 2012:14).

AMBS (2012) reported that in 1836, Surveyor William Romaine Govett reported on the Aboriginal people of the County of Argyle and their customs through a series of articles in *The Saturday Magazine*. Govett noted that when Aboriginal groups hunted fire stick farming was used to capture kangaroos, which were then speared.(AMBS 2012:14 Govett 1977 [1836-7]:23). Govett also noted that insects were eaten alive and whole such as native bees, ants and ant eggs, whilst possums were caught by climbing trees notched by tomahawks (axes) and killing them with an axe blow (AMBS 2012:15; Govett 1977 [1836-7]:33-34).

The nearby area of Goulburn was considered a significant meeting place acting as a crossroads between Albury, Bathurst and the Nepean River. During this time Marulan was a crossover point and meeting place of several aboriginal groups including the Gundungurra and Wodi Wodi peoples. The nearby plains and the Wollondilly River also provided native game and fish for a number of the traditional Aboriginal peoples. Large gatherings of Aboriginal people took place in Goulburn, with records of corroborees being held at Rocky Hill, on the Wollondilly River, the Mulwaree Flats and the site where the Goulburn rail station is located now (Rivers of Carbon). Ceremonies also took place on the eastern side of Goulburn close to the Wollondilly River.

In most cultures, songlines and dreaming stories link the community. Cultural information received through preparation of this report indicates that the study area falls within songlines of Aboriginal people from north to south ceremonial sites associated with the 'Kangaroo song' being used within this region for travel purposes as recorded by Mitchell in 1828².

The study area traditionally known as the more southern reaches of Gundungurra Country and in the shared country region with Ngunnawal people situated on the pathway from the Wollondilly (Wallandilli) river, along Narambulla creek to the southern areas around present day Bungonia on the Shoalhaven. According to Mulwaree Aboriginal Community Inc, this pathway also leads to the ceremonial places further south including Nadgigomar. Thomas Mitchell's journals dated 31 May and 17 June 1828 provide a record of an event held near Goulburn and Towrang in NSW in which several songs were performed including the Kangaroo Song as transcribed below³

[Kangaroo song]

Gubi gubi gay gin ganba aei ganba geba gure gruen gay
(Spear thrown but misses the kangaroo)

Arabun uma enimya aray inglay wanumbula ingay enimili ingay
(Can't find the kangaroo)

Midme gurga enga mamega gangeroo abona tinnua erie cobua na nalluderra luba (
Kangaroo looks but sees nobody)

Burranbunga windeginye uringango kuto oringa tumbein gang cumbianga.
(Kangaroo turns away and the hunter kills it.)

Mitchell's journal recorded dated Saturday May 31st reads:

... The young men ... were of a gay disposition that night, for they sang several songs, one was that they called the Bathurst Song, another the Kangaroo Song, each line commencing "Kangaroo-oo" - one commences, and the others join in the words &c ... the old King [Moyengully, "king of the Nattai"] added his bass voice occasionally to the strain.

Mulwaree Aboriginal Community Inc provide information that:

Moyengully is the king of the Nattai (Gundungarra), and he has two younger fellows with him

- *INDIGENOUS (young men in Moyengully's band)*
- *MOYENGULLY (singer)*
- *PRIMBRUBNA (singer)*

The Gundungurra people are also associated with the dreamtime story of the creation of the rivers and caves of the Wollondilly and surrounding region and the struggle between Gurangatch and Mirrangan.

"Gu-rang-atch was one of the Burringilling - Dreamtime spirits, whose form was partly fish and partly reptile (Mulwaree Aboriginal Community Inc pers. Comm 28/04/22). Mirrangan was a large native cat and fisherman who used to search only for the largest kinds of fish. The story is from the Burratorang Valley and lower sections of the Wollondilly where the river is deep and has big water holes, reaching Guinacor (near Taralga NSW) and going to Jenolan Caves and then westward via the Coxs River system. The story was first recorded by ethnographer and surveyor R.H. Mathews between 1900-1901 who recorded the creation story of the Gundungurra people (pers comm 2022). This dreaming story holds connection between the Goulburn and Shoalhaven aboriginal groups where the story ends at the boundary of Goulburn Mulwaree LGA, where a Shoalhaven River story starts (AMBS 2012:13; Jenolan Caves Aboriginal Dreamtime Stories).

² Pers comm. Mulwaree Aboriginal Community Inc email dated 28/04/2022 – refer Appendix B

³ Fieldnote and sketch book, Sir Thomas Mitchell 1828-1830 (C42) (newcastle.edu.au) issued from pers comm. Mulwaree Aboriginal Community Inc email dated 28/04/2022 "Towrang would be the Mountain, also known as Tongobidia.

From the 1820s onwards, the establishment of farms and pastoral properties on the once open forest, resulted in cultivation of the land and an impact to the traditional ways of life (NPWS 2003:206). The change in land use had a serious impact on the availability of once abundant natural resources (Umwelt 2007: 37). Ultimately, very little information of the traditional lifestyle of the Ngunawal and Gundungurra was recorded at the time of European settlement.

5.2.1 POST CONTACT

Ethnographic accounts of Aboriginal people are mostly described as small groups who were under continual pressure and competition for resources as a result of the impact of European settlement. These records did not reflect the traditional customs of Aboriginal life, which were fluid and did not represent a static society. Pressures such as extended droughts, resulted into a change to subsistence patterns therefore movement through the landscape was necessary (Umwelt 2007: 40). Earliest encounters with Aboriginal people in this area include Wild, Throsby, Meehan and Mitchell who all benefited from the knowledge of Aboriginal guides on their environment and names of places (Umwelt 2007:40).

Early European settlement to the area began as early as 1798, with expeditions occurring south west of Sydney including explorers Henry Hacking accompanied by a convict Wilson, a lad Barracks and a man named Collins (RAHS 1946:107). Wilsons journey indicated he had not met Aboriginal people in this area; however this may be a reflection of the Aboriginal people wishing not to be seen (Umwelt 2007: 38). Records of the exploration were undertaken by John Price who indicated that explorers travelled through the area now known as Marulan to Mount Towrang. The area was associated with cattle grazing and was subsequently referred to as the 'Cow pastures'(Umwelt 2015:21)

Survey expeditions during this period made colonists aware of the grazing potential of the nearby Southern Tablelands (GMC). RAHS indicates that by 1818 explorers to the area included James Meehan, Charles Throsby and Hamilton Hume amongst others. Throsby who recorded in his journal on 24 March 1818, the group:

'Entered a large plain of flat Forest called by the natives Tallawoo from whence we saw the deep ravines running to Shoals Haven.' ... a "fine open forest called Moorooaulin' was reached".

It is thought that Throsby relied on an Aboriginal guide for his expeditions in the area, most likely a Gundungurra man, with Darug people also accompanying him and translated between the language groups (Umwelt 2007: 39). Hume is also believed to have spoken an Aboriginal language presumably Dharawal, however it is reported he may have been able to converse with the Gundungurra people as well (Umwelt 2007:39).

Large land grants were subsequently acquired in the area known Argyle as early as the 1820s as Governor Macquarie pushed for increased settlement to the south and large areas in the Marulan district were overrun by stockmen and later permanent settlers (RAHS 1946:107). This displaced local Aboriginal people from their traditional lands. In Argyle, the impacts from contact such as introduced diseases declined the aboriginal population over two-three generations with some family units most likely wiped out completely or reduced and reformed into new groups (Umwelt 2007: 42). This also led to a compromise to Aboriginal ceremonial life which is thought to have underpinned the connections between groups. (Umwelt 2007:40).

Land granted on the southern bank of the Wollondilly centred on two large estates belonging to Edmund Lockyer (Lockyersleigh) and Robert Howes estate Advance Australia which are located in the study area. These lands were considered to be of the best quality, well-watered and lightly timbered, with occasional rougher ground (Umwelt 2007: 57). Early exploration routes indicate that regularly used Aboriginal tracks occurred across the landscape, however it is not known if these tracks continued in use during European settlement. Roads were soon developed to access the properties such Riley's Road which accessed

Lockyersleigh, however it is noted this road was not an easy travel route, crossing numerous creeks and amongst other things founded on soil that became treacherous when wet (Umwelt 2007: 57).

Early Aboriginal tracks and exploration routes became roads providing easy access to new areas from the east. The Gundungurra people were dispersed from their traditional lands under Governor Macquarie's direction and took refuge in the hinterlands such as the Burragorong. However, later the Gundungurra fought for restitution of their lands in the 1860s. Aboriginal groups were quickly displaced from their land by squatters and through the establishment of government land grants. Stock stations were set up in the region by free settlers and emancipated convicts, especially during the 1830s. Conflict between Aboriginal people, shepherds and stockmen occurred during this time (Umwelt 2007: 43). It is reported that as the natural environment was heavily modified through grazing and drought conditions during this time and ungranted lands were used for temporary grazing, depleting birds and kangaroos who relied on the grasses for survival (Umwelt 2007: 43).

During the early 1800s, the rapid expansion of European settlement south west of Sydney severely impacted on the local Aboriginal people. It is important to note that introduced diseases such as smallpox and in some cases chickenpox severely affected the Aboriginal people as disease spread through the community (Umwelt 2007: 37,45). Aboriginal people were also subject to sexual assault and mistreatment by some stockmen (Umwelt 2007:43). In 1845 Francis Murphy of Bungonia reported that the formerly numerous Aboriginal populations had declined to an estimated 20-100 individuals and by 1848 the bench of Magistrates estimated that the local Aboriginal population consisted of only 25 people (GMC). Not only disease impacted on the decline of the Aboriginal people but weakening of social structures and loss of food sources with a changing environment (Umwelt 2007:37).

During the early 1800s rising tensions between the Aboriginal groups and settlers to the area led to guerrilla wars, characterised by raids on farms and their occupants, slaughtering of stock and destroying buildings, fencing and crops, however it is unclear to the extent of which the Gundungurra people were involved in this conflict (Umwelt 2007: 38-39). Generally, resistance in the Marulan area was considered to be small scale between settlers and Aboriginal groups, however it is recorded that ongoing hostility occurred between Gundungurra and the Wiradjuri to the west and north (Umwelt 2007:55).

At the emergence of pastoralism in the region, places for Aboriginal settlement diminished. The Aboriginal people, disconnected from their traditional ways, now considered 'fringe dwellers', were succumbed to labourer work for survival, with recruitment into the rural workforce as farm workers, stockmen and maids. Employment of Aboriginal people was seldom recorded, one record relevant to the study area does, however, mention the use of Aboriginal people in the area for rural work. In 1841 Major Lockyer indicated that:

...in his case, this would not make a significant difference ' they are diminishing fast: there are now very few remaining; I do not thin that ten of the Goulburn tribe are now to be found in the district⁴

A further disconnect also occurred on the Aboriginal people with European names being introduced and adopted (Umwelt 2007: 37-38). However, where the owner permitted, Aboriginal camps continued to exist on properties, most likely due to the intimate knowledge of the Aboriginal people of their local environment and horsemanship skills (Umwelt 2007: 52). Local Aboriginal people adapted to their changing environment and retained some traditional beliefs and languages. According to Govett, during the mid-1830s the traditional stone hatchets used by Aboriginal people had been replaced by European tools and spears began to be tipped with shards of glass (Govett 1835-6:11 op cit. Umwelt 2007: 44).

⁴ NSWLC V+P 1841 Committee on Immigration op cite Umwelt 2007: 52

Aboriginal peoples during the early colonisation period were observed wearing traditional clothing such as possum skin cloaks and animal hair belts. Cloaks were worn for protection and thermal regulation. A picture dated to 1836, shows a male and female wearing the traditional clothing as depicted by William Romaine Govett, (1807-1848) who sketched many early Australian nature and Aboriginal scenes. Govett's observations of Aboriginal people are an important record in recording their lives before European settlement encroached daily life (Umwelt 2007: 43).

Figure 3 – A sketch of Aboriginal people from the Mulwaree Plains 'dressed in their usual manner', 1836 ⁵



5.3 Recent Aboriginal History of the Locality

Since early European exploration and settlement from the early 1800s, Carrick and the Marulan area has undergone moderate physical and cultural change associated with land use such as intensive agriculture and quarrying. However, the broader area of Carrick, Marulan and Goulburn has continued to be utilised by Aboriginal people. Recent events undertaken in the area include annual reconciliation events such as NAIDOC week celebrating the importance of indigenous Aboriginal Culture.

In association with NAIDOC week in 2019, the nearby Boral Peppertree Quarry hosted an event focused on the significance of Aboriginal Cultural heritage relevant to both the site and surrounding area organised by the Boral Aboriginal Heritage Management Committee. Ongoing meetings continue to identify opportunities for Aboriginal people and large infrastructure companies to work together in the local community.

More recently a proposed Aboriginal Cultural Heritage Centre is to be developed near Marulan. The centre would be an asset to the local community, focussing on the local Aboriginal cultural heritage and provide an opportunity for tourism and knowledge of the area. The centre would act as an educational facility with a

⁵ Source AMBS 2012 Figure 4.1 (Govett 1977 [1836-7]:9)

display of Aboriginal objects and archaeological material recovered during excavations on at the Lynwood quarry site.

Local Aboriginal people continue to share their cultural knowledge and traditions to the younger generations through oral stories of dreamtime creations and significant events or places that shaped their history.

5.4 Previous Archaeological Assessments

To establish a background context in forming a predictive model for the likelihood of locating Aboriginal objects, and the likely places of such objects which may be located within the activity area, previous archaeological investigations have been examined. Several archaeological investigations have been undertaken in or in the region of the Marulan Solar Farm investigation area, summarised below.

Koettig Archaeological assessments 1981-1989

Koettig has undertaken several investigations near the study area. In 1981 Koettig surveyed the proposed route of the F5 highway from Hoddles Crossing to Alpine, north of Marulan. The survey identified twenty four sites, comprising of stone artefact scatters, scarred trees, rock shelters with art and/or archaeological deposit and grinding grooves. The latter two site types were associated with Hawkesbury sandstone some distance from the current study area.

Lance and Koettig (1986) prepared an Aboriginal Resources Planning Study for the City of Goulburn using archaeological, ethnographic, and environmental data and a sample survey to develop an Aboriginal site location model. Four landform zones were identified: major watercourses, undulating hills and plains, hill tops and built-up areas. These zones were assigned an archaeological sensitivity and site significance rating. Most sites within the Goulburn area were found to be stone artefact scatters located in the areas associated with undulating hills and plains, located predominantly on lower slopes adjacent to ephemeral watercourses.

In 1989, Koettig surveyed a proposed rural subdivision at Tallong east of Marulan. During this survey twelve Aboriginal sites were recorded. The sites consisted of two rock shelters with associated archaeological deposits, seven stone artefact scatters and three isolated finds. All the stone artefact scatters were associated with watercourses and silcrete was the dominant artefact raw material source, with quartz also present.

Gunlake Quarry Extension EIS (EMM 2016)

Extensive surveys of the areas subject of the Gunlake Extension Project were undertaken as part of the Aboriginal cultural heritage assessment for the EIS prepared by EMM. The assessment of Aboriginal heritage formed part of an EIS report for the extension of the Gunlake Quarry which is located approximately 4km to the northeast of the study area.

A field survey identified 15 Aboriginal sites within the extension area comprising of stone artefacts. Artefacts were in high frequencies on hill spur crests in the emplacement area.

Archaeological test excavations included eight test pit transects with 42 test pits exposed. All aboriginal sites were determined as having low archaeological significance except for one which was assessed as having moderate significance.

Open artefact sites are the most common site type found near watercourses such as streams, whilst isolated finds are less common, however, are also located near streams. Two modified trees were recorded to the south of the extension area associated with the Lynwood Quarry site. The sites occurring within the Gunlake extension boundary were considered low density artefact scatters which were relocated through the salvage program. The study identified that Aboriginal sites located to the south of the extension area are generally comprised of stone artefacts in low numbers.

Proposed Lockyersleigh Subdivision (Archaeological Heritage Surveys (AHS) (2005)

An archaeological assessment was undertaken by AHS in 2005 for a proposed subdivision of Lots 24,25, 41, 42 and 43 'Lockyersleigh', located across the MSF study area. A total area of 597 ha was surveyed. Preliminary archaeological assessment of the proposed subdivision was undertaken in 2004 (Saunders 2004) and a detailed archaeological survey of six targeted areas was undertaken in 2005. Previous land use history consisting of intensive agricultural practices such as cropping, and grazing had occurred on the site for a period of over 50 years. The study identified based on regional site location models, past land use history and environmental contexts the following site types were likely to occur within the study area: Open artefact scatters, isolated finds, scarred trees, or PADs.

Three sites were investigated within the study area. Survey Area 1, 2 and 3 were undertaken in the southern portion of the current proposed MSF site. Survey Areas 4, 5 and 6 are located to the immediate north of the host lot adjacent to the rail corridor.

During the survey a total of 33 Aboriginal sites were recorded comprising of 23 artefact scatters, one associated with a probable scarred tree and 10 isolated finds. Most sites were assessed as having low archaeological or scientific significance at local level, however, are culturally significant to the Aboriginal community. 8 sites were recorded in Survey Area 1 and 3, 14 in Survey Area 2 and 3 in Survey Area 4, with no sites located in the northern Survey Areas 5 and 6.

Five sites were assessed as having high archaeological significance on a local level, whilst one site associated with the probable scarred tree was assessed as having low to moderate archaeological significance on a regional level. Two Aboriginal sites were associated with watercourses of Osborns Creek and Narambulla Creek.

Based on the survey results and regional Aboriginal site location model, the study indicates that Aboriginal sites are likely to occur in low to very low densities in the area with localised concentration associated with major creeks. However, these sites are likely to have been subject to disturbance with low archaeological potential.

Marulan Gas Turbine Facilities (Biosis 2008)

A cultural heritage assessment of the proposed Marulan Gas Turbine Facilities was undertaken by Biosis in 2008, located approximately 11km north east of the study area. The results of preliminary archaeological survey and desktop assessment identified the region as representing high sensitivity for Aboriginal archaeological sites, particularly near watercourses such as the Wollondilly River, whilst other sensitive landforms occur on ridgelines and ridge saddles. Four Aboriginal archaeological sites were assessed as having moderate cultural significance and two sites were assessed as having low cultural significance. All sites represent the most common type of site (open sites) to be recorded in the region (Biosis 2008:58-59).

Aboriginal Heritage Study Goulburn Mulwaree LGA (Australian Museum Business Services (AMBS) 2012)

An extensive Aboriginal Heritage Study was undertaken in 2012 on the Goulburn Mulwaree LGA, prepared by AMBS for the Goulburn Mulwaree Council (which includes the study area). This study was prepared to inform future management of Aboriginal cultural heritage in the region, and to identify and record places of significance and develop management strategies of those places with involvement of the Aboriginal community. The study presents a detailed history of Aboriginal occupation in the Goulburn Mulwaree LGA. Figure 2.1 within the report identifies areas of Aboriginal sensitivity in the north west section of Goulburn Mulwaree LGA which covers the study area (AMBS 2012: 8). Similarly Figure 6.2 within the report identifies areas of Aboriginal heritage sensitivity in the north west section of Goulburn Mulwaree LGA which covers the study area (AMBS 2012: 34).

Lynwood Quarry Extraction Area Modification (Umwelt 2015a).

An ACHAR was prepared as part of the environmental assessment for the proposed Lynwood Quarry located 1.3km east of the MSF investigation area. This study identified that there were some implications for the broader Marulan area in relation to likelihood of site location, site type, contents, and integrity. The study outlined that overall artefact scatters and isolated finds were the most common site types recorded, found on lower slopes and adjacent to watercourses. Isolated finds and artefact scatters were also commonly found on spur crests and associated slopes leading towards a watercourse. Scarred trees are moderately rare site types and are not often associated with artefact or with PADs, however, are most often located in landforms consisting of mid slopes, spurs, or crests. Grinding bowls and stone arrangements are extremely rare site types.

The study identified that quartz and silcrete were the dominant raw materials used for artefact manufacture. Flakes, broken flakes, and flaked pieces were the dominant artefact types recorded with smaller numbers of retouched flakes and cores. Implement types such as stone axes and hammerstones were rare.

A high number of isolated finds and small artefact scatters represented low density consistent with transient use of the landscape. The past land use history of early European agricultural practices and sandy nature of the soil profile, integrity is unlikely, however, may remain in deeper soil horizons.

The study concluded within the broader Marulan area 81 sites (10 scarred trees, 25 isolated finds, 44 artefact scatters, one stone arrangement and a boulder containing a grinding bowl) have been proposed for conservation. Six of the artefact scatters, one isolated find and one scarred tree were assessed as having moderate to high or high likelihood of PAD, one artefact scatter was described as in deposits on a creek margin and was assessed as having moderate to high likelihood of PAD. Of the remaining sites 49 were assessed as having from low to a high likelihood of PAD.

Aboriginal Heritage Management Plan Lynwood Quarry (Umwelt 2015b)

A subsequent salvage excavation program occurred for the abovementioned quarry and Umwelt in 2015 prepared an Aboriginal Heritage Management Plan (AHMP) as part of the Development Consent (DA 128-5-2005) conditions for Holcim to establish the Lynwood Quarry, located approximately 1.3km east of the current study area. The aim of the assessment was to provide guidance to Holcim for the appropriate management of Aboriginal sites and landscape values in the project area.

A three staged salvage program was undertaken which identified 5 site types being artefact scatters, isolated finds, Potential Archaeological Deposits (PADs), stone arrangements and scarred trees. The stages were approved under an Aboriginal Heritage Impact Permit (AHIP) #1077225 and combined AHIP #1077294 for conservation, management and/or impact.

Preliminary Environmental Assessment Carrick Solar Farm (KMH/Pitt & Sherry 2017)

In 2017 a preliminary environmental assessment was undertaken on the MSF investigation area, prepared by KMH/Pitt & Sherry. This assessment indicated that no Aboriginal sites or places were recorded on the AHIMS database at the time within a 10km radius of the proposed MSF works area, however the assessment did identify that the site contains landscape features that increase the likelihood of the presence of Aboriginal objects. The site was considered low risk due to the level of ground disturbance in this area, however, further due diligence archaeological assessment was recommended. This assessment indicated that there were no recorded sites registered, however the AHIMS database indicates otherwise through a search undertaken by Premise (2020).

Peppertree Quarry Modification 4 Environmental Assessment (Element Environment)

An Aboriginal and historic heritage impact assessment was undertaken by EMGA Mitchell McLennan Pty Ltd as reported in the Peppertree Quarry Modification 4 environmental assessment, to assess whether the new Southern Overburden Emplacement for the Peppertree Quarry Modification would result in any impacts on Aboriginal and historic heritage values. The quarry is located to the southeast of the study area.

The majority of the new Southern Overburden Emplacement was proposed on land that had not been previously assessed for Aboriginal heritage values and was assessed as having low to moderate archaeological sensitivity. Although this area had been subject to surface disturbance associated with historic agricultural activities, it had the potential to contain Aboriginal artefacts and other Aboriginal cultural heritage values. The landscape of the proposed Southern Overburden Emplacement was considered to have areas of moderate and low archaeological sensitivity. The surrounding landscape contains watercourses, moderate and steep slopes, some areas of gentle slopes and a ridgeline overlooking the Barbers Creek gorge. The emplacement area itself is located on a ridge, with different slope gradients throughout.

The emplacement was located in a ridgeline landscape that has been previously investigated in excavations for Peppertree Quarry, the Limestone Mine and throughout the wider Southern Tablelands region (see ERM 2006 below). The results of previous assessments indicated that areas of ridgelines generally contain artefact densities of less than five artefacts per square metre and a low background scatter of artefacts, indicating the likelihood of low-density scatters within the development modification.

Marulan South Quarry Environmental Assessment Report (ERM, 2006), Peppertree Quarry Archaeological Excavation Report (ERM, 2012)

ERM prepared an Aboriginal heritage assessment as part of the Marulan South Quarry Environmental Assessment Report (ERM, 2006). The assessment identified 11 sites, comprising predominantly silcrete and quartz flakes and cores, within the Quarry footprint and a proposed water storage dam along Tangarang Creek. A large-scale test and salvage excavation was undertaken in 2010 – 2011 prior to commencement of quarry operations in areas along the Tangarang Creek, and later an archaeological survey was undertaken in 2015.

The test excavation targeted high risk landforms across the Quarry area and sampled along linear transects. A total of ten test transects covered six landforms within the Tangarang Creek Dam area and another three outside this area. Test pits were located at 5m intervals along each transect. This resulted in the excavation of 103 test pits and a total of 2,089 artefacts recovered. The areas determined for salvage excavation were based on the results of the test pits. Ten open area trenches were expanded and salvaged. These ten trenches were divided into four hills. A total of 122m² of open excavation was undertaken with 20,956 artefacts excavated.

During the open area excavation, a number of high-density artefact concentrations, hearths and ovens and a human burial were uncovered. Salvage excavation results identified higher artefact concentrations, suggesting a varied and long-term use of the area. The dominant artefact type consisted of flakes with backed artefacts, cores and retouched flakes also present. Raw material types included silcrete, quartz, quartzite, and chert as dominant materials. Chalcedony, basalt, and granite artefacts were present in low numbers.

The results indicated that preferred camping areas were located on shallow hill slopes and hill tops associated with Tangarang Creek, representing long term and frequent use of the area, and perhaps used as a trading or ceremonial location, due to the size and type of artefacts found and the location of the quarry site in relation to the four Aboriginal clan groups. Most of the study area comprised of cleared grassed paddocks resulting from historic vegetation clearance, which may have slightly displaced Aboriginal objects, however, disturbance was generally low.

Other Investigations

A survey undertaken for a proposed mushroom farm in 1997 near Marulan identified three artefact scatters and three Isolated finds representing an extensive high-density site beside Narambulla Creek, with artefacts eroding out of the creek banks and the adjacent terraces and grassy flats (Dearling 1997). The site contained a diverse range of artefact and raw material types. Other sites included two artefacts on a low spur 250m from Narambulla Creek and two isolated quartz artefacts more than 900m from a water source.

5.5 Archaeological Context Summary

The extensive archaeological investigations both within and surrounding the study area as summarised in **Section 5.4** indicate that:

- Stone artefact sites (isolated finds and artefact scatters) are the most recorded site types in the area, with PADs, stone arrangements and scarred trees less common. Other site types, such as grinding grooves and burials, are rare.
- The predominant raw materials used for stone artefact manufacture are quartz and silcrete.
- Flakes, broken flakes, and flaked pieces are the dominant artefact types with implement types such as hammerstones and stone axes being rare.
- Sites tend to be associated with lower slopes located adjacent to watercourses or found on spurs, crests, and ridgelines.
- Generally, sites are represented in low densities.
- The area has been subject to extensive agricultural practices associated with cropping and grazing.
- According to ABMS, previously recorded Aboriginal sites within the Goulburn Mulwaree LGA generally occur in the vicinity of watercourses, in elevated areas, and in areas with suitable geology or mature vegetation.

5.6 Predictive Model

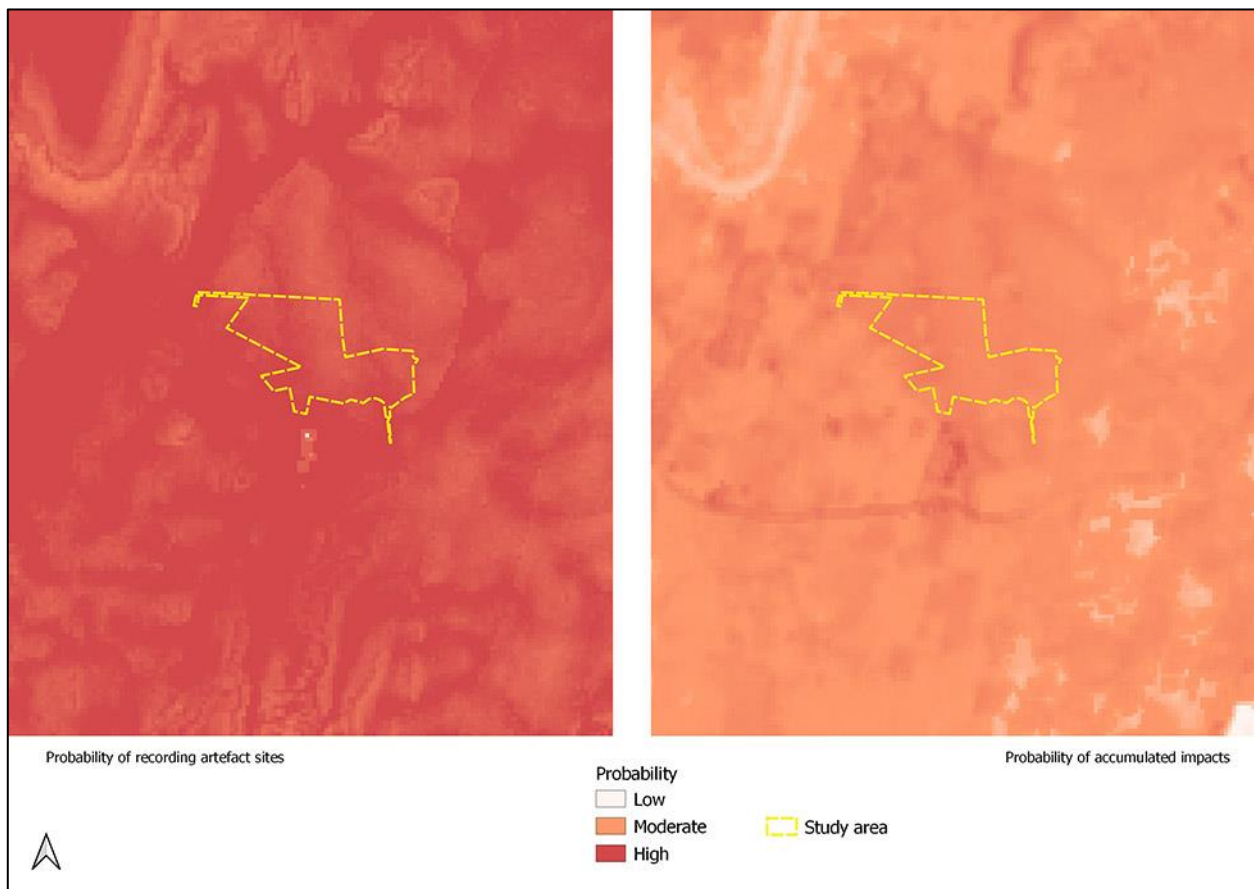
Aboriginal site features occur across the entire landscape; however, some parts of the landscape have a greater capacity to contain certain site features or features of different types. The variation in site feature likelihood across the landscape is useful for planning assessments of potential site impacts. The Aboriginal Site Decision Support Tool (ASDST) has been developed to support the assessment Aboriginal sites issues in NSW at the landscape-scale. The tool extends the AHIMS data by illustrating the potential distribution of site features recorded in the database through site predictive modelling. ADST Mapping was prepared for the Survey Methodology issued to RAPS for the MSF prior to site inspection (refer **Appendix F**).

Two models have been mapped for the MSF regarding artefact site probability and accumulated impacts (**Figure 4**).

These models show:

- The study area models as an area with low to moderate potential to contain stone artefact sites. The probability of recording artefacts sites in the study area is lower than in surrounding landforms and is higher along the waterways within the study area.
- The ASDST accumulated impacts model indicates low to moderate levels of disturbance throughout the study area, indicating that sites have an increased likelihood of being in their original context.

Figure 4 – ASDST predictive modelling of the study area



5.7 Settlement Strategies

There appears to be a range of settlement strategies in the region of the study area depending on the geography of a particular area.

In landforms associated with undulating hills and plains, such as those within the study area, the dominant site type has been found to be stone artefact scatters located predominantly on lower slopes adjacent to ephemeral watercourses (for example Lance and Koettig 1986, AHS 2005).

Investigations to the east of Marulan where the topography includes ridges and escarpments, a very different range of sites such as rock shelters and grinding grooves have been recorded. Also in this topographic zone, sites tend to have a greater artefact density and a greater complexity of artefact types (for example Koettig 1981, Koettig 1989, ERM 2012).

Investigations in topographies that share the two topographic zones discussed above, such as EMM 2016, demonstrate that artefact sites dominate, particularly on hill spur crests and near watercourses. Investigations such as EMM 2016 that included wooded areas can also record modified trees. However, generally the sites recorded away from areas with a greater variety of topographic features have a low artefact density.

In topographies like the study area, past investigations, such as AHS 2005, have demonstrated that Aboriginal sites are likely to occur in low to very low densities with localised concentrations associated with major creeks. However, these sites are likely to have been subject to disturbance and have low archaeological potential.

From the available evidence it appears that the steeper topographies to the east of Marulan were more favoured occupation areas, probably due to the greater variety of resources available, as well as greater opportunity for shelter which is an important need in the region. Conversely, occupation on the more open plains where the study area is located appears to have been either short-term or sporadic.

5.8 Previously Recorded Sites

Previously recorded sites were identified through the AHIMS search outlined in **Section 6**. These recordings indicate that artefact scatters and isolated finds were the most common site types recorded, often recorded on lower slopes and adjacent to watercourses. Isolated finds and artefact scatters were also commonly recorded on spur crests and associated slopes leading towards a watercourse. Scarred trees are moderately rare site types and are not often associated with artefact or with PADs, however, are most often located in landforms consisting of mid slopes, spurs, or crests. Grinding bowls and stone arrangements are extremely rare site types.

Regional studies indicate that quartz and silcrete are the dominant raw materials used for artefact manufacture. Flakes, broken flakes, and flaked pieces were the dominant artefact types recorded with smaller numbers of retouched flakes and cores. Implement types such as stone axes and hammerstones were rare.

5.9 Landform Modelling

The survey area consists of low gradient undulating landforms with little landform differentiation. Previous archaeological investigations of this type of topography suggests that low-density artefact scatters and isolated finds would be the primary site types recorded. Further, these sites are likely to be associated with the waterways within the study area.

Based on our understanding of settlement strategies in the area (**Section 5.7**) landforms, such as those represented in the study area, were not favoured for long-term camping. While the creek systems were visited, these visits were either short-term or sporadic with more favoured occupation areas being in steeper country to the east of the study area.

5.10 Predictive Modelling for the Study Area

Based on the previous archaeological investigations in the region, predictive modelling of the landform suggests that archaeological sensitive areas mainly occur on creek banks, adjacent alluvial and colluvial terraces, gently sloping low hillslopes and crests.

Based on knowledge of the environmental contexts of the study area and a desktop review of the known local and regional archaeological record, the following predictions are made concerning the probability of those site types being recorded within the Study Area:

Isolated finds may be indicative of random loss or deliberate discard of a single artefact, the remnant of a now dispersed and disturbed artefact scatter, or an otherwise obscured or sub-surface artefact scatter. They may occur anywhere within the landscape but are more likely to occur in topographies where open artefact scatters typically occur.

- As isolated finds can occur anywhere, particularly within disturbed contexts, it is predicted that this site type could be recorded within the study area. A low number of isolated finds were recorded in the assessment for the proposed Lockyersleigh Subdivision partially located within the study area (AHS 2005).

Open artefact scatters are defined as two or more artefacts, not located within a rock shelter, and located no more than 50 m away from any other constituent artefact. This site type may occur almost anywhere that Aboriginal people have travelled and may be associated with hunting and gathering activities, short- or long-

term camps, and the manufacture and maintenance of stone tools. Artefact scatters typically consist of surface scatters or subsurface distributions of flaked stone discarded during the manufacture of tools but may also include other artefactual rock types such as hearth and anvil stones.

Artefact scatters are most likely to occur on level or low gradient contexts, along the crests of ridgelines and spurs, and elevated areas fringing watercourses or wetlands. Larger sites may be expected in association with permanent water sources.

Topographies which afford effective through-access across, and relative to, the surrounding landscape, such as the open basal valley slopes and the valleys of creeks, will tend to contain more and larger sites, mostly camp sites evidenced by open artefact scatters.

- Artefact scatters comprise most of the recorded sites within 3km of the study area and are likely to be recorded in the study area, probably associated with waterways. It is noted that the ASDST predictive modelling (**Section 5.10**) indicates that there is a low to moderate probability of recording this site type in the study area. However, knowledge of settlement strategies in the region (**Section 5.7**), as well as the impact of previous land use (**Section 4.4**), it is likely that if artefact scatters are recorded that they will have a low artefact density and will likely be in a disturbed context.

Aboriginal scarred trees contain evidence of the removal of bark (and sometimes wood) in the past by Aboriginal people, in the form of a scar. Bark was removed from trees for a wide range of reasons. It was a raw material used in the manufacture of various tools, vessels, and commodities such as string, water containers, roofing for shelters, shields and canoes.

- Vegetation within the study area is mostly comprised of pasture species and there are very few native trees. Therefore, this site type is not expected to be recorded in the study area.

Quarry sites and stone procurement sites typically consist of exposures of stone material where evidence for human collection, extraction and/or preliminary processing has survived. Typically, these involve the extraction of siliceous or fine grained igneous and meta-sedimentary rock types for the manufacture of artefacts. The presence of quarry/extraction sites is dependent on the availability of suitable rock formations.

- This site type could be recorded within the study area should suitable rock outcroppings be available. A quarry site has been previously recorded near the boundary of the study area and it is possible that further evidence of quarrying activity will be recorded in the study area associated with this site (51-6-0372; LA17).

Burials are generally found in soft sediments such as aeolian sand, alluvial silts, and rock shelter deposits. In valley floor and plains contexts, burials may occur in locally elevated topographies rather than poorly drained sedimentary contexts. Burials are also known to have occurred on rocky hilltops in some limited areas. Burials are generally only visible where there has been some disturbance of subsurface sediments or where some erosional process has exposed them.

- Potential burials have been identified in the local area (see ERM 2012). These sites are more likely to be found on elevated sandy contexts or in association with rivers and major creeks. No such landscape features exist with the study area and therefore burials are unlikely to occur.

Bora/Ceremonial sites are places which have ceremonial or spiritual connections. Ceremonial sites may comprise of natural landscapes or have archaeological material. Bora sites are ceremonial sites which consist of a cleared area and earthen rings.

- This site type does not necessarily follow landform predictability and are, overall, a rare site type with a low likelihood of being present and remaining extant due to the historical land use of the study area.

6. ABORIGINAL HERITAGE INFORMATION MANAGEMENT SYSTEM (AHIMS)

Heritage NSW (formerly OEH) maintains the Aboriginal Heritage Information Management System (AHIMS) database, a register of Aboriginal archaeological sites that have been recorded in New South Wales. A preliminary basic search of the AHIMS database within a 200m buffer from the host lot was undertaken on 5 November 2020 (Client ID: 547712). This search indicated 23 recorded sites within the locality of the proposed MSF investigation area, noting that, of the 23 recorded sites, five are located within the study area, with a sixth outside but adjacent to the study area.

A more recent AHIMS search was undertaken on 24 February 2022, using the same parameters (Client ID: 662244). The AHIMS search provides an archaeological context for the area and identifies whether any previously recorded Aboriginal sites are located within or near the study area. The parameters of the search were as follows:

GDA 1994 MGA 55 **Lot 55 DP DP1141136**
Buffer **200 m**
Number of sites **24**

A total number of 24 Aboriginal archaeological sites were identified in the extensive AHIMS search area. This includes the recent artefact (AHIMS #51-6-0908) located on site during site survey. The distribution of recorded sites within the AHIMS search area is shown in **Figure 5**. Heritage NSW-lists 20 standard site features that can be used to describe a site registered with AHIMS, and more than one feature can be used for each site.

The frequency of recorded site types is summarised in **Table 7**. For the 24 sites within the search area, three site features were recorded. The majority of recorded sites (97%) are artefacts (n=22).

Table 7 – Recorded Site Types for MSF AHIMS Search

Feature	Number	Percentage %
Artefact	22	92%
Artefact, Potential Archaeological Deposit (PAD)	1	4%
Artefact, Stone Quarry	1	4%

There were six (6) recorded sites identified in the impact area with a seventh site located adjacent to, but outside of, the study area. All six recorded site types within the study area are recorded as artefact sites. The site located adjacent to the study area is recorded as a stone quarry. Recorded sites within the study area are shown in **Figure 6**.

All registered sites in the AHIMS search consist of open site contexts. One site is associated with PAD and artefact, one site is associated with a stone quarry and artefact, and the remaining 22 sites are recorded as artefacts. As per **Figure 7**, the area of the quarry is excluded from the development footprint and would not be impacted by the project.

The nature and location of registered sites reflects past Aboriginal occupation of the land; however, the sites are also influenced by historical land-use, and the nature and extent of previous archaeological investigations. Although Aboriginal occupation covered the whole of the landscape, the availability of fresh water, and associated resources, was a significant factor in repeated and long-term occupation of specific areas within the landscape. Potential impacts of the proposed MSF may also include disturbance of unknown Aboriginal heritage sites.

The locations and details of Aboriginal sites are considered culturally sensitive information. It is recommended that this information, including the AHIMS data, is removed from this report if it is to enter the public domain.

Figure 5 – AHIMS Search

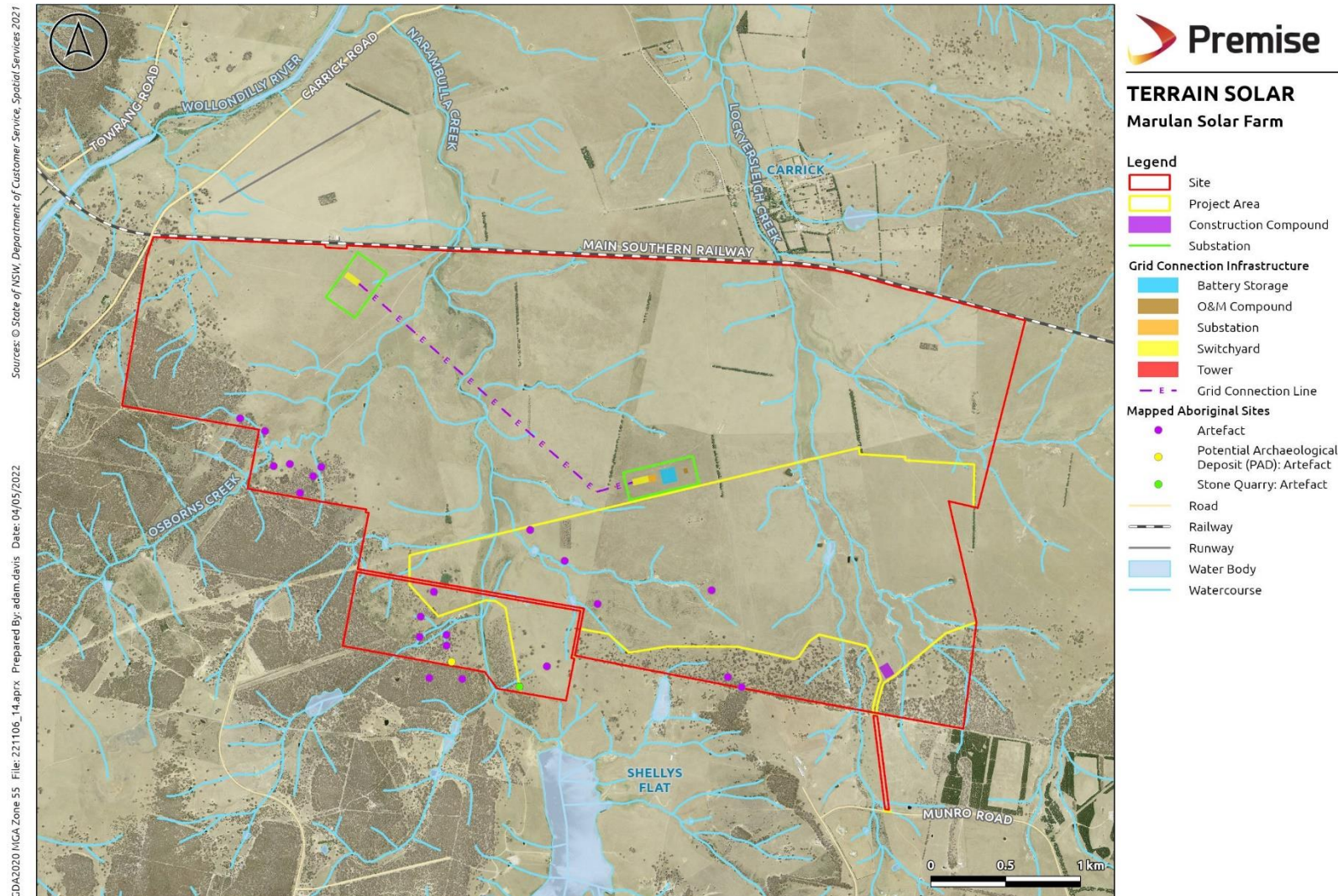
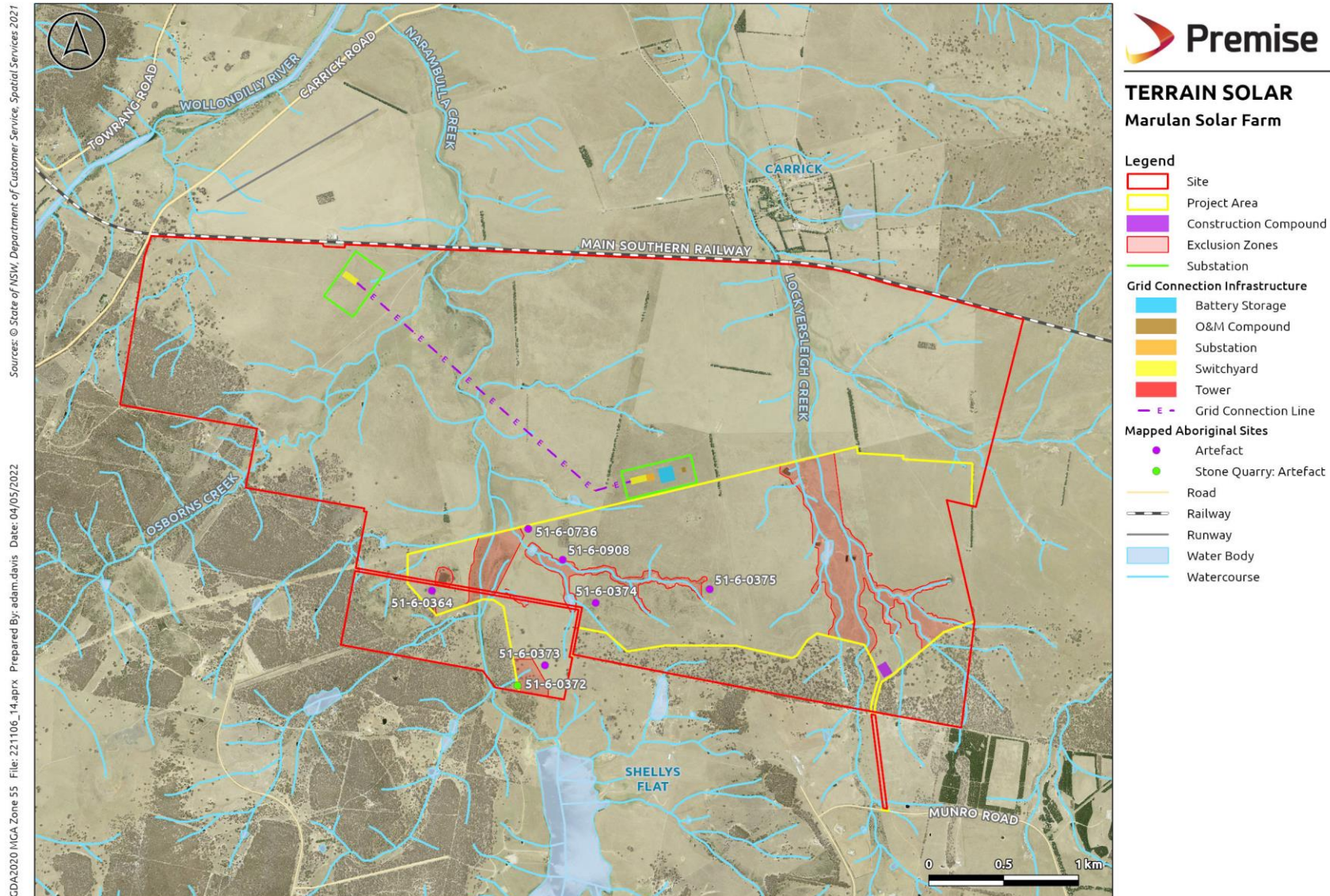


Figure 6 – AHIMS within Study Area



7. ARCHAEOLOGICAL SURVEY

An archaeological survey was undertaken on the study area in 2021. The survey was conducted by one team consisting of two qualified archaeologists and one representative from Pejar LALC. The survey was undertaken through pedestrian and vehicle transects, traversing the large area of the host lot. Predefined transects (59 in total) were followed during the survey. During the survey weather conditions fluctuated however only small periods of heavy rain slightly halted the fieldwork.

The main objective of the site survey was to characterise the archaeological potential of the different landforms within the study area.

The site survey covered areas of higher archaeological sensitivity located around watercourses and areas previously recorded with archaeological potential within Lot 55 DP 1141136 via pedestrian survey shown in **Figure 7**. The remaining survey areas were undertaken via vehicular access. This was undertaken to facilitate efficient coverage of the study area and cover areas with poor ground visibility due to intense ground coverage.

The host lot is actively used for agricultural grazing of sheep and cattle. During the survey some areas were waterlogged from recent wet weather events. This had the effect of promoting dense vegetation, which constrained surface visibility. Survey transects were modified slightly to maximise visibility and access areas of higher sensitivity. This included utilising drainage line exposures, erosion areas and other moderate visibility locations where they were encountered, as well as transects through pasture.

During the archaeological survey, one isolated stone artefact was recorded. Site location and artefact attributes were recorded on a hand held Garmin Magellan GPS.

No cultural information was provided during the site survey and no concerns with the proposed development were raised during this period.

7.1 Aims and Objectives

The aims and objective of the archaeological survey were to:

- Assess the Aboriginal archaeological values of the study area in accordance with the Code of Practice.
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works.
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

As set out in the Code of Practice, the aim of any survey is not to locate every artefact or other archaeological feature in a landscape. Rather, the aim is to adequately assess all representative landforms within a study area so that the archaeological characteristics of those landforms can be understood. In this way the survey will provide sufficient information for the archaeological potential of all landforms within the study area to be assessed allowing appropriate management strategies to be devised.

7.2 Timing and Personnel

The archaeological site survey was conducted over three days between 28 – 30 September 2021 by qualified personnel Ben Churcher (Archaeologist, OzArk) and Latisha Ryall (Archaeologist, Premise). A representative of the Pejar LALC was also in attendance (refer **Appendix F**).

7.3 Survey Methodology

As defined in **Section 3.3** a survey methodology was prepared for the MSF project and issued to RAPS on 24 August 2021.

The survey methodology was prepared considering the following requirements:

- To survey an adequate sample area that will be impacted by the proposed MSF development including the solar investigation area and the buildable footprint (as defined as the 'study area' in this document).
- To provide an opportunity for the RAPS to visit the proposed development site and to provide cultural knowledge including intangible knowledge of the area.
- To consider site management and constraints for the proposed development area.
- To ensure that the RAPS are satisfied that the survey effort was adequate.

Based on the predictive modelling set out in **Section 5.6**, the study area was divided into two zones:

- **Zone 1.** Areas with higher archaeological potential. These landforms are near waterways and previously recorded sites. Previous archaeological investigations in the region suggest that these landforms will have a low density of artefacts and site types will be confined to artefact scatters with a low artefact density and isolated finds.
- **Zone 2.** Areas with low archaeological potential. These landforms are distant to waterways within an undifferentiated, low gradient topography. Previous archaeological investigations in the region suggest that these landforms will have a very low density of artefacts and site types will be mostly confined to isolated finds.

The field survey was conducted using pedestrian transects for high potential areas, with lower potential areas being sample surveyed. A focus on areas with higher archaeological potential such as exposures near waterways or along tracks or where ground disturbance had occurred such as fence lines was undertaken.

A photographic record was kept of the landform elements, disturbance of the site and ground conditions. All Aboriginal objects identified during the site survey were adequately recorded to the standards subscribed in the Code of Practice. All previously recorded sites were surveyed so that their current condition could be assessed.

7.4 Survey Results

The archaeological survey was undertaken in accordance with the above methodology, along predefined transects and concentrated on landforms with greater archaeological potential. Landforms with lower archaeological potential were assessed through spot checks in the form of vehicle transects but not systematically surveyed. **Figure 7** shows an aerial image with delineated survey tracks of one of the three surveyors.

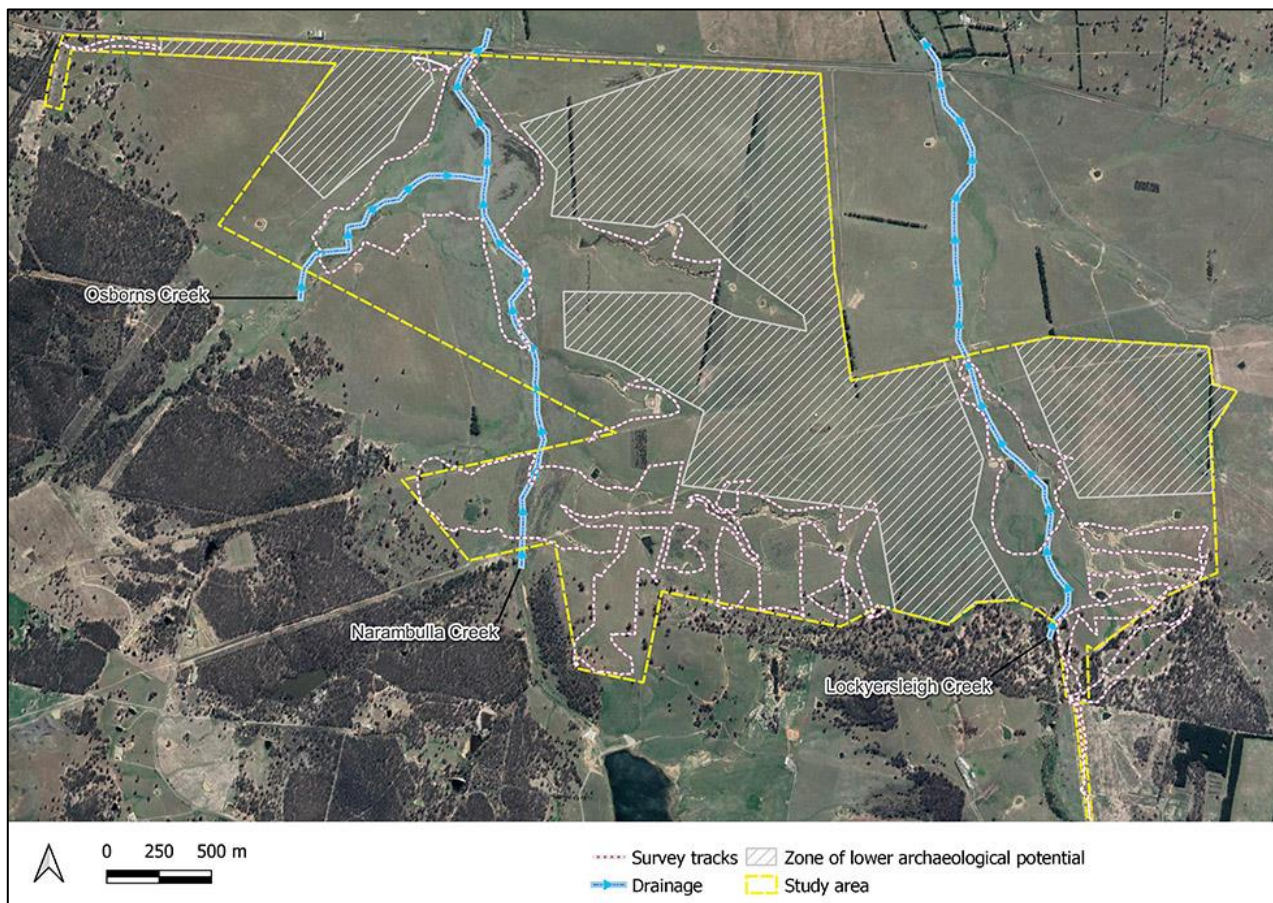
During the survey one newly recorded isolated quartz artefact was recorded (AHIMS #51-6-0908). The artefact was found in a disturbed context on a farm track in a mid-slope landform (refer **Section 7.5** and **Appendix I**).

While all previously recorded sites within the study area were revisited, no surface artefacts were visible at any location (AHIMS ID #51-6-0364, #51-6-0373, #51-6-0374, #51-6-0375, #51-6-0376).

A stone quarry is located immediately outside of the study area was also unidentified (AHIMS #51-6-0372).

The major constraint to the survey was generally low ground surface visibility that ranged from zero to around 40% where features such as tracks afforded a view of the ground surface. Nevertheless, the survey was able to characterise the archaeological potential of landforms within the study area, although the test excavation program set out in **Section 8** provides further certainty to this assessment.

Figure 7 – Survey Tracks



The survey demonstrated the following landform characteristics of the study area:

- The major creek within the study area is Nambulla Creek that flows in the western portion of the study area. Nambulla Creek is within a relatively broad alluvial valley consisting of the main creek channel, overflow channels, and abandoned channels. The valley, particularly in the broader portion in the north of the study area, is boggy, although the main channel becomes more defined within a narrower valley in the south. Adjacent slopes descend directly into the alluvial valley without areas of terraces or creek flats (**Figure 8**)
- Osborns Creek within the study area is likewise in a broad alluvial valley without associated terraces or creek flats. Osborns Creek joins Nambulla Creek within the study area in a widespread area of boggy, dark, alluvial soil and water tolerant plants such as tussock grasses and spiny rush (**Figure 8**)
- Lockyersleigh Creek within the study area is within a narrower valley compared to Nambulla Creek, but unlike Nambulla Creek, is incised and heavily eroded (**Figure 9**). Tributaries flowing to Lockyersleigh Creek from the south-eastern corner of the study area are similarly eroded (**Figure 10**). It is suspected that these tributary channels would not have been evident prior to land clearing and subsequent sheep grazing
- Other landforms outside of the creek channels consist of simple slopes and spurs, often impacted by contour banking.

Of the total area of the study area (approximately 798ha), approximately 356ha is classed as Zone 2. Therefore, approximately 45 percent of the study area is classed as Zone 1 and was subject to more intensive survey.

In terms of previous Aboriginal settlement in the study area, it is considered that the creek valleys of Narambulla, Osborns and Lockyersleigh Creeks would have provided resources but not occupation areas due to their nature as low gradient, braided creek channels consisting of alluvial soils that tend to be boggy in wetter seasons. The incised channels present today along Lockyersleigh Creek, and its tributaries would not have been present pre-1788 and the study area would have presented as a broad area of swampy creek channels surrounded by low hills. As the creek systems lack terraces or creek flats, any longer-term occupation would have been on the more elevated adjacent landforms where level benches were available.

The study area is best characterised as 'open' without shelter from the colder westerly winds and few sheltered locations such as narrow valleys. The implication is that the study area was probably more intensively used seasonally in the warmer months and that larger base camps were probably located outside of the study area in more sheltered locations that exist to the immediate west and south, and further afield, to the east.

All portions of the study area have undergone considerable impact from the first period of colonisation. This includes wide-spread vegetation clearance and long-term grazing by hard hoofed animals. These factors have led to widespread issues with erosion (assisted by the dispersible granite-based soils). To combat the erosion, soil conservation measures have been implemented including fencing off eroded waterways from stock and the construction of extensive contour banking. The result of these impacts on the archaeology of the study area has resulted in extensive soil loss (potentially removing or dispersing stone artefact sites) and the potential removal of entire classes of sites such as culturally modified trees, stone arrangements and even burials, had they existed. Photographs taken during the survey of the study area are provided to help gain a visual impression of the study area.

Figure 8 – View of Narambulla Creek



Figure 8 shows the Narambulla Creek valley looking south. There is a broad alluvium channel demarked with the red arrows. This area consists of the main creek channel, as well as associated overflow channels, in generally boggy terrain. The Pink arrow demarks the confluence of Narambulla Creek with Osborns Creek. The same waterlogged characteristics and boggy terrain were observed. The blue arrow demarks the course of Narambulla Creek within the study area. Note that while the creek valley narrows in the south, the creek channel remains boggy. The landforms denoted in yellow indicated (approximately) the more elevated landforms outside of the creek channels. These landforms consist of simple slopes and minor spurs, and it can be noted that the slopes descend directly to the creek channels without terraces or dry creek flats.

Figure 9 shows the deeply incised nature of Lockyersleigh Creek looking south east. Also visible to the west (right) of the main channel is an overflow channel. At present, the main channel of the creek is close to the adjacent slopes to the east (left) and the western edge of the alluvial channel for the creek can be seen by the line of tussock grasses that border the channel and the adjacent slopes to the right. This view shows the alluvial channel being restricted by adjacent slopes in the foreground and then opening towards the south with the visible dam in the distance at the centre of the channel.

Figure 10 shows a western view of the numerous tributary channels to Lockyersleigh Creek in the south-eastern portion of the study area. These tributaries illustrate the severe erosion that has occurred. It is unlikely that these tributaries would have been channelised prior to 1788 but rather water would have flowed across the surface in a dispersed manner. Therefore, these channels should not be seen as features that would have attracted Aboriginal occupation in the past.

Figure 9 – View of Lockyersleigh Creek



Figure 10 – View of tributaries to Lockyersleigh Creek



7.5 Narambulla Creek IF-1 (AHIMS #51-6-0908)

During the archaeological survey one newly recorded isolated quartz artefact was identified (AHIMS #51-6-0908).

The artefact was located in the southern portion of the study area in an open site context, with the condition of the site characterised as poor. The artefact was located in a disturbed context on a farm track in a mid-slope landform within Lot 55 DP1141136. The landform is characterised by cleared vegetation with an approximate distance to water of the Narambulla Creek being 460 m

The complete artefact measured 25 x 21 x 8 mm in size with a tertiary stage of reduction.

The artefact has likely been moved from its original location through water movement.

Assessment of the cultural significance of AHIMS sites previously recorded indicates that the study area has not been identified as contributing to the cultural values of the study area, however it is acknowledged that Aboriginal people often believe that artefacts, even when displaced, contribute to the cultural landscape. It is acknowledged that they are markers of past occupation and a tangible connection to ancestors.

The location of AHIMS #51-6-0908 is provided in **Figure 11 - Figure 13** and shown in **Figure 14**.

Figure 11 – Location of isolated find in SU1 view south



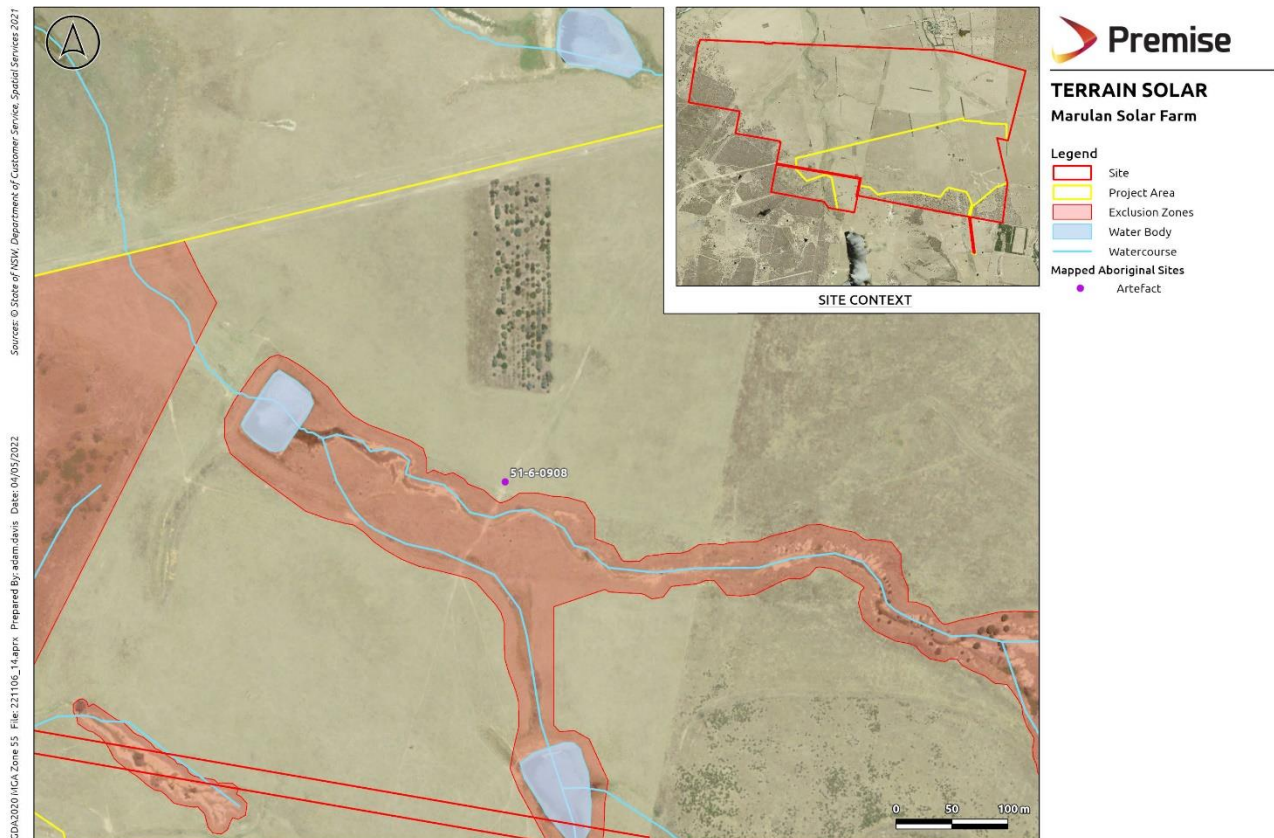
Figure 12 – Isolated find quartz artefact



Figure 13 – Location of isolated find in SU1 view west



Figure 14 – Location of Narambulla Creek IF-1 (AHIMS #51-6-0908)



The site card is provided in **Appendix I**.

7.6 Landforms Likely to Preserve Archaeological Deposits

Archaeological Heritage Surveys (Patricia Saunders) was commissioned to undertake an assessment of Lots 24, 25, 41, 42 and 43 (constituting approximately 2500 hectares [ha]) on the 'Lockyersleigh' property which includes part of the study area (Saunders 2005) (refer **Section 5.4**). Survey areas were assessed for their archaeological sensitivity based on previous archaeological research, topography, and prior land use. As a result, six areas of particular sensitivity were identified for intensive survey, and these included:

- Elevated land associated with Osborns Creek (Area 1 = 75 ha).
- Narambulla Creek (Area 2 = 148 ha).
- Lockyersleigh and Joarimin Creek (Area 3 = 135 ha).
- Lightly timbered low gradient slopes and drainage lines in the north-eastern corner of the proposed subdivision (Area 4 = 219 ha).
- A section of Lockyersleigh Creek, adjacent flats and locally elevated areas overlooking the flats (Area 5 = 12 ha).
- A basal slope/crest beside Narambulla Creek (Area 6 = 6 ha).

The survey, among other findings, located what was described by Saunders (2005) as two site complexes, one associated with Osborns Creek the other associated with Narambulla Creek (both of which are within the study area, although the identified site complexes are outside the study area: see below **Figure 15**). The sites within the site complexes were described as follows:

Osborns Creek Complex

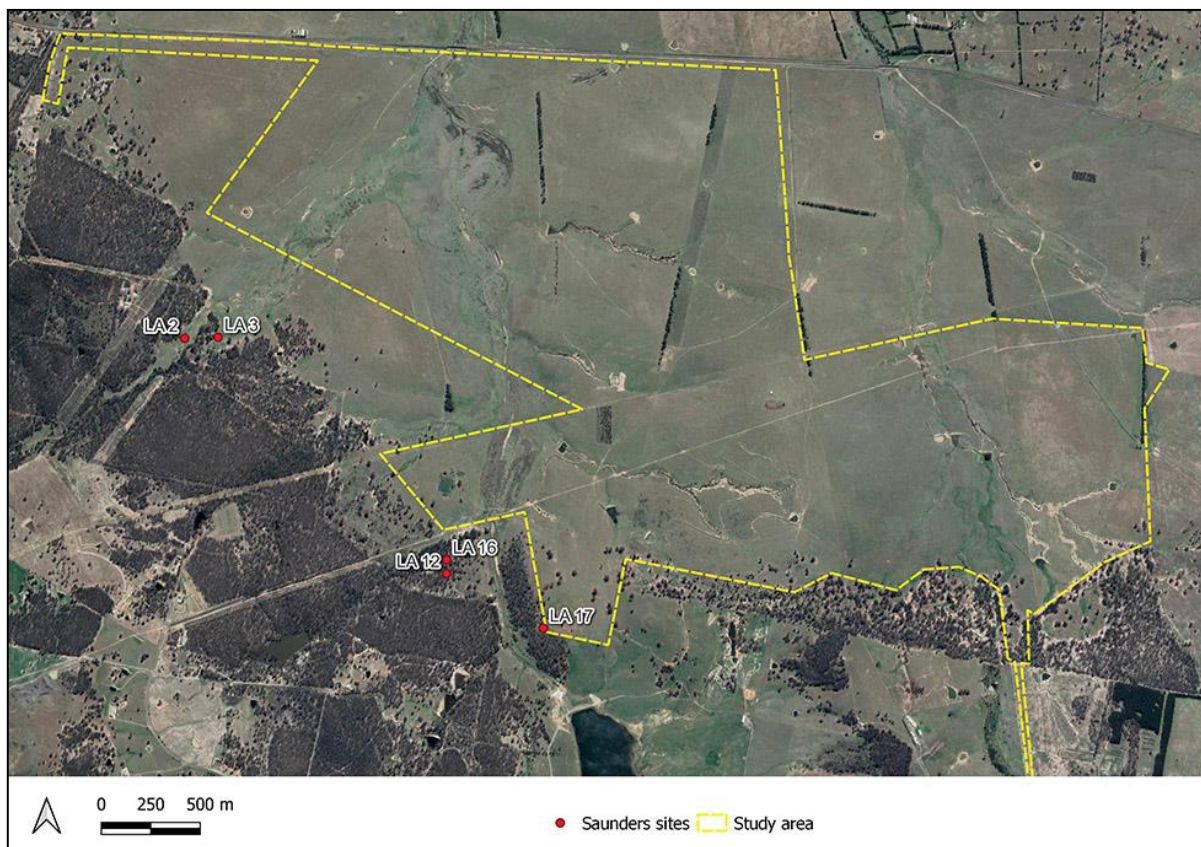
- Osborns Creek – LA2 – 50 to 100 artefacts within a site area of 25 metres by 12 metres. Artefact types included flakes and cores manufactured from silcrete and quartz.
- Osborns Creek – LA3 – 74 artefacts within a site area 90 metres by 10 metres. Artefact types included flakes, flaked pieces, cores, and flaked pebbles manufactured from silcrete, quartz, quartzite, chert and tuff.

Narambulla Creek Complex

- Narambulla Creek – LA12 – 51–100 artefacts within a site area 80 metres by 12 metres. Artefacts included flakes, flaked pieces, cores, and a backed blade manufactured from silcrete and quartz.
- Narambulla Creek – LA16 – 100+ artefacts within a site area 150 metres by 80 metres. Artefacts included flakes, flaked pieces, cores, chips, modified flakes and at least one hammerstone. The artefacts were manufactured from silcrete, quartz and volcanic.
- Narambulla Creek – LA17 – 100+ artefacts within a site area 270 metres by 30 metres. Artefacts included flakes, flaked pieces, and cores manufactured from silcrete and quartz.

These sites are close to, but outside of, the study area. As was noted above, topography is important in determining the location of sites. Whereas the sites in Saunders' complexes often had in excess of 100 artefacts, the sites recorded nearby although within the study area (LA9, LA18, LA19 and LA20 (3, 2, 2, and 1 artefacts respectively) had a significantly lower artefact densities. As Saunders' site complexes are closer to the shelter of the neighbouring hills to the west of the study area, the implication is that these ecotones were more favourable long-term occupation locations when compared to the open, rolling hills of the study area; even if the sites are in relative proximity.

Figure 15 – Site complexes recorded by Saunders



Following these observations of topography, Umwelt 2005, noted in their survey of the then proposed Lynwood Quarry that most sites were found to be located along watercourses with 24 of the 50 sites located within 30 metres of a watercourse. In terms of landform, 22.9 percent of sites were located along the banks of minor tributary channels and 29.2 percent were located along the banks of the higher order tributary channels. Away from watercourses, 10.4 percent of sites were located on lower spur slopes, 10.4 percent on the midslopes of spurs and 4.1 percent located on the upper slopes of spurs. Spur crests and saddles contained 22.9 percent of the sites; although, as noted by Umwelt, the survey ground surface visibility was a determining factor in site visibility.

Similarly, subsequent surveys at the Lynwood Quarry, Umwelt (2007a, 2007b) recorded 15 sites, nine of which were located on spur crest landforms, four on slope landforms (two upper slope, one footslope, and one lower slope), and two sites were located on rocky spur crest landforms. Six of the sites were located within 30 metres of a watercourse, two sites were located 30 to 50 metres from a watercourse, and seven sites were located more than 50 metres from a watercourse.

The results of both Umwelt surveys conform to the general pattern of site distribution whereby there is a strong correlation between watercourses and Aboriginal occupation. However, in the case of the study area, it has already been noted that the nature of the watercourses cannot be related to those encountered by Umwelt at Lynwood in their 2005 survey as they lack 'banks' (a landform that accounted for 52.1 percent of all Umwelt sites). Rather, the broad alluvial channels present in the study area lack a clearly defined permanent channel but are rather a floodway of migrating channels and overflow channels where one would not expect archaeological deposits to be retained, had they ever existed. As such, the Umwelt 2005–2007 findings at the Lynwood Quarry have limited application to the study area, except in noting that a number of sites were also recorded in spur and crest landforms in association with water; landforms that are present in the study area.

Umwelt also undertook extensive archaeological surveys for Old Marulan (2007c) which provides an extensive Aboriginal history of the study area.

In terms of subsurface archaeological excavation, Umwelt (2013) undertook a major program of excavation between 2007–2001 which followed surface survey and a test excavation program. In total, 5217 artefacts were recovered from 37 sites. Surface artefacts were collected from 13 of the 37 sites and subsurface artefacts were recovered from 34 of the 37 sites (most of these sites were located through the subsurface testing program rather than the surface survey). Of the 5217 stone artefacts recovered, 526 were from surface collection with the remaining 4691 artefacts were recovered during the subsurface testing and salvage program.

Of the 34 sites where artefacts were recovered from a subsurface context:

- Nineteen sites had less than 10 artefacts.
- Seven sites had 10 to 20 artefacts.
- Two sites had between 20 and 50 artefacts.
- Three sites contained between 200 and 500 artefacts.
- One site had between 500 to 1000 artefacts.
- Two sites had greater than 1000 artefacts.

The three sites with over 500 artefacts included MRN73 (761 artefacts, gentle lower slope above Marulan Creek [sic, from the mapping it would appear MRN73 is associated with a creek north of Marulan Creek]), MRN27 (1314 artefacts, spur crest and adjoining slope to Joarimin Creek) and MRN54 (1392 artefacts, spur crest and adjoining slope down to Joarimin Creek). The overall subsurface artefact densities were much higher in MRN27 (32.85/m²), than MRN54 (0.4/m²) and MRN73 (0.05/m²).

Across the whole excavation program, 77.2 percent of sites were located on a spur crest and 20.5 percent were located on spur crests and adjoining slopes. The remainder of sites were in slope or saddle landforms.

In summary the Umwelt investigations demonstrated that:

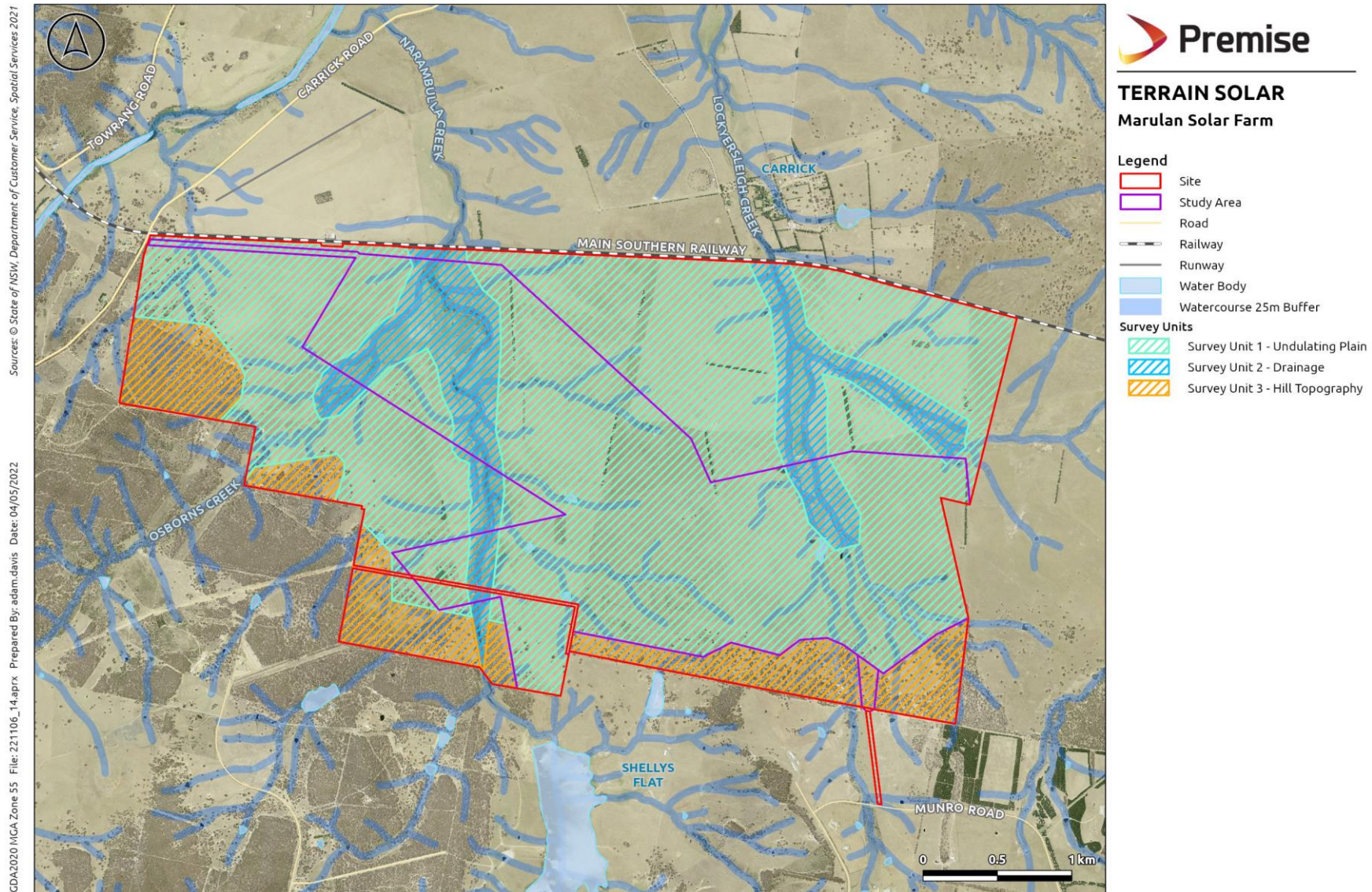
- Most sites were located close to watercourses.
- Sites located close to watercourses tended to contain relatively higher numbers of artefacts than those sites further away from a watercourse.
- Most sites contained less than 10 artefacts.
- Only one site (MRN27) had more than 50 surface artefacts.
- Quartz and silcrete were the most common raw materials used for artefact manufacture recorded within the surface assemblage during survey.
- Flakes, broken flakes, and flaked pieces were the dominant artefact types recorded within the surface assemblage during survey.
- The dominant raw materials and artefact types identified within the surface assemblages were generally similar to the dominant raw materials within the subsurface assemblages.
- Sites with low numbers of surface artefacts generally also had low numbers of subsurface artefacts except for site MRN25, where the number of subsurface artefacts was higher than anticipated.
- Although the results of the surface survey and testing program were comparable in terms of which landforms were most likely to contain sites, the test program did identify a greater use of the gentle slope landform than reflected by the survey results due to poor ground surface visibility in these heavily grassed areas.
- The larger sites within both the surface surveys and test program were found to be located on spur crests and their adjoining short, low gradient slope down to a watercourse.
- The high proportion of isolated finds and small artefact scatters suggests a general low density background scatter of artefacts that most likely reflects transient use of the landscape rather than periods of occupation and/or camping with just a few locations targeted for camping.

7.7 Survey Units

The study area is located within a moderately modified landscape which has been subject to extensive agricultural grazing and clearing of natural vegetation from its original landform. Infrastructure disturbance has also occurred across the site with the placement of transmission lines and a high pressure gas line bisecting the site. Three survey units (SU) were identified during the site survey and consist of undulating plains, drainage lines associated with semi-permanent creeks and hill topography.

Overall there was low survey efficacy due to lack of visibility and this may have contributed to the lack of recordings, indicating a low likelihood of artefacts. Landforms identified as more likely to contain Aboriginal sites include the Narambulla, Osborns and Lockyersleigh Creek lines, and larger areas of exposure located on the eastern portion of the site. Survey Units are shown in **Figure 16**. Photographs of Survey Units 1, 2 and 3 are shown in **Figure 17 - Figure 28**.

Figure 16 – Survey Units



7.7.1 SURVEY UNIT 1

Survey Unit 1 (SU1) consists of undulating plains located across the study area. This landform consists of cleared pastoral land with low gradient slopes and ephemeral drainage channels. There is also evidence of heavily eroded creek banks. Within SU1 ground coverage was high, with low exposure areas mostly found along vehicle and stock access tracks with an overall low visibility. Areas of exposure and higher visibility were also found along the eroded creek banks and along contour banks. The landform features of highly eroded areas associated with Lockyersleigh Creek are not considered historical watercourses, however, and were formed post 1788 after colonisation.

In total approximately 1031.83 ha (10,318,300m²) of this landform type was surveyed with 0.47% effective survey coverage.

Vegetation located within this survey unit consist of exotic species such as Marulan grasses, soft bromes (*Bromus hordeaceu*), wild oats (*Avena fatua*), couch (*Cynodon dactylon*), cocksfoot (*Dactylis glomerata*) and cloves. Small evidence of spear grass (*Austrostipa scabra*) is also located across the site. Evidence of bioturbation was noted across most of the site from grazing stock and wombat burrows.

Within this survey unit on the western extent a locally listed European heritage item is also located – The Ruins of Kyle.

Figure 17 – SU1 area showing plains, view east



Figure 19 – View south across SU1



Figure 18 – Undulating plain, view northwest SU1



Figure 20 – Undulating plains across SU1, view east



7.7.2 SURVEY UNIT 2

Survey Unit 2 (SU2) consists of the major watercourses located within the study area being the Narambulla Creek and confluence with Osborns Creek located in the western portion of the study area and Lockyersleigh Creek located in the eastern portion of the study area.

Watercourses draining into Narambulla, Osborns and Lockyersleigh Creeks include recent alluvial channels with nil chance of archaeological potential or retaining intact sites due to the swampy conditions. Overall visibility in SU2 was low, with nil ground exposure.

In total approximately 191.92ha (1,919,200m²) of this landform type was surveyed with 0.05% effective survey coverage.

Vegetation in this survey unit consists of tall sedge (*Carex appressa*) and river tussocks (*Poa labillardierei*) on banks and common reeds (*Phragmites australis*) in water.

The western portion of Narambulla Creek is defined as an Ecological Environmental Community (EEC)

Figure 21 – Narambulla Creek view north



Figure 22 – Narambulla Creek view south



Figure 23 – Narambulla Creek extent of waterlogged areas in northern portion of study area



Figure 24 – Drainage channels associated with Lockyersleigh Creek view west



7.7.3 SURVEY UNIT 3

Survey Unit 3 consists of Hill topography associated with the southern and western boundaries of the host Lot. The landform here transitions from the undulating plains to moderate and steep hill slopes characterised by moderate to dense woodland. These locations would be more preferential for retaining archaeological material where shelter was present near the Narambulla, Lockyersleigh and Osborns Creeks.

In total approximately 181.79ha (1,817,900m²) area of this landform type was surveyed with 4.32% effective survey coverage.

Overall visibility in this area was moderate, with exposure areas located around base of trees.

Figure 25 – Hill Topography – south eastern boundary



Figure 27 – Woodland located on south eastern boundary of proposed impact area



Figure 26 – Woodland view southern boundary



Figure 28 – Hill Topography showing the south western portion of study area



7.8 Survey Coverage

A summary of survey coverage, in accordance with the Code of Practice, is outlined in **Table 8** and **Table 9**. Most of the study area was covered in dense grass coverage and/or waterlogged areas associated with creek lines resulting in nil to low visibility across the study area. Areas of exposure were only visible in the eroded creek beds, along vehicle tracks or along fence lines resulting in moderate visibility. Higher visibility was also observed during woodland areas on the southern boundary.

The survey focused on assessing evidence of the study area's land use history and previous archaeological assessments in the area were used to inform archaeological potential.

A section of land to the north and north west contained portions of Narambulla and Osborns Creeks, whilst an area in the east and south east of the study area contained portion of Lockyersleigh Creek and heavily eroded creek beds, which provided slightly higher visibility of the ground surface.

In summary, there was a low survey efficacy due to low visibility across the study area. However, there were sufficient exposures near drainage lines where the archaeological potential was greater, and this allowed the archaeological potential of the study area to be understood. The regional model of past Aboriginal settlement indicates that elevated landforms adjacent to drainage lines were an optimal occupation area. In the study area, these landforms were often without exposures, however, the general description of the topography is long simple slopes descending directly into the drainage line where camping activities would not have been possible. In the few areas where there were flatter, elevated landforms adjacent to waterways, the test excavation program was utilised to investigate these landforms (i.e. Locations 1, 2, 3, and 4, see **Section 8**).

Table 9 indicates that the low number of recordings made during the survey may be attributable to the low survey efficacy. However, while the low ground surface visibility certainly may have contributed to the lack of recordings, archaeological investigations in the region, and particularly the previous survey of the study area by Patricia Saunders, indicates that the rolling plain landforms have a much lower artefact density when compared to landforms within the sheltered hills to the south and east of the study area. Therefore, while low density artefact scatters or isolated finds may have been obscured, the available information suggests that large, significant sites are absent in the landforms that characterise most of the study area.

Table 8 – Survey Coverage

Survey Unit	Landform	Survey unit area (ha)	Visibility %	Exposure %	Effective Coverage area (ha)	Effective Coverage %
1	Low Undulating Plain	1031.83	12.2%	3.9%	4.9	0.47%
2	Drainage lines	191.92	4.7%	1%	0.09	0.05%
3	Hill topography	181.79	37.9%	11.4%	7.85	4.32%

Table 9 – Landform Summary

Landform	Landform area (ha)	Area effectively surveyed (ha)	% of Landform effectively surveyed	Number of Sites	Number of artefacts or features
Low Undulating Plain	1031.83	4.9	0.47%	1	1
Drainage Lines	191.92	0.09	0.05%	0	0
Hill Topography	181.79	7.85	4.32%	0	0

8. TEST EXCAVATIONS

As a requirement of the SEARS (SSD 13137914) an archaeological test excavation program was undertaken for the MSF project. The SEARS issued on 8 February 2021 state:

Heritage NSW advises that a full archaeological assessment, including test excavations, is required because Aboriginal sites with subsurface potential have already been identified within the project area. Test excavations need to be undertaken as part of the upfront EIS assessment to inform the design and approvals process for the whole area that will be affected by the development.

While the survey did not identify locations where it was thought likely that subsurface archaeological deposits of conservation value are present, it is noted in the advice provided by Heritage NSW that:

At the immediately adjacent Lynwood Quarry, research has shown that surface artefact assemblages in this region are not a reliable indicator of the density of subsurface artefacts: 526 artefacts were recorded on the surface but 4,691 were recovered from salvage excavations (Umwelt 2013). Cultural Heritage Management Zones have been established to the east of the current project area at Lynwood to protect important areas. Highly significant cultural values have also been identified to the north of the proposed Marulan solar farm.

8.1.1 TEST EXCAVATION

A test excavation program was carried out over two periods from the 20 - 22 December 2021 and from the 22 to 23 February 2022. The results of the Test Excavation program and artefact analysis are provided in **Appendix H**.

8.1.2 AIMS

The objectives of the test excavation program were to:

- Carry out test excavations as per the SEARS requirement (SSD 13137914).
- Carry out test excavations as per the *Code of Practice for Archaeological Investigation of Aboriginal objects in NSW* (Requirements 14–17).
- Assess the Aboriginal archaeological potential of certain areas within the study area.
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.
- Utilise information from previous investigations in the area to target particular landforms within the study area and investigate landforms which have recorded artefacts in the past, as well as landforms where no surface artefacts have been identified.
- To provide a spatial spread across the study area.
- To focus efforts on elevated, level landforms near water.

Due to the more open nature of the topography, large sites such as those that have been recorded at the Lynwood Quarry were absent in the study area and represented lower density background scatter of artefacts that most likely reflects transient use of the landscape rather than longer periods of camping.

Larger sites are located in neighbouring areas that are characterised by more sheltered terrain as indicated by Saunders (2005) with smaller sites located within rolling hills in the study area. Low density surface sites have been recorded in the study area.

In accordance with requirement 15c of the Code of Practice (2010), notification for the test excavation program was provided with a minimum 14 day period (refer **Section 8.1.5**).

8.1.3 TEST EXCAVATION METHODOLOGY

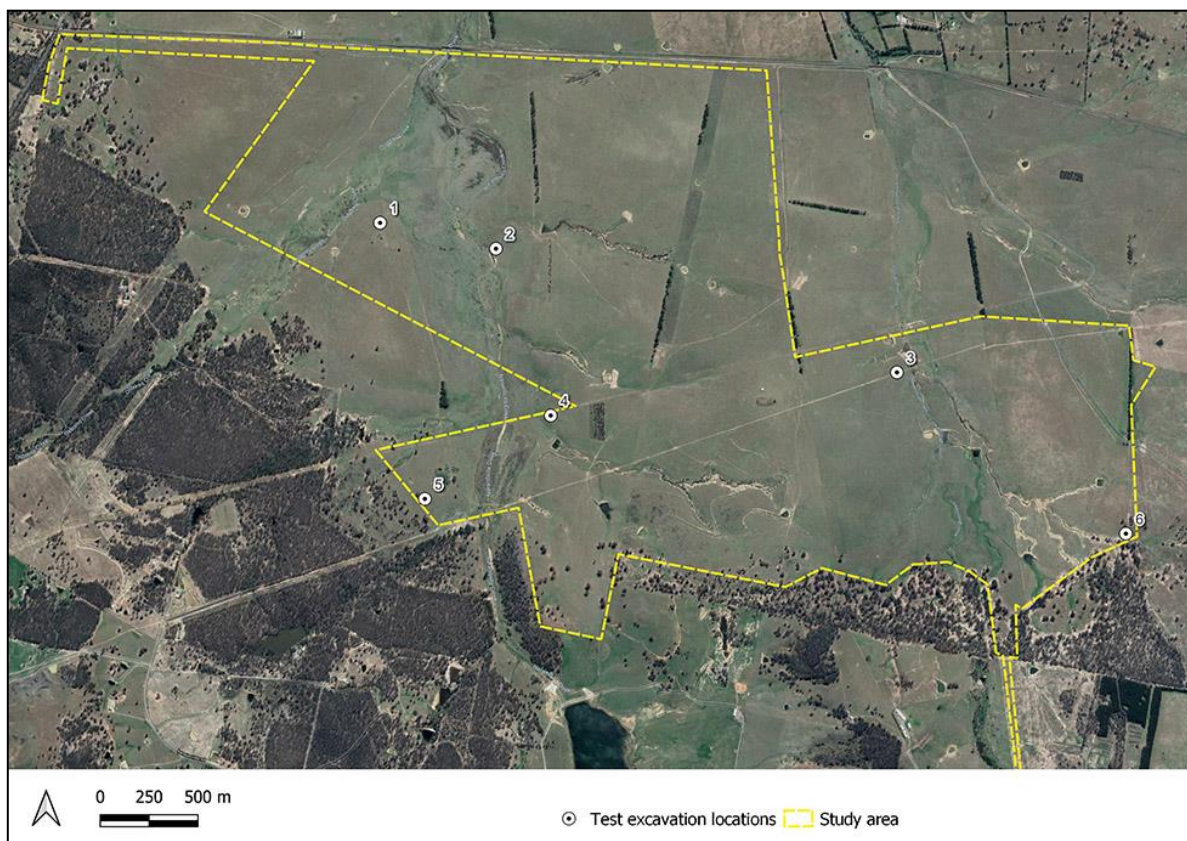
Test excavations were carried out in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal objects in NSW* (Requirements 14–17). It is noted that an Aboriginal Heritage Impact Permit (AHIP) was not required prior to the excavations commencing.

The test excavation program targeted six locations as detailed in **Table 10**. Proposed test locations are shown in **Figure 29** and distribution of test pits are shown in **Figure 30**.

Table 10 – Test Excavation Locations Rationale

Location	Rationale
1	Elevated bench overlooking the confluence of Narambulla and Osborns Creeks. No previous site recorded at this location. Western side of Narambulla Creek
2	Level elevated landform associated with Narambulla Creek. No previous site recorded at this location. Eastern side of Narambulla Creek
3	Level elevated landform associated with Lockyersleigh Creek. No previous site recorded at this location. Western side of Lockyersleigh Creek
4	Previously recorded site (HSP13, 51-6-0736, artefact scatter). Located on a flat bench within a spur overlooking Narambulla Creek. Eastern side of Narambulla Creek
5	Previously recorded site (LA9, 51-6-0364, artefact scatter). Located on a flat bench overlooking Narambulla Creek. Near historical ruins (a location often selected for the same reasons as Aboriginal occupation). Western side of Narambulla Creek
6	Level landform associated with tributaries to Lockyersleigh Creek. On the eastern boundary of the study area close to the Lynwood Quarry

Figure 29 – Proposed test excavation locations



8.1.4 SAMPLING STRATEGY

The excavation program was undertaken by a team of three archaeologists and five RAP representatives over five days refer **Table 4** and **Table 5**. A sampling strategy for the excavation is outlined in the Test Excavation Methodology (refer **Appendix G**).

Overall a total of six (6) locations were investigated across the study area with 12 excavation squares excavated at each location separated by 10m intervals. Overall a total of 72 test pits were excavated.

All excavation units were undertaken by hand and recorded by the Excavation Director. A photographic record was taken of each square with associated section drawings completed. Initial excavation squares were excavated in five centimetre (cm) spits to determine whether archaeological stratigraphy was present. The spit size then increased to 10cm depths. The material was subsequently sieved on site using a dry sieving method. Once the program was finished, the sieved material was used to backfill the exposed excavation units.

The distribution of test excavation locations is provided in **Figure 30**. Photographs of test pits are provided in **Appendix H**.

Test excavations were undertaken in accordance with the Code Requirement 16a, point 9:

Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.

8.1.5 COMPLIANCE WITH THE CODE REQUIREMENT 16

Compliance with Requirement 16 of the Code of Practice for the test excavation program was achieved as outlined in the Test Excavation Methodology (refer **Appendix G**). The test excavation program was undertaken in accordance with the requirements set out in the Code of Practice under the responsibility of OzArk, who ensured that these requirements were met on site and met compliance.

8.1.6 GENERAL TEST EXCAVATION RESULTS

A total of 72 test pits were excavated in the test excavation program for this project. **Figure 30** shows the distribution of test pits. **Figures 46-51** show sample photographs of the test pit location transects.

Testing locations 2, 3, 4 and 6 were undertaken during the December 2021 excavation program, whilst test locations 1 and 5 were undertaken during the February 2022 test program. Overall, five out of six locations recorded artefactual material being Locations 1-5.

Two sites Location 4 and 5 were expansions of previously recorded sites AHIMS ID #51-6-0736 and AHIMS ID #51-6-0364.

Through the test excavation program, historical material was also recorded at Location 5, demonstrating that there was disturbance at this location, potentially related to the occupation at the nearby Ruins of Kyle. It is interesting to note that a knapped glass artefact was also recovered at Location 5, reworked from a bottle by Aboriginal people to create a sharp blade, indicating that Aboriginal people may have been occupying the site in the post contact period. It is therefore possible that the artefacts recorded at Location 5 are associated with an Aboriginal camp associated with the Kyle settlement.

Overall, the highest density of artefacts was recorded at Location 5, The soil profile generally consists of sandy loams transitioning to damp soils with some gravel, stone, and iron inclusions in some areas. As an example, Location 2 excavated pits demonstrate alluvial profiles with iron inclusions, transitioning to sandy loams and then to damp soils, whilst in Location 4 consists of a mixed context soil profile with gravel and stone inclusions on the upper slope transitioning to colluvial profile down slope.

No additional archaeological excavation squares were undertaken as expansion of test pits was not warranted.

Consideration of regional data provides indications of occupation around the hills to the south and east of the study area, with some camping activities evident in the rolling hills of the study area. Analysis of test excavation findings indicates that habitation usage within the study has occurred by larger more complex groups of Aboriginal people for periods of time within the last 7,000 years, with activity predominantly occurring around the area associated with the Narambulla Creek.

Artefacts were predominantly collected from the top soil and the underlying sandy loam within the upper 15cm of the soil profile.

No charcoal of cultural origin was observed during the test excavation program.

No faunal remains were recovered during the test excavation program; however, it is noted that the area has been subject to extensive bioturbation, which has altered the archaeological record and has had some impact on the vertical displacement of smaller artefacts.

A total of 203 Aboriginal objects were collected from 19 out of 72 (26.4%) 0.5 x 0.5m test squares during the testing program, with the highest concentration of artefacts recovered from location 5 at the western extent of the study area. The excavated lithics consist of several raw material types including:

- Silcrete.
- Indurated Mudstone, Silicified Tuff, Chert (IMSTC).
- Quartz.
- Quartzite.

The most commonly occurring raw material within this assemblage was IMSTC. The second most commonly occurring raw material was silcrete which does not occur naturally on site and has therefore likely been brought in for use.

The artefact assemblage comprised of 106 flakes without retouch, five retouched flakes, 78 flaked pieces and 14 cores. The most commonly occurring artefact type is the flake without retouch comprising 52.22% of the total assemblage. The second most commonly occurring type is the flaked piece which comprises 38.42% of the total assemblage; cores make up the third most commonly occurring artefact type comprising 6.9% of the total assemblage; and retouched flakes comprise 2.46% of the assemblage. The five retouched flakes all measure 30mm or less in length and are, according to Gould's (1969: 235) classification, microliths.

The flakes in the assemblage comprise feather, step (outré passe) and hinge terminations.

Artefact numbers per trench provide information on determining the intensity of Aboriginal activity in an area (Stening 2020), since higher artefact numbers indicate more intensive use of the landscape. Within this assemblage, artefact numbers per trench range from zero to fifty. The lower numbers indicate areas of the site that were used less intensively by Aboriginal people, while the higher artefact numbers indicate areas that were quite intensively utilised by Aboriginal people. The highest artefact numbers were in test location 5.

Eight artefacts were analysed as being heat treated located within test locations 4 and 5. Heat treatment was used on both silcrete and IMST materials.

The presence of several microliths in the artefact assemblage are indicative of the Australian small tool tradition and the Bondaian phase of the Eastern Regional Sequence. The Bondaian phase dates no earlier than 7,000 BP (Stening 2020, 29).

No residue or use wear analysis has been undertaken to date which would assist in determining exactly what activities were taking place on site, however the artefact analysis indicates that larger more complex groups of Aboriginal people were camping near Narambulla Creek and occupying the area for shorter periods of time. The creeks and swamps would have provided fresh water and floral and faunal resources. Some raw materials may have been present within the study area with other raw materials being transported to site for the manufacture of small tools.

At the completion of testing, recovered artefacts were transported to the OzArk office from where they were collected by Premise. Artefacts were then transferred to Unearthed Archaeology & Heritage for analysis and currently remain in position of Unearthed Archaeology until the analysis is complete. Once complete, the artefacts will be transferred back to Premise where they will be kept at a locked location until repatriation of the artefacts occurs.

Excavation results have been used to advise further courses of action in relation to the management and mitigation options for the proposal and recorded in this ACHAR as per Requirement 11 of the Code of Practice.

Once all salvage activities for this proposal are complete, artefacts will be either be subject to a future care agreement negotiated between the RAPs and Heritage NSW; or reburied in accordance with Requirement 26 of the Code of Practice. The long-term management of any recovered artefacts will be determined in consultation with the RAPs.

Results showing test excavation analysis are provided in **Appendix H**.

Artefact densities recorded at each location are summarised in **Table 11**.

Table 11 – Test Excavation Results

Location	Features	No. Artefacts Recorded	Context	Landform
1	Silcrete and quartz flakes and flaked pieces	4	Square 8 Spit 2	Elevated bench overlooking the confluence of Narambulla and Osborns Creeks. No previous site recorded at this location. Western side of Narambulla Creek.
2	IMSTC and quartzite flake	2	Square 7 Spit 2 Square 11 Spit 2	Level elevated landform associated with Narambulla Creek. No previous site recorded at this location.
3	IMSTC flake	1	Square 5 Spit 1	Level elevated landform associated with Narambulla Creek. No previous site recorded at this location. Eastern side of Narambulla Creek.
4	Quartz flaked piece and IMSTC, quartz and Silcrete flakes	11	Squares 1,2,8,9 &10 Spits 1,-3	Previously recorded site (HSP13, 51-6-0736, artefact scatter). Located on a flat bench within a spur overlooking Narambulla Creek. Eastern side of Narambulla Creek.
5	Quartz, silcrete and IMSTC cores, Quartz, IMSTC quartzite, silcrete and glass flaked pieces	14 78	Squares 1-11 Spits 1-5	Previously recorded site (LA9, 51-6-0364, artefact scatter). Located on a flat bench overlooking Narambulla Creek. Near historical ruins (a location often selected for the same reasons as Aboriginal occupation). Western side of Narambulla Creek.

Location	Features	No. Artefacts Recorded	Context	Landform
	Quartz, IMSTC quartzite, silcrete flakes	111		
Location 6	None	0	None	Level landform associated with tributaries to Lockyersleigh Creek. On the eastern boundary of the study area close to the Lynwood Quarry.

Figure 30 – Distribution of Test Pits in Locations 1-6

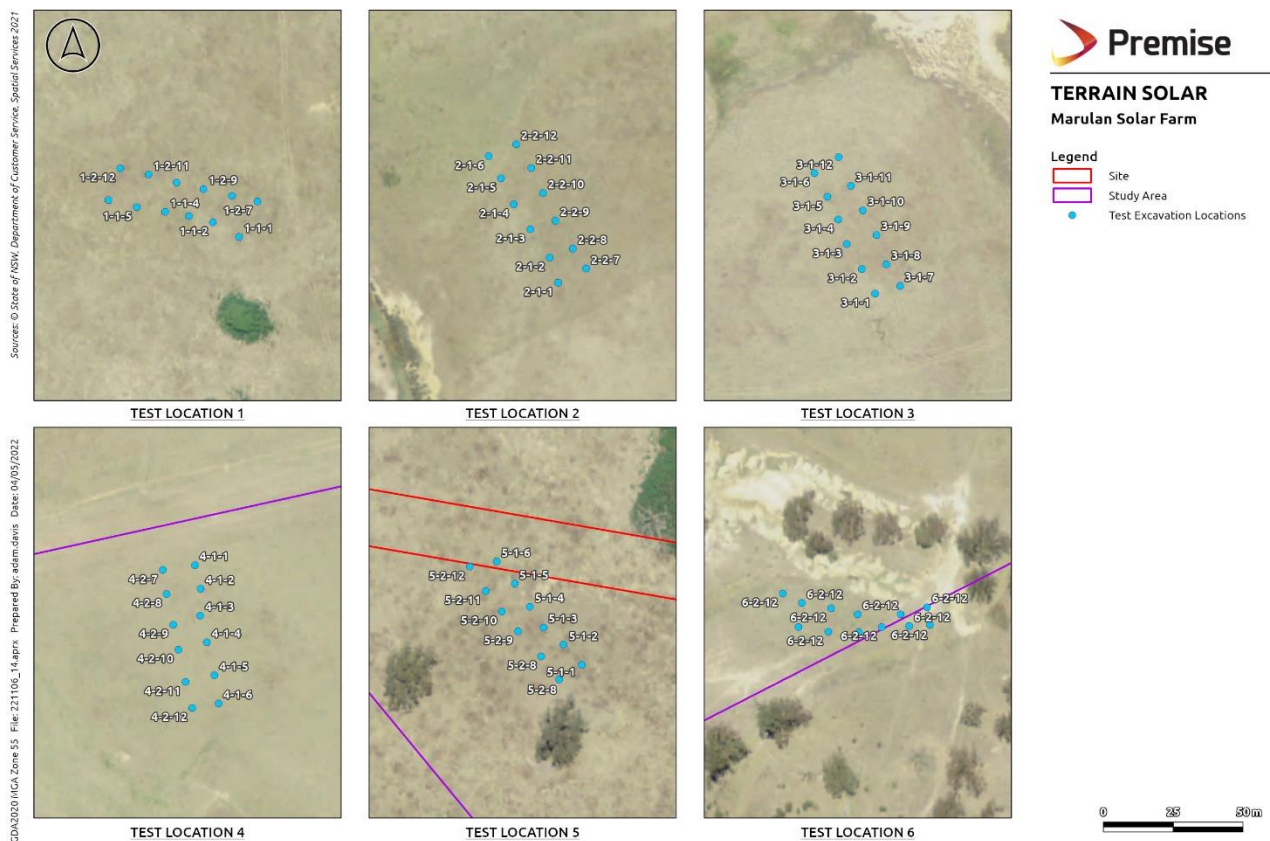


Figure 31 – Location 1 – Transect 1



Figure 32 – Location 2 – Transect 2



Figure 33 – Location 3 – Transect 2



Figure 34 – Location 4 – Transect 1



Figure 35 – Location 5 – Transect area



Figure 36 – Location 6 – Transect 1



8.1.7 NEW SITE RECORDS DURING TEST EXCAVATION PROGRAM

During the test excavation program, artefacts were recorded at 5 out of 6 location areas which are to be recorded as new sites on the AHIMS database.

Two sites Location 4 and 5 were expansions of previously recorded sites AHIMS ID #51-6-0736 and AHIMS ID #51-6-0364.

Three additional sites will be recorded as new sites at Locations 1-3.

- Location 1 will be named Osborns Creek OS-1.
- Location 2 will be named Narambulla Creek OS-1.
- Location 3 will be renamed Lockyersleigh Creek OS-1.

Osborns Creek OS-1

Osborns Creek OS-1 is an area located on an elevated bench overlooking the confluence of Narambulla and Osborns Creeks, located on the western side of Narambulla Creek. During the test excavation program four (4) artefacts were recorded from square 8, spit 2 consisting of two (2) silcrete flakes and two (2) quartz flaked pieces.

Narambulla Creek OS-1

Narambulla Creek OS-1 is an area located on a level elevated landform also associated with Narambulla Creek. No previous sites were recorded at this location. During the test excavation program two (2) artefacts were recorded one IMSTC flake from square 7, spit 2 and one quartzite flake recorded from square 11, spit 2.

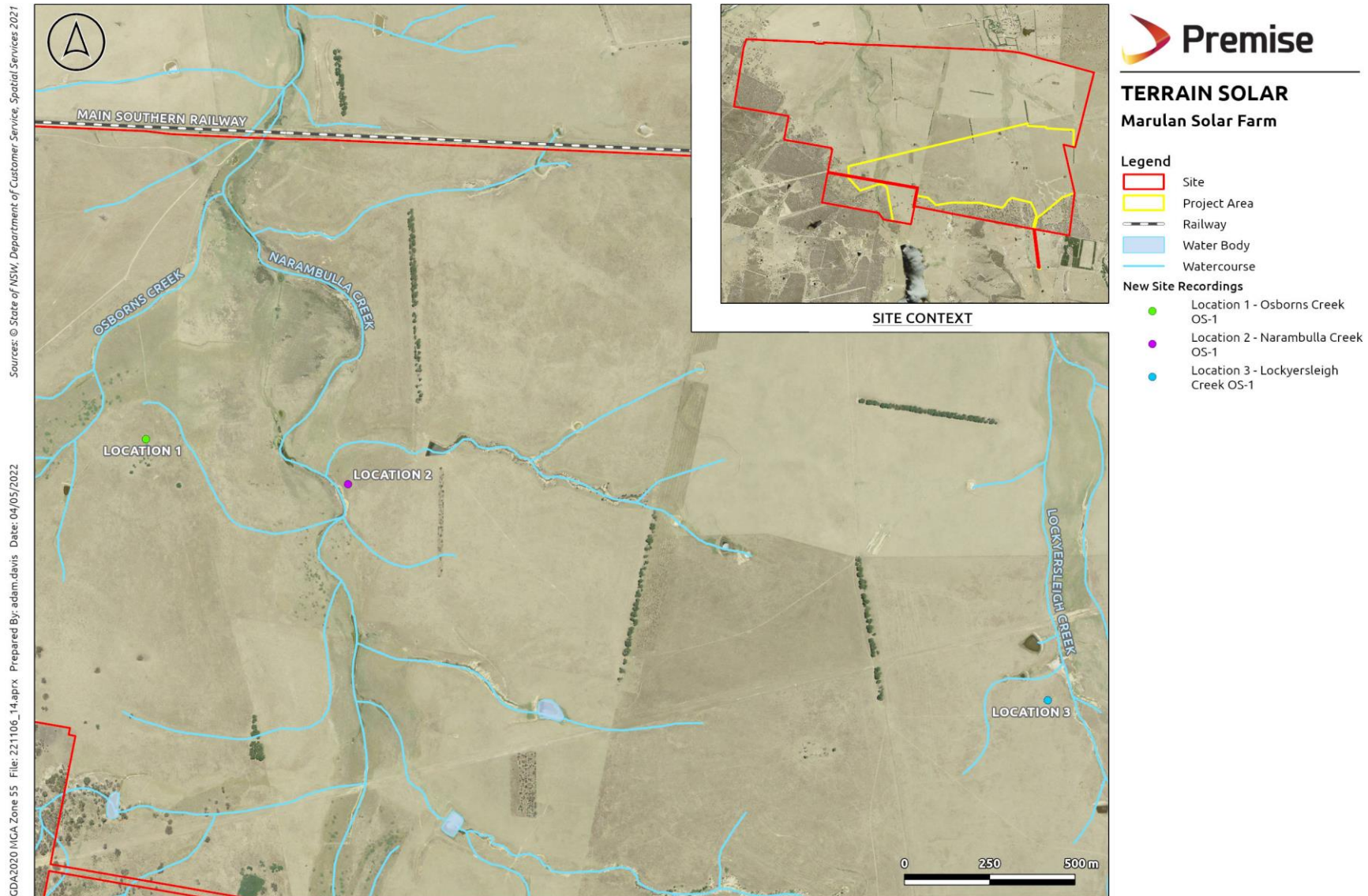
Lockyersleigh Creek OS-1

Lockyersleigh Creek OS-1 is an area located on Level elevated landform associated with the eastern side of Narambulla Creek. During the test excavation program one (1) artefact was recorded from square 5, spit 1 consisting of an IMSTC flake.

The location of the newly recorded sites is shown in **Figure 37**.

Results of test excavation artefact analysis are provided in **Appendix H**.

Figure 37 – New Site Recordings



9. DISCUSSION

The observed distribution of artefacts recorded during the test excavation program indicates that higher density artefact scatters occurred towards the western extent of the study area, towards the moderate slopes and woodland consistent with previously recorded sites in the area. Overall, the artefact densities were recorded in low numbers except for Location 5.

The highest density of artefacts was recorded in Location 5 which is associated with one previously recorded site (AHIMS ID #51-6-0364, LA9 artefact scatter). This location is set within a flat bench overlooking Narambulla Creek adjacent to historical ruins (a location often selected for the same reasons as Aboriginal occupation) on the western side of Narambulla Creek.

The artefacts recorded in this location (203) consisted of cores, flakes and flaked pieces, indicating a higher distribution of different raw material manufacture. One glass flake was also recorded from this location, which supports the association between pre and post contact site, located closely to the historic settlement. The observed distribution in this location is consistent with higher artefact densities located to the west of the study area tend to be closer to the hill topography rather than out on the exposed undulating hills.

However, some occupation on elevated spurs associated with Narambulla Creek (Location 4) also occurred, with artefact numbers increasing here, however are still low in number (11 in total) and not widespread.

Small artefact densities recorded from Locations 1-3 around the confluence of Osborns and Narambulla Creeks and to the east at Lockyersleigh Creek did not reveal high numbers of artefacts (7 in total), indicating the landform conditions of these waterways were not suitable for long occupation periods.

The results also indicate that Location 6 was not preferable for long term occupation with nil sites recorded at this location.

9.1 Ground Disturbance

Based on historical records, site survey and test excavations, it has been identified that the majority of the study area has been subject to moderate levels of ground disturbance associated with former and current pastoral activities. Ground disturbance has also occurred with the installation of infrastructure associated with transmission lines running north-south across the western portion of the study area and high pressure gas pipelines that bisects the study area from east to west. Through the test excavation program, evidence of historical artefacts were found in Location 5 consisting of metal, brick and ceramic, mostly in the top layers of excavation spits indicating some level of disturbance.

Evidence of bioturbation also indicates that the lateral movement of archaeological artefacts has been affected. The test excavation analysis indicates that is a progressive decrease in numbers of artefacts with depth, which indicates that the natural process of bioturbation has had an impact on this site.

The study area has also been relatively cleared of native vegetation. Creek lines have also been subject to historical modification and evidence of extensive erosion was observed. Ground disturbance and impacts to Aboriginal archaeology in the study area are discussed in **Section 9.1** and **Section 12**.

9.2 Analysis of Archaeological Potential

Archaeological potential of a site is determined by several factors including landform, location and the level of disturbance that has impacted the area. In areas where there is a high level of disturbance, the archaeological potential is lowered.

The archaeological potential of the study area is based on the landform elements and predictive modelling discussed in **Section 5**, and also assessed through site investigations.

The study area consists of low gradient undulating landforms with little landform differentiation, with low density artefact scatters and isolated finds predominately recorded in areas associated with the waterways within the study area. The landforms within the study area were not favoured for long-term occupation. While the creek systems were visited, these visits were either short-term or sporadic with more favoured occupation areas being in steeper country to the east of the study area characterised by woodland.

In areas where there is a high level of disturbance such as the study area which has been subject to extensive agricultural activities, it is unlikely that surface finds in these areas are in their original context. In some instances, it is also unlikely that sub-surface archaeological deposits are intact, however test excavations indicate the presence of Aboriginal artefacts.

Previous investigations undertaken in the vicinity of the MSF site indicate that the majority of excavated Aboriginal sites in the Goulburn Mulwaree region date to within the last 3,000 to 5,000 years, when the local climate and environment approached modern conditions (BRS 2018:14).

AMBS have prepared a comprehensive Aboriginal Heritage Study on the Goulburn Mulwaree LGA outlining the historic connections of the Aboriginal community to the region which encompasses Marulan (AMBS 2012) (refer **Section 5.4**). The study indicates that the distribution of registered Aboriginal sites within the Goulburn Mulwaree LGA, generally occur in the vicinity of watercourses, in elevated areas, and in areas with suitable geology or mature vegetation. Concentration of sites have been identified in proximity to Mulwaree Ponds and the Wollondilly River (AMBS 2012: 26).

Evidence of Aboriginal occupation within camps have also been found around the Tarlo, Tallong, Bungonia and Marulan areas, associated with extensive quarry sites, utilising local materials for implementation use (BRS 2018:14).

9.3 Research Questions

Research questions defined in early preparation of the ACHAR within the Survey Methodology for the MSF are addressed below:

What resources were available to the Aboriginal people within the study area (food, stone, and water)? And what resources were transported into the study area?

The survey and test excavation program indicate that raw stone material in the form of IMSTC, Silcrete, Quartz and Quartzite were readily available and mostly transported into the study area. The proximity of water courses in the study area would have also provided a valuable resource to the local Aboriginal population. A previously recorded site located just outside of the study area indicates that quarrying of stone material occurred.

What tasks were Aboriginal people undertaking at the sites?

The test excavation program indicates that larger more complex groups of Aboriginal people were camping near Narambulla Creek and occupying the area within the last 7,000 years.

The low incidence of cortex on cores indicates that primary reduction of stone was taking place elsewhere, which is supported by the fact that raw materials were likely being transported to the site. The ratio of flakes to cores also suggests that the site was being occupied for shorter periods of time by more mobile groups of people. The presence of abraded platforms within the assemblage is indicative of people taking more care in the production of small tools which is likely a result of raw materials being transported to site and a larger, less mobile community occupying the site.

The artefact analysis also indicates the presence of heat treated materials, which shows sophisticated stone tool production methods.

However, no residue or use wear analysis has been undertaken to date which would assist in determining exactly what activities were taking place on site.

Are there hearths in the area? And if so, do they contain remains (animal/plant) that may indicate what people were cooking/eating? Can dates be obtained from hearths for the Aboriginal use of the area?

No hearths are recorded in the study area, there was no evidence of hearths located during field investigations.

Are there burials in the area?

No burials are located in the area. A search of the AHIMS database did not reveal any burial sites within the study area or within a distance of 200m from Lot 55 DP 1141136. No burial sites were encountered during the archaeological survey and test excavation program. If, however, human remains are uncovered during the construction process, an unexpected finds procedure would be followed as outlined in **Section 13.7**

Do the survey results correlate with the ASDST models shown in Figure 6 and the predictive model ? (Section 5.10)

Predictive modelling suggests that there would be a moderate probability of finding archaeological material within the study area. Through site inspections undertaken on the site including field survey and test excavations the results are consistent with the ADST modelling.

10. ABORIGINAL CULTURAL HERITAGE ASSESSMENT

10.1 Methodology

The Aboriginal cultural heritage assessment in this report includes information collected through site survey, test excavations, desktop assessment, artefact analysis and consultation conducted throughout the ACHAR. This information was collected by Latisha Ryall (Archaeologist Premise), Ben Churcher (Principal Archaeologist OzArk) and Tory Stening (Unearthed Archaeology & Heritage).

10.2 Cultural Landscape

The relationship between Aboriginal Australians and the land is conceived in spiritual terms rather than primarily in material terms (Andrews et al 2006). Aboriginal cultural knowledge has been defined as:

Accumulated knowledge which encompasses spiritual relationships, relationships with the natural environment and the sustainable use of natural resources, and relationships between people, which are reflected in language, narratives, social organisation, values, beliefs and cultural laws and custom (Andrews et al 2006).

Aboriginal cultural knowledge was traditionally passed on through oral traditions from generation to generation. Within all Aboriginal communities there was a time of dislocation and upheaval associated with the arrival of colonial settlers. This widespread disruption resulted in much of the detailed knowledge and understanding of many of the elements of the cultural landscape being lost from the Aboriginal community, nonetheless many Aboriginal people maintain a strong connection to the land of their ancestors and collectively possess a wealth of knowledge passed down through the generations.

11. IDENTIFYING CULTURAL VALUES AND SIGNIFICANCE

11.1 Identified Social Values

The *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011: 8–9) notes that cultural significance is comprised of an assessment of social values, scientific values, aesthetic values, and historic values. Essentially, assessing the cultural significance of a place means defining the reasons why a place is culturally important. These values are described as:

Social or cultural value

Social or cultural value refers to the spiritual, traditional, historical or contemporary associations and attachments the place or area has for Aboriginal people. Social or cultural value is how people express their connection with a place and the meaning that place has for them.

Places of social or cultural value have associations with contemporary community identity. These places can have associations with tragic or warmly remembered experiences, periods or events.

Communities can experience a sense of loss should a place of social or cultural value be damaged or destroyed.

There is not always consensus about a place's social or cultural value. Because people experience places and events differently, expressions of social or cultural value do vary and in some instances will be in direct conflict (Johnston 1992). When identifying values, it is not necessary to agree with or acknowledge the validity of each other's values, but it is necessary to document the range of values identified.

Social or cultural value can only be identified through consultation with Aboriginal people. This could involve a range of methodologies, such as cultural mapping, oral histories, archival documentation and specific information provided by Aboriginal people specifically for the investigation.

Historic Value

Historic value refers to the associations of a place with a historically important person, event, phase or activity in an Aboriginal community. Historic places do not always have physical evidence of their historical importance (such as structures, planted vegetation or landscape modifications). They may have 'shared' historic values with other (non-Aboriginal) communities. Places of post-contact Aboriginal history have generally been poorly recognised in investigations of Aboriginal heritage. Consequently, the Aboriginal involvement and contribution to important regional historical themes is often missing from accepted historical narratives. This means it is often necessary to collect oral histories along with archival or documentary research to gain a sufficient understanding of historic values.

Scientific (archaeological) value

This refers to the importance of a landscape, area, place or object because of its rarity, representativeness and the extent to which it may contribute to further understanding and information (Australian ICOMOS 1988).

Information about scientific values will be gathered through any archaeological investigation undertaken. Archaeological investigations must be carried out according to OEHS Code of practice for archaeological investigation of Aboriginal objects in NSW, available at www.environment.nsw.gov.au/licences/archinvestigations.htm.

Aesthetic value

This refers to the sensory, scenic, architectural and creative aspects of the place. It is often closely linked with the social values. It may consider form, scale, colour, texture and material of the fabric or landscape, and the smell and sounds associated with the place and its use (Australian ICOMOS 1988).

11.2 Social or Cultural Values associated with the Marulan Solar Farm Project

An invitation to provide social and/or cultural values for the MSF was provided to RAPs through the community consultation process via the Advertisements, Registration of Interest notification letters and via the Survey and Test Excavation Methodology letters. Opportunities to provide verbal social and/or cultural values for the MSF were also encouraged during the site survey and test excavation program. Specific cultural information is provided in **Section 3.8**.

It is important to note, however, that the cultural landscape is central to Aboriginal identity, with respect to both traditional and contemporary society. The relationship between Aboriginal community and the landscape is expressed through stories, songlines, art, ceremonies, and other cultural forms, both physical and non-physical. These factors determine the significance of the area and cultural sites of the Gundungurra and Ngunawal within the Goulburn Mulwaree LGA.

Through previous research undertaken for the study area it is noted that a report prepared by AMBS identified that the Narambulla creek was associated with a massacre site (AMBS 2012:30) however no further information could be obtained on when this event occurred. During the site survey and test excavation program, no evidence of this type of event was found.⁶ A review of the available data provided on the Australian Aboriginal Massacres website (University of Newcastle) does not provide a record of this event occurring.

One comment was received indicating the site is within the songlines from north to south ceremonial sites and there are early colonial records of "Kangaroo song" being used within this region for travel purposes. Information is provided in **Section 3.7, Section 3.8 and Section 5**⁷

No other specific information was provided on the significance of the site at the time this report was prepared. However comment was made during test excavations that the area holds cultural significance and aesthetic values to the community with the connection to country, providing a sense of healing .

Aboriginal cultural values are also discussed in **Section 3.7**.

⁶ Information provided by Mulwaree Aboriginal Community Inc, through consultation of the DRAFT ACHAR strongly disagrees with this statement and advised that there is no evidence / knowledge of any such massacre in local Traditional Custodian knowledge and no reference to any massacre on the University of Newcastle Australian Aboriginal Massacres website <https://c21ch.newcastle.edu.au/colonialmassacres/map.php>

⁷ Pers comm. Mulwaree Aboriginal Community Inc email dated 28/04/2022 – refer Appendix B

11.3 Identified Historic Values

Historic values specific to the MSF investigation area have yet to be identified. However, there has been no previous investigations which indicate that the study area has an association with a known individual or historical event

11.4 Identified Scientific Values

The scientific values of the MSF investigation area discussed in **Section 5**. Assessment of scientific value is often based on the research potential of the area.

Identified scientific values of the site may contribute to our broader understanding of the MSF investigation area regarding the importance of landscape features and/or rarity of objects or places.

While the archaeological field survey did not identify particular locations where it was thought likely that subsurface archaeological deposits of conservation value are present, several areas were determined to form the basis of the test excavation program.

Survey areas were assessed for their archaeological sensitivity based on previous archaeological research, topography, and prior land use. As a result, six areas of particular sensitivity were identified for intensive survey, and these included elevated land associated with creek lines, and areas with low gradient slopes and basal slopes (refer **Section 5**).

In terms of previous Aboriginal settlement in the study area, it is considered that the creek valleys of Narambulla, Osborns and Lockyersleigh Creeks would have provided valuable resources but not long term occupation areas due to their nature as low gradient, braided creek channels consisting of alluvial soils that tend to be swampy in wetter seasons. The archaeological material recovered during the test excavation supports this.

The archaeological potential of an area is rated high, moderate or low, based on all of the above considerations.

A definition of each ranking is provided below:

High - Intact archaeological material is likely to be found in this area.

Moderate – Intact archaeological material may be found in this area

Low - It is unlikely that intact archaeological material will be found in this area.

The results from the site survey and test excavation program indicate that the study area has been assessed as having an overall low to moderate archaeological potential, with the highest density of artefacts recorded in the western portion of the site at Location 5.

The artefact analysis indicates a moderate to high level of scientific value for the study area.

11.5 Identified Aesthetic Values

The aesthetic values of the MSF investigation area as it relates to cultural significance is not yet known and has not been determined through community consultation efforts. At the time this report was prepared one comment was received on intangible heritage indicating the site is within the songlines from north to south ceremonial sites and there are early colonial records of "Kangaroo song" being used within this region for travel purposes.⁸

⁸ pers comm. Mulwaree Aboriginal Community Inc email dated 28/04/2022 – refer Appendix B
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no specific information on the aesthetic values of the study area had been provided by the RAPs, however feedback on the review of this report is encouraged.

A comment was made during the test excavation program that the area holds cultural significance and aesthetic values for community with the connection to country and a sense of healing .

Identified aesthetic values observed during field work considered landscape use and form, noting that the aesthetic values may be closely linked with social values of the study area. Identified aesthetic values of the study area are most likely associated with the Wollondilly River and its tributaries such as the Narambulla, Osborns and Lockyersleigh Creeks.

Aesthetic values likely relate to the woodland in the south and east of the study area and the plains towards the Wollondilly River, where recorded sites increase in these areas.

In regard to the artefact assemblage, there is a high level of aesthetic values associated with the worked raw material. Examples include sophisticated skilled worked points and the evidence of heat treated reduction used.

Overall the landscape in general has aesthetic values in regard to intangible factors such as sights, smells and feelings.

11.6 Social Values Investigation

No specific comment or feedback was provided through the consultation process on social values relevant to the study area. Opportunity to provide feedback was undertaken both on site during field work and through review of the ACHAR documentation.

It is noted that social values are important for identifying tangible and intangible heritage associated with country.

11.7 Significance Assessment

11.7.1 ABORIGINAL MATERIAL CULTURE

Aboriginal material culture located within the study area has been discussed in **Section 5**, **Section 6** and **Section 8**. The archaeological material located within the study area represents low density artefact scatters and isolated finds.

The assemblage is comprised of 106 flakes without retouch, five retouched flakes, 78 flaked pieces and 14 cores. The most commonly occurring artefact type is the flake without retouch comprising 52.22% of the total assemblage. Stone artefact sites are the most recorded site types, with IMSTC and silcrete used as the predominant raw material.

The low incidence of cortex on cores indicates that primary reduction of stone was taking place elsewhere.

The most common initiation type of artefact Conchoidal flakes are the most common initiation type in Australian assemblages, which is supported by the present assemblage.

The analysis of the assemblage collected during these test excavations at Marulan Solar Farm indicate that the area was being occupied by Aboriginal people within the last 7,000 years. Test excavation areas 4 and 5 revealed the highest artefact numbers per trench and demonstrated that Aboriginal people were intensively using these areas of the site. Areas 4 and 5 are located closer to Narambulla Creek than Areas 1, 2, 3 and 6. Aboriginal artefacts were predominantly collected from the top soil and the underlying sandy loam within the upper 15cm of the soil profile.

The presence of several microliths within the assemblage places it within the Australian small tool tradition and the Bondaian phase of the Eastern Regional sequence. The presence of a single possible worked glass piece indicates that Aboriginal people may have been occupying the site in the post contact period. Flakes (without retouch) were the most commonly occurring artefact type, with retouched flakes, flaked pieces and cores also being represented.

11.7.2 SIGNIFICANCE ASSESSMENT

An assessment of the cultural heritage significance of an item or place is required, so as to inform its management. The ACHAR Guide (2011) provides guidelines for heritage assessment with reference to the Burra Charter (Australia ICOMOS 2013) and the Heritage Office guidelines (2001). The assessment is made in relation to four values or criteria as outlined above.

As defined by the Burra Charter:

Cultural significance means aesthetic, historic, scientific, social or spiritual value for past, present or future generations.

Cultural significance is embodied in the place itself, its fabric, setting, use, associations, meanings, records, related places and related objects.

It is also important to note that

Changes which reduce cultural significance should be reversible and be reversed when circumstances permit.

A statement of heritage significance is provided below:

The objects recorded, and potentially occurring, in the study area have moderate scientific heritage significance, forming a small part of the wider archaeology of the Marulan area. The artefacts are broadly typical of the assemblage recorded in the local area and occur in the top soil profile. The information contained in these objects will be readily available in the broader local landscape.

The study area is considered to demonstrate moderate significance value.

Table 12 shows significance of the site relevant to heritage assessment criteria.

Table 12 – Heritage Assessment – Significance

Criteria	Significance
Research Potential	<p>All archaeological sites have the potential to contribute to our understanding of Aboriginal occupation. However the study area shows an overall low density of surface and subsurface artefact scatters, which would not provide a significant contribution to research of the Marulan area individually but would add to the collective assemblage of other recorded sites nearby.</p> <p>The ability of the archaeological resources in the study area to significantly contribute to local or regional studies is low, unlike the nearby Lynwood quarry site which yielded a high number of artefacts</p> <p>.</p>

Criteria	Significance
	<p>Integrity:</p> <p>The study area has undergone modification through land clearing for agricultural use. The archaeological deposit has likely been impacted by bioturbation, which has resulted in the downward movement of artefacts.</p> <p>The archaeology of the subject site has been assigned as having low integrity.</p> <p>Complexity:</p> <p>The regional archaeological context indicates that larger and more complex sites would have been located in landforms affording shelter and a greater abundance of resources near the hills to the south and east of the study area. The results of the current investigation indicates that groups of Aboriginal people were camping near Narambulla Creek and are likely to have used the area on a regular, but short term and sporadic basis, as evidenced by the fact that the study area displays a low artefact density.</p> <p>The presence of abraded platforms within the assemblage is indicative of people taking more care in the production of small tools from raw materials that were transported to site.</p>
Archaeological Potential	There is a moderate to high potential for further stone artefacts to be recorded in the study area, however, these would be in low density numbers, often at a density characterised as a background scatter.
Connectedness	<p>The cultural material of the study area is connected to the cultural material of the broader Marulan/Goulburn area. The area has been identified as having songline connections songlines from north to south ceremonial sites and there are early colonial records of "Kangaroo song" as recorded by Mitchell being used within this region for travel purposes.</p> <p>The artefact analysis indicates that raw materials were mostly transported to the site for use in the production of small tools, however the low density of artefact scatter does suggest the usage was sporadic and occasional.</p>
Representativeness	<p>The archaeological material in the study area is broadly representative of the archaeological material of the Marulan area. It comprises a range of raw stone material including silcrete, IMSTC, quartz, quartzite, and glass.</p> <p>The evidence of several microliths in the assemblage also indicates that the stone tool productions is classified within the Australian small tool tradition and the Bondaian phase of the Eastern Regional sequence. The presence of a single possible worked glass piece indicates that Aboriginal people were occupying the site in the post contact period.</p>

Criteria	Significance
Rarity	The study area is not identified as rare. Archaeological material recovered during survey and test excavations indicate similar artefact types as those excavated at nearby sites (Lynwood quarry) and are representative of general campsite activities.
Education Potential	The archaeological remains of the study area have moderate educational potential as the material reflects Aboriginal occupation of the broader Marulan area and can contribute to the wider Aboriginal cultural collective in association with nearby sites.
Archaeological landscapes	The study area reflects low densities of archaeological material in respect to the broader area, with more significant cultural landscapes identified outside of the study area. This archaeological landscape will not be significantly altered if the study area is developed as planned.
Aesthetic Value	The Aboriginal sites recorded during this study have low to moderate aesthetic value within the meaning attributed in a heritage assessment.
Historic Value	The study area in question is not directly associated with an important individual or identifiable historic event. Objects in the study area will not have 'historic value' within the meaning attributed by a heritage assessment.
Social or Cultural Value	Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value. More complex or rare artefacts tend to be highly regarded.

11.7.3 SIGNIFICANCE ASSESSMENTS OF SITES

Narambulla Creek IF-1

Criteria	Significance
Social or Cultural Value	Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value.
Scientific Value	As an isolated artefact probably in a secondary context, Narambulla Creek IF-1 has low research potential and low scientific significance.
Aesthetic Value	Narambulla Creek IF-1 has low aesthetic values as it is an unremarkable object that is not manifest in the landscape.
Historic Value	Narambulla Creek IF-1 is not directly associated with an important individual or identifiable historic event and has no historic values.

Osborns Creek OS-1

Criteria	Significance
Social or Cultural Value	Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value.
Scientific Value	As Osborns Creek OS-1 is a subsurface manifestation only and recorded a very low artefact density representative of a background scatter (4 artefacts), the site has low scientific values and further investigation is unwarranted.
Aesthetic Value	Osborns Creek OS-1 has low aesthetic value as it is a subsurface manifestation only.
Historic Value	Osborns Creek OS-1 is not directly associated with an important individual or identifiable historic event and has no historic values.

Narambulla Creek OS-1

Criteria	Significance
Social or Cultural Value	Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value.
Scientific Value	As Narambulla Creek OS-1 is a subsurface manifestation only and recorded a very low artefact density representative of a background scatter (2 artefacts), the site has low scientific values and further investigation is unwarranted.
Aesthetic Value	Narambulla Creek OS-1 has low aesthetic value as it is a subsurface manifestation only.
Historic Value	Narambulla Creek OS-1 is not directly associated with an important individual or identifiable historic event and has no historic values.

Lockyersleigh Creek OS-1

Criteria	Significance
Social or Cultural Value	Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value.
Scientific Value	As Lockyersleigh Creek OS-1 is a subsurface manifestation only and recorded a very low artefact density representative of a background scatter (1 artefact), the site has low scientific values and further investigation is unwarranted.
Aesthetic Value	Lockyersleigh Creek OS-1 has low aesthetic value as it is a subsurface manifestation only.
Historic Value	Lockyersleigh Creek OS-1 is not directly associated with an important individual or identifiable historic event and has no historic values.

Criteria	Significance
Social or Cultural Value	Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value.
Scientific Value	Eleven artefacts were recovered from excavations at Location 4 that represents a low artefact density. Along with the surface expression, site #51-6-0376 has a low scientific value as it has a very limited ability to contribute to our knowledge of the region.
Aesthetic Value	Located on a flat bench within a spur overlooking Narambulla Creek, the site has low aesthetic value as the site, apart from its landscape context, is difficult for the layperson to interpret.
Historic Value	#51-6-0376 is not directly associated with an important individual or identifiable historic event and has no historic values.

AHIMS ID #51-6-0364

Criteria	Significance
Social or Cultural Value	<p>Local Aboriginal people value evidence of their ancestors' occupation of the land extremely highly. Any evidence of occupation activity is afforded high cultural value.</p> <p>This location recorded the highest density of artefact numbers (203 in total) and consisted of cores, flakes, flaked pieces, and a knapped glass artefact.</p> <p>A previously recorded sites have been recorded in this area (LA9, 51-6-0364, artefact scatter) and it is located on a flat bench overlooking Narambulla Creek in association with nearby historical ruins (a location often selected for the same reasons as Aboriginal occupation). With the recording of the knapped glass artefact, the site has a strong association with the post-contact period of Aboriginal occupation which is rarely preserved.</p>
Scientific Value	<p>The test excavation recorded a moderate density of artefacts at the site that displayed some complexity in terms of tool types and raw material use. With the recording of the knapped glass artefact, the site has the ability to provide further information on Aboriginal use of the area, particularly of the early contact period.</p> <p>AHIMS ID #51-6-0364 is assessed as having moderate scientific value.</p>
Aesthetic Value	AHIMS ID #51-6-0364 has a low to moderate aesthetic value with its association to the Ruins of Kyle as it is possible the two sites are associated.
Historic Value	AHIMS ID #51-6-0364 is not directly associated with an important individual or identifiable historic event and has no historic values.

12. IMPACT ASSESSMENT

12.1 Aboriginal Heritage Impact

Terrain Solar is proposing to develop an approximately 152 megawatt (MW) solar farm, plus an optional battery energy storage system with a potential capacity of up to 100 MW on the subject site. The proposed works will have direct impacts to Aboriginal heritage.

12.1.1 IMPACT TO ABORIGINAL OBJECTS

The definition of harm to Aboriginal objects under the NPW Act is limited to impacts which

'...destroys, defaces, damages an object or place or in relation to an object – moves the object from land on which it has been situated.'

The current report has identified that the site extent of all recorded sites would be subject to impact from the proposed works. All nine sites within the study area are typified as artefacts and are not located within the current exclusion zones:

- AHIMS ID #51-9-0374 is located south of Lockyersleigh Creek.
- AHIMS ID #51-9-0375 is in the south eastern portion of Lockyersleigh Creek
- AHIMS ID # 51-6-0736 is in the northern boundary of the proposed solar farm impact area.
- AHIMS ID # 51-6-0373 is in the south western portion of the proposed solar farm impact area.
- AHIMS ID # 51-6-0364 is in the western extent of the proposed solar farm impact area.
- AHIMS ID # 51-6-0908 is in the northern portion of the proposed solar farm impact area, close to Narambulla Creek.
- Osborns Creek OS-1 located at the confluence of Osborns and Narambulla Creeks
- Narambulla Creek OS-1 located on the eastern bank of Narambulla Creek
- Lockyersleigh Creek OS-1 located on the western bank of Lockyersleigh Creek

The study area is liable to be harmed through earthworks, vibration, or increased runoff.

The proposed works as identified at the time this report was prepared, would result in impacts to all identified Aboriginal objects, however these have been assessed as having low to moderate scientific significance and high cultural significance.

Impact assessment for each location and previously recorded AHIMS site is provide below in **Table 13**.

Table 13 – Impact Assessment

Site Number	Type of Harm	Degree of Harm	Consequence of Harm
AHIMS ID #51-6-0364	Direct	Total	Total loss of value
AHIMS ID #51-6-0373	Direct	Total	Total loss of value
AHIMS ID #51-6-0374	Direct	Total	Total loss of value
AHIMS ID #51-6-0375	Direct	Total	Total loss of value
AHIMS ID #51-6-0376 Location 4	Direct	Total	Total loss of value
AHIMS ID #51-6-0908	Direct	Total	Total loss of value
Osborns Creek OS-1	Direct	Total	Total loss of value
Narambulla Creek OS-1	Direct	Total	Total loss of value
Lockyersleigh Creek OS-1	Direct	Total	Total loss of value

13. MANAGEMENT AND MITIGATION MEASURES

The overall guiding principle for cultural heritage management is that where possible Aboriginal sites should be conserved. There will be some impacts to known Aboriginal sites and areas of archaeological potential within the study area and subsequently management and mitigation measures related to this aspect of cultural heritage is outlined below.

The study area is not located within a culturally significant precinct with regards to both precontact and post contact use of the region. However, there is evidence of Aboriginal occupation across the site and in the broader region. The study area has been defined as having low archaeological significance determined by the landform assessment in **Section 5.9**.

13.1 Modifications to Detailed Design

The current assessment has identified that Aboriginal site features associated with the south-western portion of the study area significantly increase, with a higher density of artefacts recorded.

An LEP heritage curtilage has been established around the European LEP item Ruins of Kyle located near AHIMS ID # 51-6-0364, located on the south-western extent of the proposed impact area. It is recommended that the LEP exclusion zone be extended to the western portion of the study area to include both heritage items.

An association with both Aboriginal and European heritage in this area was also identified. There appears to be a close association between Aboriginal recorded sites and a European LEP listed heritage item where both Aboriginal and historical artefacts were recorded. It is assumed that in some instances European sites were in areas associated with earlier occupation of Aboriginal people. This is evident in the archaeological material recovered through the test excavation program. Modification to the proposed works schedule to exclude this area would be beneficial, however, if this area cannot be avoided then further archaeological work will be required as discussed in **Section 13.5**.

Measures to minimise impacts to the significance values of European heritage are further discussed in the HIS (Premise 2022) for the proposed works.

13.2 Changes to the Proposed Works

This ACHAR has been prepared based on the most recent information made available to Premise at the time this report was submitted. Any significant changes made to the proposed disturbance area outside of the surveyed area and the focus of this report, should be assessed by an archaeologist in consultation with the registered Aboriginal stakeholder groups. Any changes that may impact areas not assessed during the current study may warrant further investigation and result in changes to the recommended management and mitigation measures.

13.3 No further investigation required

Osborns Creek OS-1, Narambulla Creek OS-1, and Lockyersleigh Creek OS-1 were recorded during the test excavation program. Each site recorded a very low subsurface artefact density (4, 2 and 1 artefacts respectively). Artefact densities at this level are typical of the background scatter of artefacts in most landforms in and near the study area.

As such, further subsurface investigations are not warranted at these sites. Due to the test excavation, the sites are listed as 'partially destroyed'. Following project approval, harm to the sites without further investigation can occur. Following work in the area of each site, an Aboriginal Site Impact Recording Form (ASIRF) will be submitted to AHIMS to note that the site is 'destroyed'.

13.4 Surface Collection Methodology

Salvage in the form of surface collection is proposed for sites recorded in the study area prior to works commencing. Surface collection would involve site inspection with an archaeologist and RAP to try and locate all previously recorded artefacts (subject to ground visibility).

The artefacts would be photographed, bagged and recorded appropriately and removed from site to be reburied at a later date, along with excavated material recovered through test excavations.

The surface collection of objects include:

- AHIMS ID #51-6-0364
- AHIMS ID #51-6-0373
- AHIMS ID #51-6-0374
- AHIMS ID #51-6-0375
- AHIMS ID #51-6-0376
- AHIMS ID #51-6-0908

If the proposed recommendation to exclude the western portion impact area, AHIMS # 51-6-0364 would not be included in surface collection and would remain in-situ.

Following salvage at each site, an ASIRF will be submitted to AHIMS to note that the site is 'destroyed'.

13.5 Salvage Excavation

If AHIMS # 51-6-0364 cannot be avoided, further archaeological work will be required at this location to gain as much information about the nature and extent of the site before the area is harmed.

Limited salvage excavations must take place prior to ground disturbance by the project activities. This would include the manual excavation of an additional 4 excavation squares (1 m²) around the three test squares recording the highest numbers of artefacts (Squares 2 [52 artefacts,] 4 [34 artefacts] and 8 [58 artefacts]). There would be triggers for expansion but only to a maximum of 6 square metres in total.

Before any subsurface investigation takes place, an effort should be made to locate and collect any surface artefacts at the site.

If subsurface excavation takes place, following the completion of the archaeological investigation, an ASIRF will be submitted to AHIMS to note that the site is 'destroyed'.

13.6 Management of Aboriginal objects

It is proposed that Aboriginal objects recovered from the salvage surface collection will be reburied within the study area, outside the proposed impact area. Consultation with RAPs regarding this approach has yet to be determined, however feedback is encouraged as part of the stakeholder review of the ACHAR. At the time this report was prepared the reburial site location had not been determined (refer **Section 8.1.6**). Terrain Solar (or proponent) would need to identify a location that will not be impacted by the proposed solar farm operation for consideration by the RAPs.

13.7 Unexpected Finds

An unexpected finds procedure would be implemented as part of the management considerations for Aboriginal Cultural Heritage.

An unexpected finds policy should be included as part of the proposed works Construction Environment Management Plan. If unanticipated Aboriginal objects are uncovered during works, all work in the vicinity should cease immediately. A qualified archaeologist should be contacted to assess the find and Heritage NSW and Pejar LALC must be notified.

If any unexpected find is suspected to be human remains work at the location must cease and the following authorities must be contacted immediately:

- a. NSW Police – Marulan Police Station (Phone: (02) 4841 1516)
- b. NSW Heritage (02) 9873 8500 OR
heritagemailbox@environment.nsw.gov.au

The location is to be made secure to prevent unauthorised access.

Work on the solar farm development project may continue at a suitable distance from the potential human remains – not closer than 100m.

13.8 Temporary and long-term care and management of retrieved Aboriginal objects

The temporary repository of any retrieved artefacts will be stored and protected in a locked cupboard on the premises of the archaeological consultant undertaking salvage surface collection (OzArk or Premise). Any artefacts recovered during the surface collection will be reburied on site, along with the artefacts recovered from the test excavation. The reburial location will be a designated place that will not be subject to further impacts. This location is to be confirmed through community consultation with RAPs as outlined above in **Section 13.6**.

13.9 Aboriginal Heritage Impact Permit

As the project is assessed as being State Significant Development (SSD), an Aboriginal Heritage Impact Permit (AHIP) is not required. Under Part 4.7 clause 4.41 (1)(d) of the EP&A Act

(1) The following authorisations are not required for State significant development that is authorised by a development consent granted after the commencement of this Division (and accordingly the provisions of any Act that prohibit an activity without such an authority do not apply)—

(d) an Aboriginal heritage impact permit under section 90 of the National Parks and Wildlife Act 1974,

However, impacts to Aboriginal sites will need to be recorded in an Aboriginal Site Impact Recording form which will include information on removal and/or the location and depth of reburial. The Aboriginal Site Recording Form must be submitted to Heritage NSW.

13.10 Ecologically Sustainable Development Principles

In accordance with the ACHAR Guide, Ecologically Sustainable Development (ESD) principles have been considered in preparation of this ACHAR. Considerations for ESD include options to avoid impacts to Aboriginal cultural heritage, assessment of unavoidable impacts, identification of mitigation and management measures, and taking account of Aboriginal community views. The principles of ESD are detailed in the *NSW Protection of the Environment Administration Act 1991*. ESD principles relevant to assessment of the proposed works as it relates to Aboriginal cultural heritage are considered below.

13.10.1 THE INTEGRATION PRINCIPLE

Decision-making processes should effectively integrate both long term and short term economic, environmental, social, and equitable considerations (the 'integration principle').

The proposed works would comply with the integration principle in regard to Aboriginal heritage. There are no identified areas of high archaeological significance within the study area that will be impacted. Recommendations to limit the impact to Aboriginal cultural values have been included within this report.

13.10.2 THE PRECAUTIONARY PRINCIPLE

If there are threats of serious or irreversible environmental damage, lack of full scientific confidence should not be used as a reason for postponing measures to prevent environmental degradation (the 'precautionary principle').

Current and previous assessments of the study area have identified most of the study area as moderately disturbed and subsequently demonstrating low archaeological potential.

Areas of previously recorded sites will be impacted on as outlined in **Section 5.8**, however will be subject to surface collection prior to works commencing. It is recommended that the western extent of the proposed solar farm impact area be excluded. Therefore, additional scientific investigation of this area would not be required.

Potential impacts to social and cultural values of the study area have been investigated as part of the current ACHAR investigation and as part of the HIS (Premise 2022) for the proposed works. Impacts to cultural heritage have been assessed as negligible.

13.10.3 THE PRINCIPLE OF INTERGENERATIONAL EQUITY

The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations (the 'principle of intergenerational equity').

Several recorded Aboriginal sites will be impacted as part of the proposed works as outlined in **Section 12.1.1**, above. However these sites have been assessed as having low archaeological significance and will be collected prior to works commencing.

There are several sites located to the immediate south of the study area which remain intact and subsequently the archaeological resource within the region will continue to be available for investigation by future generations. Where impacts to social, cultural or aesthetic values of the Marulan area have been identified, measures to reduce and mitigate the impact of the proposed development have been provided in **Sections 11, 12 and 13**.

14. RECOMMENDATIONS

The study area was occupied by Aboriginal people within the last 7,000 years indicative from background research site survey and test excavation analysis. Test excavation areas 4 and 5 revealed the highest artefact numbers per trench and demonstrated that Aboriginal people were intensively using these areas of the site. Areas 4 and 5 are located closer to Narambulla Creek than Areas 1, 2, 3 and 6. Aboriginal artefacts were predominantly collected from the top soil and the underlying sandy loam within the upper 15cm of the soil profile. One isolated artefact was also recorded during the archaeological survey.

The following recommendations are based on consideration of:

- Statutory requirements under the *National Parks and Wildlife Act 1974*.
- The requirements of the relevant guidelines: The ACHAR Guide (OEH 2011), Code of Practice (DECCW 2010a) and the Consultation Requirements (DECCW 2010b).
- SEARS SSD 13137914.
- The results of the background research, site survey, test excavations and assessment.
- The likely impacts of the proposed development.

14.1 Recommendations

1. The development proposal should proceed, conditional upon the recommendations outlined in this report and surface collection of recorded sites within the study area as identified in **Section 13.3**.
2. Any Aboriginal object that is newly identified during the surface collection will be recorded appropriately.
3. No further Aboriginal archaeological investigations are proposed.
4. As the project is assessed as being State Significant Development (SSD), an Aboriginal Heritage Impact Permit (AHIP) is not required under Part 4.7 clause 4.41 (1)(d) of the EP&A Act. Instead, Aboriginal cultural heritage within the study area will be managed by an Aboriginal Cultural Heritage Management Plan (ACHMP) that will be developed following project approval in consultation with the RAPs and Heritage NSW. The ACHMP will contain the recommendations of this report, as well as an unanticipated finds protocol, procedures to manage unexpected discoveries of human remains, and policies on the fate of any Aboriginal objects either salvaged following project approval or from the test excavation program.
5. Site Cards for AHIMS #51-6-0736 and AHIMS #51-6-0364 will be updated to reflect the findings of the test excavation program of Locations 4 and 5.
6. Three newly recorded sites at Locations 1-3 will be uploaded to the AHIMS database:
 - Location 1 will be named Osborns Creek OS-1.
 - Location 2 will be named Narambulla Creek OS-1.
 - Location 3 will be renamed Lockyersleigh Creek OS-1.
7. The following AHIMS sites will be impacted:
 - AHIMS ID #51-6-0364

- AHIMS ID #51-6-0373
 - AHIMS ID #51-6-0374
 - AHIMS ID #51-6-0375
 - AHIMS ID #51-6-0376
 - AHIMS ID #51-6-0908
8. All Aboriginal sites that are subject to impact will be recorded on an Aboriginal Site Impact Recording form and submitted to Heritage NSW.
 4. The proponent should consider avoiding the south-western portion of the study area containing AHIMS ID #51-6-0364 (test excavation Location 5) and European archaeological material. If this is possible, no further archaeological investigation at AHIMS ID #51-6-0364 will be required.
 5. If Location 5 of the test excavation program is harmed, limited salvage excavations must take place prior to ground disturbance by the project. This would include the manual excavation of an additional 4 excavation squares (1 metre squared) around the three test squares recording the highest numbers of artefacts. There would be triggers for expansion but only to a maximum of 6 square metres in total.
 6. Sites recorded during the test excavation program (Osborns Creek OS-1, Narambulla Creek OS-1, and Lockyersleigh Creek OS-1) are subsurface manifestations only and as subsurface artefacts were recorded at a low artefact density representative of a background scatter that would be common in most landforms of the region, no further archaeological investigation is warranted at these sites.
 7. Sites with a surface expression of artefacts in the study area (AHIMS ID #51-6-0373, AHIMS ID #51-6-0374, AHIMS ID #51-6-0375, AHIMS ID #51-6-0376, AHIMS ID #51-6-0908) will be salvaged through a collection of surface artefacts prior to impacts. Given that these sites are low-density artefact scatters and isolated finds, their scientific significance is low, and the recording and collection of visible artefacts is considered to be sufficient mitigation with regard to the proposed impact. Specific recommendations for AHIMS ID #51-6-0364 are provided in Recommendations 5 and 9.
 8. It is proposed that Aboriginal objects recovered from the salvage surface collection together with test excavation artefacts, will be reburied within the study area, outside the proposed impact area. Terrain Solar (or proponent) would need to identify a location that will not be impacted by the proposed solar farm operation for consideration by the RAPs. Management of Aboriginal objects recovered during the salvage program and test excavation program will be discussed through consultation with RAPs during the development of the ACHMP.
 9. An unexpected finds procedure would be implemented as part of the management considerations for Aboriginal Cultural Heritage. unexpected finds policy should be included as part of the proposed ACHMP. If unanticipated Aboriginal objects are uncovered during works, all work in the vicinity should cease immediately. A qualified archaeologist should be contacted to assess the find and Heritage NSW and Pejar LALC must be notified.
 10. All impacts must remain within the assessed study area or further archaeological investigation may be required.

15. REFERENCES

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Umwelt 2005b. *Environmental Impact Statement – Proposed Lynwood Quarry, Marulan. Appendix 11, Aboriginal Archaeology Assessment.* A report prepared for Readymix Holdings Pty Ltd.

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APPENDIX A

SEARS

Planning Secretary's Environmental Assessment Requirements

Section 4.12(8) of the *Environmental Planning and Assessment Act 1979* Schedule 2 of the *Environmental Planning and Assessment Regulation 2000*

Application Number	SSD-13137914
Project Name	Marulan Solar Farm which includes: <ul style="list-style-type: none"> · the construction and operation of a solar photovoltaic (PV) energy generation facility with an estimated capacity of up to 150 MW; and · associated infrastructure, including grid connection and battery storage of up to 100 MWh.
Location	740 Carrick Road, Carrick, NSW, 5 km west of the town of Marulan within the Goulburn Mulwaree local government area.
Applicant	Terrain Solar Pty Ltd
Date of Issue	19/02/2021
General Requirements	<p>The environmental impact statement (EIS) for the development must comply with the requirements in Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i> (the Regulation).</p> <p>In particular, the EIS must include:</p> <ul style="list-style-type: none"> · a stand-alone executive summary; · a full description of the development, including: <ul style="list-style-type: none"> - details of construction, operation and decommissioning; - a site plan showing all infrastructure and facilities (including any infrastructure that would be required for the development, but the subject of a separate approvals process); - a detailed constraints map identifying the key environmental and other land use constraints that have informed the final design of the development; · a strategic justification of the development focusing on site selection and the suitability of the proposed site with respect to potential land use conflicts with existing and future surrounding land uses (including other proposed or approved solar farms, rural residential development and subdivision potential); · an assessment of the likely impacts of the development on the environment, focusing on the specific issues identified below, including: <ul style="list-style-type: none"> - a description of the existing environment likely to be affected by the development; - an assessment of the likely impacts of all stages of the development, (which is commensurate with the level of impact), including any cumulative impacts of the site and existing, approved or proposed developments in the region and impacts on the site and any road upgrades, taking into consideration any relevant legislation, environmental planning instruments, guidelines, policies, plans and industry codes of practice; - a description of the measures that would be implemented to avoid, mitigate and/or offset the impacts of the development (including draft management plans for specific issues as identified below); and - a description of the measures that would be implemented to monitor and report on the environmental performance of the development; · a consolidated summary of all the proposed environmental management and monitoring measures, identifying all the commitments in the EIS; and · the reasons why the development should be approved having regard to: <ul style="list-style-type: none"> - relevant matters for consideration under the <i>Environmental Planning and</i>

	<p><i>Assessment Act 1979</i>, including the objects of the Act and how the principles of ecologically sustainable development have been incorporated in the design, construction and ongoing operations of the development;</p> <ul style="list-style-type: none"> - the suitability of the site with respect to potential land use conflicts with existing and future surrounding land uses; and - feasible alternatives to the development (and its key components), including the consequences of not carrying out the development. <ul style="list-style-type: none"> · a detailed consideration of the capability of the project to contribute to the security and reliability of the electricity system in the National Electricity Market, having regard to local system conditions and the Department's guidance on the matter; and · a detailed evaluation of the merits of the project as a whole. <p>The EIS must also be accompanied by a report from a suitably qualified person providing:</p> <ul style="list-style-type: none"> · a detailed calculation of the capital investment value (CIV) (as defined in clause 3 of the Regulation) of the proposal, including details of all assumptions and components from which the CIV calculation is derived; and · certification that the information provided is accurate at the date of preparation. <p>The development application must be accompanied by the consent in writing of the owner/s of the land (as required in clause 49(1)(b) of the Regulation).</p>
Key issues	<p>The EIS must address the following specific matters:</p> <ul style="list-style-type: none"> · Biodiversity – including: <ul style="list-style-type: none"> - an assessment of the biodiversity values and the likely biodiversity impacts of the project in accordance with Section 7.9 of the <i>Biodiversity Conservation Act 2016</i> (NSW), the Biodiversity Assessment Method (BAM) and documented in a Biodiversity Development Assessment Report (BDAR), unless BCD and DPIE determine the proposed development is not likely to have any significant impacts on biodiversity values; - the BDAR must document the application of the avoid, minimise and offset framework including assessing all direct, indirect and prescribed impacts in accordance with the BAM; - an assessment of the likely impacts on listed aquatic threatened species, populations or ecological communities, scheduled under the <i>Fisheries Management Act 1994</i>, and a description of the measures to minimise and rehabilitate impacts; and - if an offset is required, details of the measures proposed to address the offset obligation. · Heritage – including an assessment of the likely impacts of the development: <ul style="list-style-type: none"> - on historic heritage (including 'Lockersleigh homestead and Ruins of Kyle) and a Statement of Heritage Impact (SOHI), prepared by a suitably qualified heritage consultant in accordance with the guidelines in the NSW Heritage Manual; and - on Aboriginal (cultural and archaeological), including a full archaeological assessment and consultation with the local Aboriginal community in accordance with the <i>Aboriginal Cultural Heritage Consultation Requirements for Proponents</i>; · Land – including: <ul style="list-style-type: none"> - an assessment of the potential impacts of the development on existing land uses on the site and adjacent land, including: <ul style="list-style-type: none"> - a consideration of agricultural land, flood prone land, Crown lands, mining, quarries, mineral or petroleum rights; - a soil survey to determine the soil characteristics and consider the

potential for erosion to occur (including the identification of catchment protection scheme works); and

- a cumulative impact assessment of nearby developments (including operating mines, extractive industries, mineral or petroleum resources),
- an assessment of the compatibility of the development with existing land uses, during construction, operation and after decommissioning, including:
 - consideration of the zoning provisions applying to the land, including subdivision;
 - completion of a Land Use Conflict Risk Assessment in accordance with the Department of Industry's *Land Use Conflict Risk Assessment Guide*; and
 - assessment of impact on agricultural resources and agricultural production on the site and region.
- **Visual** – including a detailed assessment of the likely visual impacts (including any glare, reflectivity and night lighting) of all components of the project (including arrays, transmission lines, substations and any other ancillary infrastructure) on surrounding residences and key locations, scenic or significant vistas, air traffic and road corridors in the public domain and provide details of measures to mitigate and/or manage potential impacts (including a draft landscaping plan for on-site perimeter planting, with evidence it has been developed in consultation with affected landowners);
- **Noise** – including an assessment of the construction noise impacts of the development in accordance with the *Interim Construction Noise Guideline* (ICNG), operational noise impacts in accordance with the *NSW Noise Policy for Industry* (2017), cumulative noise impacts (considering other developments in the area), and a draft noise management plan if the assessment shows construction noise is likely to exceed applicable criteria;
- **Transport** – including:
 - an assessment of the peak and average traffic generation, including over-dimensional vehicles and construction worker transportation;
 - an assessment of the likely transport impacts to the site access route (including Carrick Road, Rampion Hills Road, Munro Road, Brayton Road, Stoney Creek Road, Jerrara Road and Hume Highway), site access point(s), any Crown land, particularly in relation to the capacity and condition of the roads, road safety and intersection performance;
 - a cumulative impact assessment of traffic from nearby developments; and
 - provide details of measures to mitigate and / or manage potential impacts including a schedule of all required road upgrades (including resulting from heavy vehicle and over mass / over dimensional traffic haulage routes), road maintenance contributions, and any other traffic control measures, developed in consultation with the relevant road authority;
- **Water** – including:
 - an assessment of the likely impacts of the development (including flooding) on surface water and groundwater resources traversing the site and surrounding watercourses, drainage channels, wetlands, riparian land, farm dams, groundwater dependent ecosystems and acid sulfate soils), related infrastructure, adjacent licensed water users and basic landholder rights, and measures proposed to monitor, reduce and mitigate these impacts;
 - details of water requirements and supply arrangements for construction and operation; and
 - an assessment of the potential impacts of the development on the Sydney drinking water catchment, including consideration of Water NSW's current recommended practices and standards, stormwater quality modelling

	<p>(MUSIC), and whether the development can be constructed and operated to have a neutral or beneficial effect on water quality consistent with the provisions of <i>State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011</i>;</p> <ul style="list-style-type: none"> - a description of the erosion and sediment control measures that would be implemented to mitigate any impacts in accordance with <i>Managing Urban Stormwater: Soils & Construction</i> (Landcom 2004); <ul style="list-style-type: none"> - Hazards – including: <ul style="list-style-type: none"> - an assessment of potential hazards and risks including but not limited to bushfires, electromagnetic fields or the proposed grid connection infrastructure against the <i>International Commission on Non-Ionizing Radiation Protection (ICNIRP) Guidelines</i> for limiting exposure to Time-varying Electric, Magnetic and Electromagnetic Fields; and - a Preliminary Hazard Analysis prepared in accordance with <i>Hazardous Industry Planning Advisory Paper (HIPAP) No. 6 – Guideline for Hazard Analysis</i> (DoP, 2011) and <i>Multi-Level Risk Assessment</i> (DoP, 2011) - a Quantitative Risk Assessment for the existing high pressure pipelines (gas and ethane) addressing risk criteria under <i>HIPAP No. 4</i> and <i>HIPAP No. 10</i>, taking into account site specific features and potential propagation risks between pipelines, - a assessment of compliance with Australian Standard AS 2885 prepared in consultation with APA Group and including a Safety Management Study where required. - Socio-Economic – including an assessment of the likely impacts on the local community, any demands on Council infrastructure and a consideration of the construction workforce accommodation; and - Waste – identify, quantify and classify the likely waste stream to be generated during construction and operation, and describe the measures to be implemented to manage, reuse, recycle and safely dispose of this waste.
Consultation	<p>During the preparation of the EIS, you should consult with relevant local, State or Commonwealth Government authorities, infrastructure and service providers, community groups, affected landowners and any exploration licence and/or mineral title holders.</p> <p>In particular, you must undertake detailed consultation with affected landowners surrounding the development, Goulburn Mulwaree Council.</p> <p>The EIS must describe the consultation process and the issues raised and identify where the design of the development has been amended in response to these issues. Where amendments have not been made to address an issue, a short explanation should be provided.</p>
Further consultation after 2 years	<p>If you do not lodge a Development Application and EIS for the development within 2 years of the issue date of these SEARs, you must consult further with the Planning Secretary in relation to the preparation of the EIS.</p>
References	<p>The assessment of the key issues listed above must take into account relevant guidelines, policies, and plans as identified. A list of some of the legislation, policies and guidelines that may be relevant to the assessment of the project can be found at:</p> <ul style="list-style-type: none"> - https://www.planningportal.nsw.gov.au/major-projects/assessment/policies-and-guidelines; and - http://www.environment.gov.au/epbc/publications#assessments



APPENDIX B

CONSULTATION LOG

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
4.1.2 AGENCY LETTERS						
	Goulburn- Mulwaree Council	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
	National Native Title Tribunal (NNTT)	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
	Pejar Local Aboriginal Land Council (LALC)	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
	Office of the Registrar (ORALRA)	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
	Native Title Services Corporation Limited	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
	South East Local Land Services (SELLS)	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
	Heritage NSW	Latisha Ryall	Premise	Email	7/5/2021	Agency Consultation Identification of Potential Interested Parties - Marulan Solar Farm
Latisha Ryall	Premise		Heritage NSW	Email	7/5/2021	Automated response
Latisha Ryall	Premise		NNTT	Email	7/5/2021	Automated response
Latisha Ryall	Premise		Goulburn Mulwaree Council	Email	7/5/2021	Council acknowledges receipt of your email
Latisha Ryall	Premise		SELLS	Email	7/5/2021	Automated response
Latisha Ryall	Premise	Barry Gunther	Heritage NSW	Email	9/5/2021	Response: DPC RAP list provided for the Marulan solar farm - Goulburn Mulwaree Local Government Area.
Latisha Ryall	Premise	Dion	NNTT	Email	11/5/2021	Request to forward email, along with a Geospatial Search Form, to the following email address: GeospatialSearch@NNTT.gov.au
Latisha Ryall	Premise		Geospatial Search Requests NNTT	Email	11/5/2021	Automated response
Latisha Ryall	Premise	Michelle Hughes	Goulburn Mulwaree Council	Email	11/5/2021	Advised to contact CEO at Pejar LALC
Latisha Ryall	Premise		Geospatial Services NNTT	Email	11/5/2021	Response advising no Native Title Determination Applications, Native Title or Indigenous Land Use Agreements on the study area
Latisha Ryall	Premise	Daniel Clegg	Department of Premier and Cabinet (Heritage NSW)	Email	17/5/2021	Response with DPC Heritage NSW RAP List
4.1.3 ADVERTISEMENT						
Koori Mail		Latisha Ryall	Premise	Print/Online	11/5/2021	Advert – Registration of Interest published 19 May 2021 Koori Mail – print

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Goulburn Post		Latisha Ryall	Premise	Print/Online	11/5/2021	Advert – Registration of Interest published in Goulburn Post on 19 May 2021 – online
4.1.3 INVITATION TO REGISTER						
Bo Field	Yurrandaali	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Lee Field	Barraby Cultural Services	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest, Delivery Failure
Arnold Williams	Ngunnawal Elders Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Delise Freeman	Pejar Local Aboriginal Land Council	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest, Delivery Failure
Wally Bell	Buru Ngunawal Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Ngunnawal Elder		Latisha Ryall	Premise	Mail	19/5/2021	Invitation to register interest sent via post
Sharyn Halls	Gundungurra Aboriginal Heritage Association Inc.	Latisha Ryall	Premise	Mail	19/5/2021	Invitation to register interest sent via post
Dorothy Carroll	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Mr Robert Young	Konanggo Aboriginal Cultural Heritage Services	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Dean Bell	Yurwang Gundana Consultancy Cultural Heritage Services.	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Tina Brown	King Brown Tribal Group	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Cherie Carroll Turrise	Gunjeewong Cultural Heritage Aboriginal Corporation	Latisha Ryall	Premise	Mail	19/5/2021	Invitation to register interest sent via post
Serena Williams	Yukkumbruk	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Darleen Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Newton Carriage	Nundagurri Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Hika Te Kowhai	Walbunja	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Basil Smith	Goobah Development Pty Ltd.	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Kylie Ann Bell	Gunyuu	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Lee-Roy Boota	Wullung	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Karia Lea Bond	Badu	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Robert Parsons	Yerramurra	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Jodie Stewart	Jerringong	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Shaun Carroll	Merrigarn Indigenous Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Hayley Bell	Wingikara	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Simalene Carriage	Bilinga	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Kaya Dawn Bell	Munyunga	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Pemulwuy Johnson	Pemulwuy	Latisha Ryall	Premise	Email	19/5/2021	Registered interest in project
Karrial Johnson	Karrial	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Lillie Carroll	Didge Ngunawal Clan	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Krystle Carroll	Ginninderra Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Jesse Johnson	Muragadi Heritage Indigenous Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Eddy Neumann,	Gundungurra Tribal Council Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Andrew White	Gundungurra Aboriginal Heritage Association Inc.	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Shane Carriage	THAUAIRA	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Ronald Stewart	WALGALU	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Gordon Campbell	Gadhu Dreaming	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Tyrone Bell	Thunderstone Aboriginal Cultural and Land Management Services Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Duncan Falk	Duncan Falk Consultancy	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
John Carriage	Thoorga Nura	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Janine Thompson		Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Robert Monaghan	Ngurambang	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
	Clorine Lyons	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Latisha Ryall	Premise	Mimecast	Mimecast	Email	19/5/2021	Email undelivered. wiraduricc@bigpond.com couldn't be delivered email address is possibly incorrect.
	Clorine Lyons	Latisha Ryall	Premise	Mail	19/5/2021	Invitation to register interest sent via post

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Peiro Delponte	Ngunawal Consultancy	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Sonia Shea	Oak Hill Enterprises	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Carol Slater	Gilay Consultants	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
Clive Freeman		Latisha Ryall	Premise	Email	19/5/2021	Invitation to register interest
4.1.3 RAP RESPONSE						
Latisha Ryall	Premise	Tyrone and Bronwyn	Thunderstone Aboriginal Cultural and Land Management Services Aboriginal Corporation	Email	19/5/2021	Automatic Response received acknowledging receipt of email however, no registration received
Latisha Ryall	Premise	Lilly Carroll and Paul Boyd	DNC	Email	19/5/2021 20/5/2021	Registering an interest Paul Boyd is nominated contact
Latisha Ryall	Premise	Delise Freeman	Pejar LALC	Email	19/5/2021	Registering an interest
Latisha Ryall	Premise	Tammy Muscat	Ngunawal Consultancy	Email	19/5/2021	Registering an interest
Latisha Ryall	Premise	Darleen Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Email	19/5/2021	Registering an interest
Latisha Ryall	Premise	Jesse Johnson	Muragadi Heritage Indigenous Corporation	Email	19/5/2021	Registering an interest
Latisha Ryall	Premise	Shaun Carroll	Merrigarn Indigenous Corporation	Email	19/5/2021	Registering an interest
Latisha Ryall	Premise	Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Email	20/5/2021	Registering an interest would not like details forwarded to LALC attached letter Please also note that we do not wish our details to be forwarded to the Pejar Local Aboriginal Land Council.
Latisha Ryall	Premise	Robert Young	Konanggo Aboriginal Cultural Heritage Services	Email	21/05/2021	Registering an interest
Latisha Ryall	Premise	Clive Freeman	Freeman&marx PtyLtd	Email	21/05/2021	Registering an interest responding on behalf of Freeman & Marx Pty Ltd
Latisha Ryall	Premise	Jennie Gordon	Mulwaree Aboriginal Community Inc	Email	22/05/2021	Registering an interest
Latisha Ryall	Premise	Rob/ c- Arni Williams	Ngunnawal Elders Corporation	Email	24/05/2021	Registering an interest
Latisha Ryall	Premise	Wally Bell	Buru Ngunawal Aboriginal Corporation (BNAC) Ngunawal Traditional	Email	25/05/2021	Registering an interest on behalf of Buru Ngunawal Aboriginal Corporation (Ngunawal Traditional Custodian Group)

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
			Custodian Group			
Latisha Ryall	Premise	Duncan Falk	Duncan Falk Consultancy	Email	26/05/2021	Registering an interest
Latisha Ryall	Premise	Dean Bell	Yurwang Gundana Cultural Heritage Services	Email	26/05/2021	Registering an interest with attached letter provided
Latisha Ryall	Premise	Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	Email	27/5/2021	Registering an interest Please do not disclose any of our details to LALC nor publish our correspondence for LALC to peruse. Please only note our corporation details i.e. our name and only for registration purposes. As noted our details are not to be passed on/disclosed to LALC. We understand your need for confirmation of our corporations name on your lists for registered stakeholders, in that we have responded for inclusion, to participate on all levels. The use of our name as registered party, is fine, however non-disclosure of our actual correspondence, please. Just our name and contact details as registered stakeholders for your records and proponents. Thanks.
Latisha Ryall	Premise	Merekai Bell	Yurwang Gundana Cultural Heritage Services	Email	21/06/2021	Email regarding update enquiry on the MSF to see if selected as one of the RAPS.
David Walker	Premise	Josephine Reardon	Yurwang Gundana Cultural Heritage Services.	Phone call	03/08/2021	Enquiring about project status and methodology and to confirm if Yurwang Gundana was registered. DW advised that the issue of the methodology was imminent and confirmed that Yurwang Gundana is registered with Dean Bell as the contact.
4.1.6 NOTIFICATION OF REGISTERED ABORIGINAL PARTIES						
Daniel Clegg	Heritage NSW	Latisha Ryall	Premise	Email	9/6/2021	List of registered Aboriginal Parties (as per Section 4.1.6)
Delise Freeman	Pejar Local Aboriginal Land Council	Latisha Ryall	Premise	Email	9/6/2021	List of registered Aboriginal Parties (as per Section 4.1.6)
Latisha Ryall	Premise	Delise Freeman	Pejar LALC	Email	10/6/2021	Notification of concerns over who has registered for the project, advising some people have no local knowledge of the area. There are certain groups that Pejar LALC believe should not be included in this consultation requirement. How can you deal with these people when they aren't even of Aboriginal descent?
Delise Freeman	Pejar Local Aboriginal Land Council	Latisha Ryall	Premise	Email	16/6/2021	Response to concerns over registered parties. Advised that consultation has been undertaken in accordance with the guidelines and have registered all

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
						parties who have shown an interest in the project. Also advised that those with local knowledge of the area will be consulted more comprehensively than those who do not.
Latisha Ryall	Premise	Delise Freeman	Pejar LALC	Email	16/06/2021	Advised that there are currently 2 groups that have local Knowledge over the others. Buru Ngunnawal – Wally Bell and Pejar LALC. Advised the rest who say they have local knowledge have none. Delise advised that under the Guidelines the proponent gets to choose who is involved in the fieldwork and has chosen only Pejar LALC and Buru Ngunnawal. The rest have only been consulted.
Delise Freeman	Pejar Local Aboriginal Land Council	Latisha Ryall	Premise	Email	16/06/2021	Response to LALC advising that the Proponent has yet to consult on fieldwork.
4.2 ACHAR AND SURVEY METHODOLOGY – Marulan Solar Farm						
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Lilly Carroll and Paul Boyd	DNC	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Tammy Muscat	Ngunawal Consultancy	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Darleen Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Jesse Johnson	Muragadi Heritage Indigenous Corporation	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Shaun Carroll	Merrigarn Indigenous Corporation	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Robert Young	Konanggo Aboriginal Cultural Heritage Services	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Clive Freeman	Freeman&marx PtyLtd	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Jennie Gordon	Mulwaree Aboriginal Community Inc	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Rob/ c- Arni Williams	Ngunnawal Elders Corporation	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
Wally Bell	Buru Ngunawal Aboriginal Corporation (BNAC) Ngunawal Traditional Custodian Group	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	Latisha Ryall	Premise	Email	24/08/2021	Draft ACHAR and Survey Methodology
4.2 SURVEY METHODOLOGY RESPONSE						
Latisha Ryall	Premise	Lilly Carroll	DNC	Email	24/08/2021	Supports methodology
Latisha Ryall	Premise	Merekai Bell	Yurwang Gundana Cultural Heritage Services	Phone call/ Email	24/08/2021	Supports methodology and would like to know when the survey is likely to occur.
Merekai Bell	Yurwang Gundana Cultural Heritage Services	Latisha Ryall	Premise	Email	25/08/2021	Response to email advising survey is likely to occur in the next few months and will keep everyone updated on timeframes and number of required representatives
Latisha Ryall	Premise	Delise Freeman	Pejar LALC	Email	26/08/2021	Email advising Marulan is very high in Aboriginal Cultural Heritage. There have been a number of Aboriginal Heritage sites recorded, however a number of times sites haven't shown up when a search has been carried out on AHIMS – Response indicating sites have been mapped .
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Email	26/08/2021	Response indicating AHIMS search has been undertaken and sites have been mapped
Latisha Ryall	Premise	Jesse Johnson		Email	6/09/2021	Supports methodology
Latisha Ryall	Premise	Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Email	13/09/2021	Supports methodology and provided further information
SITE SURVEY						
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Email	6/9/2021	Email regarding survey dates and invitation for one representative to attend field survey.
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Phone/ Email	13/9/2021	Email follow up and phone call regarding survey dates and invitation for one representative to attend field survey. Delise advised a LALC attendee will be able to attend the field survey
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Phone/ Email	22/9/2021	Email follow up and phone call regarding COVID SWMS, survey dates and meeting times for next week.
Latisha Ryall	Premise	Delise Freeman	Pejar LALC	Email	22/09/2021	Response sending through insurances as requested and response acknowledging received insurances from L. Ryall
Ben Churcher Delise Freeman	OzArk EHM Pejar LALC	Latisha Ryall	Premise	Email	23/09/2021	Email confirming site survey and meeting location
Latisha Ryall	Premise			Site Survey	27/9/2021- 30/09/2021	Undertaken Site Survey
Ben Churcher	OzArk EHM			Site Survey	27/9/2021- 30/09/2021	Undertaken Site Survey
Ashleigh Croker	Pejar LALC			Site Survey	27/9/2021- 30/09/2021	Undertaken Site Survey

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Latisha Ryall	Premise	Merekai Bell	Yurwang Gundana Cultural Heritage Services	Phone call	29/09/2021	Phone call regarding interest of field work for the project. Advised that currently undertaken field survey with a representative of Pejar LALC and will inform everyone who has registered if future field works are to occur.
TEST EXCAVATION METHODOLOGY						
Delise Freeman	Pejar LALC	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Lilly Carroll and Paul Boyd	DNC	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Tammy Muscat	Ngunawal Consultancy	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Darleen Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Jesse Johnson	Muragadi Heritage Indigenous Corporation	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Shaun Carroll	Merrigarn Indigenous Corporation	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Clive Freeman	Freeman&marx PtyLtd	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Jennie Gordon	Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Rob/ c- Arni Williams	Ngunnawal Elders Corporation	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Wally Bell	Buru Ngunawal Aboriginal Corporation (BNAC) Ngunawal Traditional Custodian Group	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for review
Heritage NSW		David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for Heritage NSW review
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	David Walker	Premise	Email	24/11/2021	Addendum Draft Test Excavation Methodology for Heritage NSW review
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	David Walker	Premise	Registered mail	24/11/2021	Addendum Draft Test Excavation Methodology for Heritage NSW review
Duncan Falk	Duncan Falk Consultancy	David Walker	Premise	Registered mail	24/11/2021	Addendum Draft Test Excavation Methodology for Heritage NSW review
Wally Bell	Buru Ngunawal Aboriginal Corporation	David Walker	Premise	Registered mail	24/11/2021	Addendum Draft Test Excavation Methodology for Heritage NSW review

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Dean Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Registered mail	24/11/2021	Addendum Draft Test Excavation Methodology for Heritage NSW review
TEST EXCAVATION METHODOLOGY RESPONSE						
David Walker	Premise	Jesse Johnson	Muragadi Heritage Indigenous Corporation	Email	24/11/2021	Has reviewed draft and endorses recommendations. Would like to be involved in field work.
David Walker	Premise	Shaun Carroll	Merrigarn Indigenous Corporation	Email	24/11/2021	Has reviewed draft and agrees with recommendations. Would like to be involved in field work.
David Walker	Premise	Ryan Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Email	24/11/2021	Has reviewed draft and endorses with recommendations. Would like to be involved in field work if chosen.
David Walker	Premise	Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	Email	24/11/2021	Bounce back email. The user(s) account is temporarily over quota.
Latisha Ryall	Premise	Lilly Carroll	DNC	Email	24/11/2021	Has reviewed draft and endorses recommendations. Would like to be involved in field work.
David Walker	Premise	Clive Freeman	Freeman&marx PtyLtd	Email	24/11/2021	Has two officers available to take part in the fieldwork.
David Walker	Premise	Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	Email	25/11/2021	Please resend email of 24/11/21
Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	David Walker	Premise	Email	25/11/2021	Addendum Draft Test Excavation Methodology for review
David Walker	Premise	Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	Email	25/11/2021	Request clarification as to whether involvement in field work is being requested?
Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	David Walker	Premise	Email	25/11/2021	Confirmed. Please provide EOI as to interest in being involved in field work.
David Walker	Premise	Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	Email	25/11/2021	Expressed interest in involvement in field work including experience and capability
Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	David Walker	Premise	Email	25/11/2021	Confirm any comments on the re-attached site survey addendum methodology.
David Walker	Premise	Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	Email	25/11/2021	Agree the addendum methodology
David Walker	Premise	Shaun Carroll	Merrigarn Indigenous Corporation	Email	25/11/2021	Expressed interest in taking part in site survey

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
David Walker	Premise	Jesse Johnson	Muragadi Heritage Indigenous Corporation	Email	29/11/2021	Request status update on timing and process for site survey
Jesse Johnson	Muragadi Heritage Indigenous Corporation	David Walker	Premise	Email	29/11/2021	Advice provided that collation of expressions of interest and coordination with Heritage NSW is currently occurring. RAPs will be contacted within the next week or 2 to arrange field survey.
Latisha Ryall	Premise	Merekai Bell	Yurwang Gundana Cultural Heritage Services	Email	29/11/2021 6/12/2021	Expressed interest in test excavation participation Response advising will wait to hear on participation involvement
TEST EXCAVATION METHODOLOGY FOLLOW UP						
Delise Freeman	Pejar LALC	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Wally Bell	Buru Ngunawal Aboriginal Corporation (BNAC) Ngunawal Traditional Custodian Group	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Tammy Muscat	Ngunawal Consultancy	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Clive Freeman	Freeman&marx PtyLtd	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Jennie Gordon	Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Rob/ c- Arni Williams	Ngunawal Elders Corporation	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	David Walker	Premise	Email	1/12/21	Follow up email to those RAPs who had not yet responded
David Walker	Premise	Robert Young	Konanggo Aboriginal Cultural Heritage Services	Email	1/12/21	Response to confirm acceptance of the methodology and register interest in involvement with field survey
David Walker	Premise	Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Email	1/12/2021	Response to confirm acceptance of the methodology and register interest in involvement with field survey
David Walker	Premise	Duncan Falk	Duncan Falk Consultancy	Email	5/12/2021	Comments on sieving methods and dampness of ground. No objection to methodology. Register interest in involvement with field survey.
COMMUNITY ENGAGEMENT SESSION						
Delise Freeman	Pejar LALC	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Lilly Carroll and Paul Boyd	DNC	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Tammy Muscat	Ngunawal Consultancy	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Darleen Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Jesse Johnson	Muragadi Heritage Indigenous Corporation	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Shaun Carroll	Merrigarn Indigenous Corporation	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Clive Freeman	Freeman&marx PtyLtd	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Jennie Gordon	Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Rob/ c- Arni Williams	Ngunnawal Elders Corporation	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Wally Bell	Buru Ngunawal Aboriginal Corporation (BNAC) Ngunawal Traditional Custodian Group	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	David Walker	Premise	Email	6/12/21	Extend invitation to project community engagement webinars to be held on the 7 and 15 December
ADDENDUM – SITE SURVEY METHODOLOGY RESPONSES						
David Walker	Premise	Jennie Gordon	Mulwaree Aboriginal Community Inc	Email	6/12/2021	Response to email seeking comments on methodology and expressions of interest in involvement in field survey – will provide a response within 2 days.
David Walker	Premise	Delise Freeman	Pejar LALC	Email	6/12/2021	Register interest in involvement with field survey
David Walker	Premise	Ryan Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Email	6/12/2021	Seek update on timing of field survey
Ryan Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	6/12/2021	Confirmed details of site survey timing to be provided this week.
Jennie Gordon	Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	7/12/2021	Follow up email to confirm response to methodology and interest in field survey involvement
David Walker	Premise	Robert Young	Konanggo Aboriginal Cultural Heritage Services	Email	7/12/2021	Confirmed intention to attend community engagement session on the 15 December

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
4.3 TEST EXCAVATION PARTICIPATION						
Jennie Gordon	Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	7/12/2021	Confirmation email to Mulwaree Mulwaree Aboriginal Community Inc to see if they are interested in being involved in the field work for the week 20th December?
Delise Freeman	Pejar LALC	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Duncan Falk	Duncan Falk Consultancy	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Darlene Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Jesse Johnson	Muragadi Heritage Indigenous Corporation	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Shaun Carroll	Merrigarn Indigenous Corporation	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Clive Freeman	Freeman&marx PtyLtd	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
Jennie Gordon	Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	08/12/2021	Issue draft roster for field survey
David Walker	Premise	Delise Freeman	Pejar LALC	Email	10/12/2021	I am so disappointed in the fact that you have Freeman and Marx included in the fieldwork. They do not have cultural knowledge of the area and therefore should not be involved. I would also like to point out that we are closed from Friday the 17 December and should have been given more notice or at least consulted with to when these works would be happening. However, I will try and have someone available if this is possible.
Delise Freeman	Pejar LALC	David Walker	Premise	Email	10/12/2021	Email seeking confirmation of LALC availability for field survey week starting 20 th December.
David Walker	Premise	Delise Freeman	Pejar LALC	Email	10/12/2021	You have not answered my concerns? Why have you included Freeman and Marx in the fieldwork when they do not hold cultural Knowledge of the area???
Delise Freeman	Pejar LALC	David Walker	Premise	Email	10/12/2021	It is the discretion of the project to decide who to employ for the provision of services.
Delise Freeman	Pejar LALC	David Walker	Premise	Phone	15/12/2021	Rang and left a message for Delise to confirm availability for field survey next week.
Delise Freeman	Pejar LALC	David Walker	Premise	Phone	17/12/2021	Rang and left a message for Delise to confirm availability for field survey next week.

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Duncan Falk	Duncan Falk Consultancy	David Walker	Premise	Phone	17/12/2021	DW rang and spoke to Duncan to confirm availability for field survey next week. Duncan confirmed available and willing to do other days if required.
Dean Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Phone	17/12/2021	DW rang and spoke to Dean to confirm availability for field survey next week. Dean confirmed but recommended speaking to Merekai Bell who has taken over the company.
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Phone	17/12/2021	Rang Merekai and left a message to confirm availability for next week.
Latisha Ryall	Premise	Marilyn Carroll Johnson	Corroboree Aboriginal Corporation	Email	17/12/2021	Email requesting meeting point and site contact information for test excavation program
David Walker	Premise	Anonymous		Phone call	20/12/2021	Anonymous caller to David Walker to note that Murri Bidgee Mullangari Aboriginal Corporation has not provided indigenous representatives on field work participation and the Pejar LALC have been notified that this is unacceptable
Delise Freeman	Pejar LALC	David Walker	Premise	Phone	20/12/21	Rang to confirm availability for field work this week. Delise was annoyed that she had not received a response to her email last week advising of the proponent details so that she could make a complaint. I explained that I had rung her twice last week to discuss the project and left messages both times for her to call me to discuss. Delise indicated she did not receive the messages. I confirmed I would send through the proponent details so that she could make a complaint. Delise stated that that was all well and good now that work was occurring on site and it was too late for the complaint to be actioned. I explained we were working within the ACHA framework and that the proponent had made the decision on who to take on site for the survey, taking advice from the project archaeologist. I asked Delise to confirm if the LALC would provide representatives for the field work this wed-thur-fri. Delise confirmed someone would be available.
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Phone	20/12/21	Rang Merekai to confirm availability for field work this wed-thur-fri. Merekai confirmed he was available. I confirmed we would send meeting details before the end of the day.
Delise Freeman	Pejar LALC	David Walker	Premise	Email	20/12/21	Written follow up from earlier phone call. Provide proponent details as requested by email.
Ryan Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	21/12/21	Confirm if any days of survey/testing would be offered
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Delise Freeman	Pejar LALC	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Lilly Carroll	Didge Ngunawal Clan	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Duncan Falk	Duncan Falk Consultancy	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Darlene Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Shaun Carroll	Merrigarn Indigenous Corporation	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Jesse Johnson	Muragadi Heritage Indigenous Corporation	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
Clive Freeman	Freeman&marx PtyLtd	David Walker	Premise	Email	21/12/21	Confirm rates for survey/testing
David Walker	Premise	Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	Email	24/01/22	Request confirmation of when additional survey/testing would be completed.
Delise Freeman	Pejar LALC	David Walker	Premise	Email	08/02/22	Invite participation in proposed further survey/testing to be completed on the 22/23 February
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Email	08/02/22	Invite participation in proposed further survey/testing to be completed on the 22/23 February
Lilly Carroll	Didge Ngunawal Clan	David Walker	Premise	Email	08/02/22	Invite participation in proposed further survey/testing to be completed on the 22/23 February
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	08/02/22	Invite participation in proposed further survey/testing to be completed on the 22/23 February
Duncan Falk	Duncan Falk Consultancy	David Walker	Premise	Email	08/02/22	Invite participation in proposed further survey/testing to be completed on the 22/23 February
Delise Freeman	Pejar LALC	David Walker	Premise	Email	18/02/22	Email to confirm availability for site survey next week
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Email	18/02/22	Email to confirm availability for site survey next week

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
4.4 DRAFT ACHAR REVIEW						
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Lilly Carroll	Didge Ngunawal Clan	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Duncan Falk	Duncan Falk Consultancy	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Robert Young	Konanggo Aboriginal Cultural Heritage Services	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Darlene Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Shaun Carroll	Merrigarn Indigenous Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Jesse Johnson	Muragadi Heritage Indigenous Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Clive Freeman	Freeman&marx PtyLtd	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Wally Bell	Buru Ngunawal Aboriginal Corporation	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Jennie Gordon	Mulwaree Mulwaree Aboriginal Community Inc	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
Peiro Delponte	Ngunawal Consultancy	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR
	Wally Bell	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR to separate email
Merekai Bell	Yurwang Gundana	Latisha Ryall	Premise	Email	31/03/22	Issue draft ACHAR to separate email
Delise Freeman	Pejar LALC	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Lilly Carroll	Didge Ngunawal Clan	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Duncan Falk	Duncan Falk Consultancy	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Darlene Johnson	Murri Bidgee Mullangari Aboriginal Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Shaun Carroll	Merrigarn Indigenous Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Jesse Johnson	Muragadi Heritage Indigenous Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Clive Freeman	Freeman&marx PtyLtd	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Wally Bell	Buru Ngunawal Aboriginal Corporation	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Jennie Gordon	Mulwaree Mulwaree Aboriginal Community Inc	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Peiro Delponte	Ngunawal Consultancy	David Walker	Premise	Email	13/04/22	Chaser on draft ACHAR
Delise Freeman	Pejar LALC	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Lilly Carroll	Didge Ngunawal Clan	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Merekai Bell	Yurwang Gundana Consultancy Cultural Heritage Services	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Duncan Falk	Duncan Falk Consultancy	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Robert Young	Konanggo Aboriginal Cultural Heritage Services	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Darlene Johnson	Murri Bidgee Mullangari Aboriginal Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Shaun Carroll	Merrigarn Indigenous Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Jesse Johnson	Muragadi Heritage Indigenous Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR

Contact	Organisation/RAP	Contacted by	Organisation	Method	Date	Comment/ Response
Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Clive Freeman	Freeman&marx PtyLtd	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Wally Bell	Buru Ngunawal Aboriginal Corporation	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Jennie Gordon	Mulwaree Mulwaree Aboriginal Community Inc	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
Peiro Delponte	Ngunawal Consultancy	Latisha Ryall	Premise	Email	26/04/22	Reminder on draft ACHAR
4.4 DRAFT ACHAR RESPONSE						
David Walker	Premise	Lilly Carroll	DNC	Email	14/04/22	DNCE is happy with everything at this stage.
Latisha Ryall	Premise	Dean Delponte	Ngunawal Heritage Aboriginal Corporation	Email	22/04/2022	Response to Draft ACHAR – supports ACHAR
Latisha Ryall	Premise	Jennie Gordon	Mulwaree Aboriginal Community Inc	Email	26/04/2022	Response to Draft ACHAR – supports ACHAR recommendations for history section to be updated
Latisha Ryall	Premise	Jennie Gordon	Mulwaree Aboriginal Community Inc	Phone call and email	28/04/2021	Phone call from Jennie to discuss email response provided on 26/4/2022. Discussions on history and songlines to be updated in report. Email with supporting information provided by Jennie.
Latisha Ryall/David Walker	Premise	Robert Young	Konanggo Aboriginal Cultural Heritage Services	Email/ Phone call	2/05/2022	Apology for late email reply informed that he could not open the link and has been on another project last week and will call David Walker.
Robert Young	Konanggo Aboriginal Cultural Heritage Services	David Walker	Premise	Email	2/05/2022	Email response providing link to report and to contact Latisha by end of 2/5/2022 for any further queries.
Jennie Gordon	Mulwaree Aboriginal Community Inc	Latisha Ryall	Premise	Email	3/05/2022	Response to email 26/04/2022 with addressed changes.

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Yurrandaali
6 Macgibbon Parade
OLD EROWAL BAY NSW 2540

Via email: yurrandaali_cs@hotmail.com

Dear Bo Field

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the NSW *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) for the project have now been issued (SSD 13137914), which includes the following requirements:

- identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with these requirements, Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

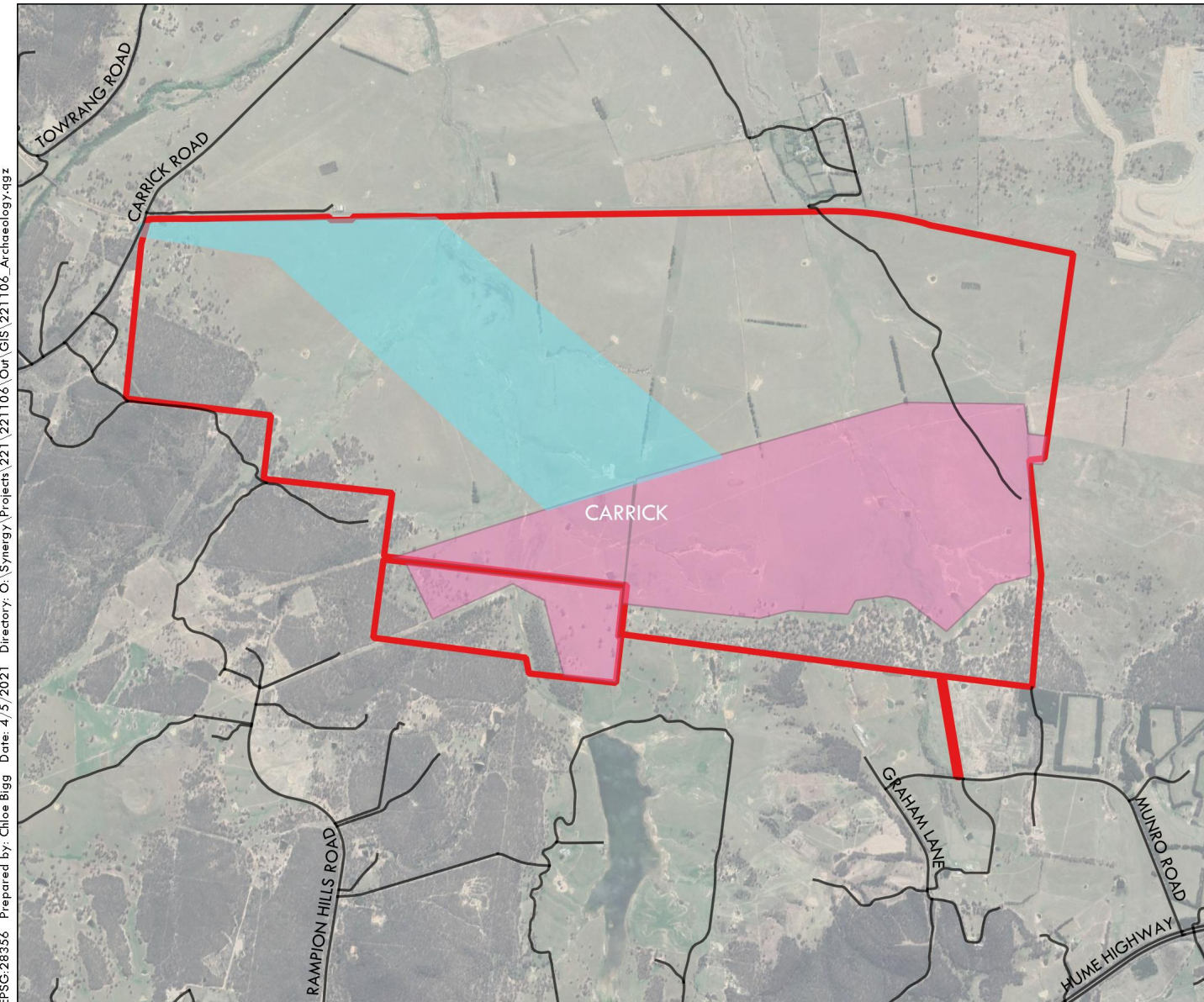
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Barraby Cultural Services
10B Elphin Street
TAHMOOR NSW 2573

Via email: barrabyculturalservices@gmail.com

Dear Lee Field

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with these requirements, Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

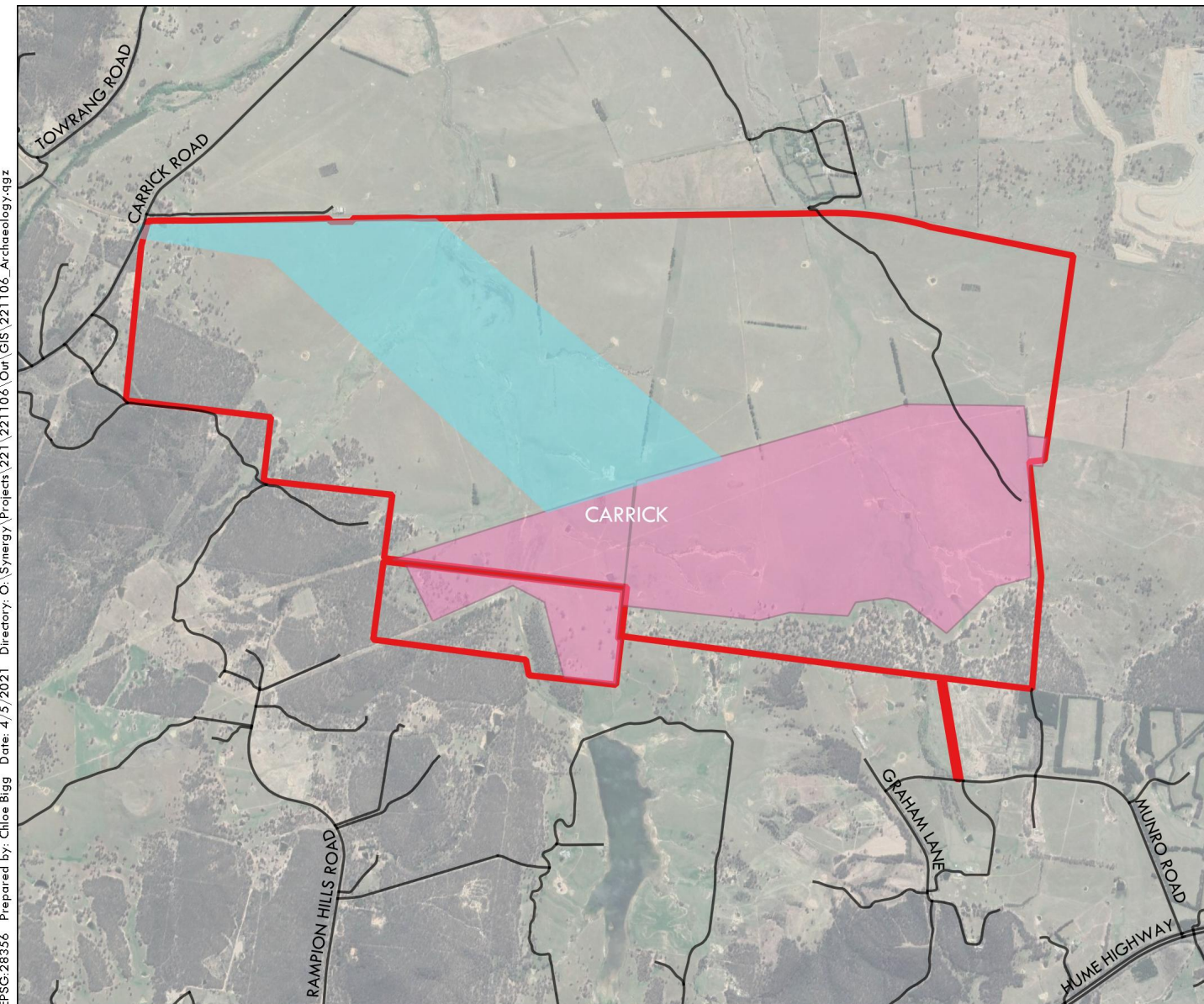
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Ngunnawal Elders Corporation
13 Fitzgibbon Place
QUEANBEYAN NSW 2620

Via email: blakneycreek@gmail.com

Dear Arnold Williams

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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The project is being assessed as a State Significant Development under the NSW *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) for the project have now been issued (SSD 13137914), which includes the following requirements:

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- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
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- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with these requirements, Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

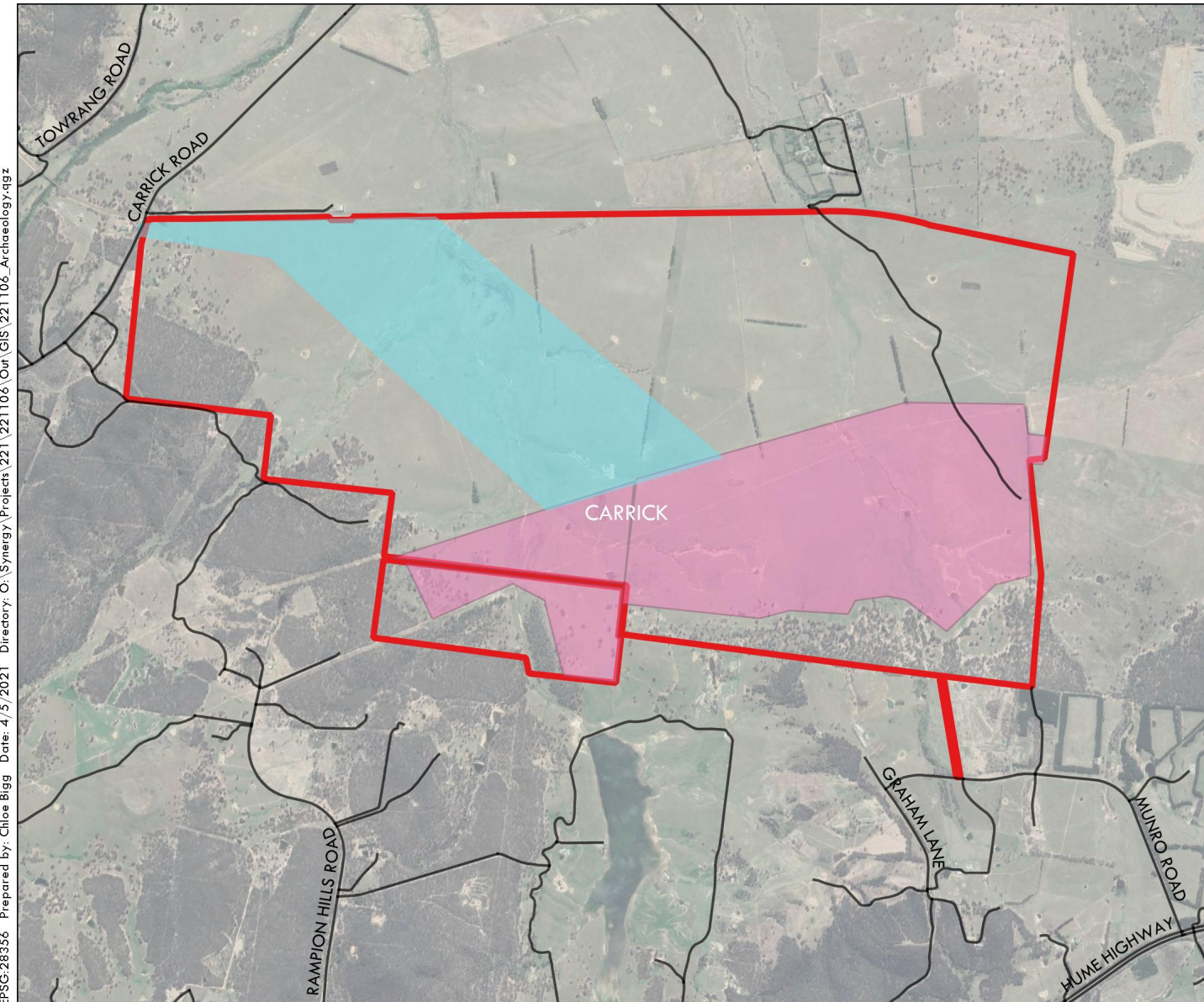
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Latisha Ryall

From: Arni Williams <blakneycreek@gmail.com>
Sent: Monday, 24 May 2021 11:25 AM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Latisha,

I hope this email finds you well.

Ngunnawal Elders Corporation wishes to register our interests for consultation for the proposed Carrick Solar Farm. Based on the proposed study area map, we concur that a thorough reconnaissance survey be undertaken with Aboriginal Stakeholders in order to identify sites of Aboriginal significance. The southern border of the site appears to encroach on hilly and heavily wooded land with clear drainage gullies. These are areas with high probability for archaeological sites, including cultural trees - scarred and altered.

In addition, the area holds importance as it is situated close to the boundary of Kamberri, Gundagarra and Ngunnawal speaking groups, as well as, located close to areas of Weewara and Lake Bathurst which are of the utmost cultural importance with archaeological sequences dating back many millenia. Detailed records regarding the Aboriginal groups who occupied these areas during the 19th century and later can be found in Ann Jackson-Nakano's work "The Pajong and Wallabalooa" which identifies descendant groups - from which, we trace one of our decent lines through the Simpson families.

This looks like a great project and we trust that the Aboriginal heritage will be treated in a proper or fitting manner.

Yours in culture
Rob
Site Officer
Ngunnawal Elders Corporation

On Wed, May 19, 2021 at 8:49 AM Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Ngunnawal Elders Corporation

13 Fitzgibbon Place

QUEANBEYAN NSW 2620

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Pejar Local Aboriginal Land Council
PO Box 289
GOULBURN NSW 2580

Via email: pejar1@bigpond.com

Dear Delise Freeman

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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Terrain Solar
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Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

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Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

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If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

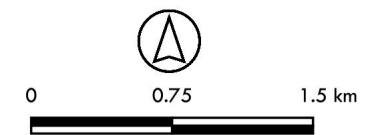
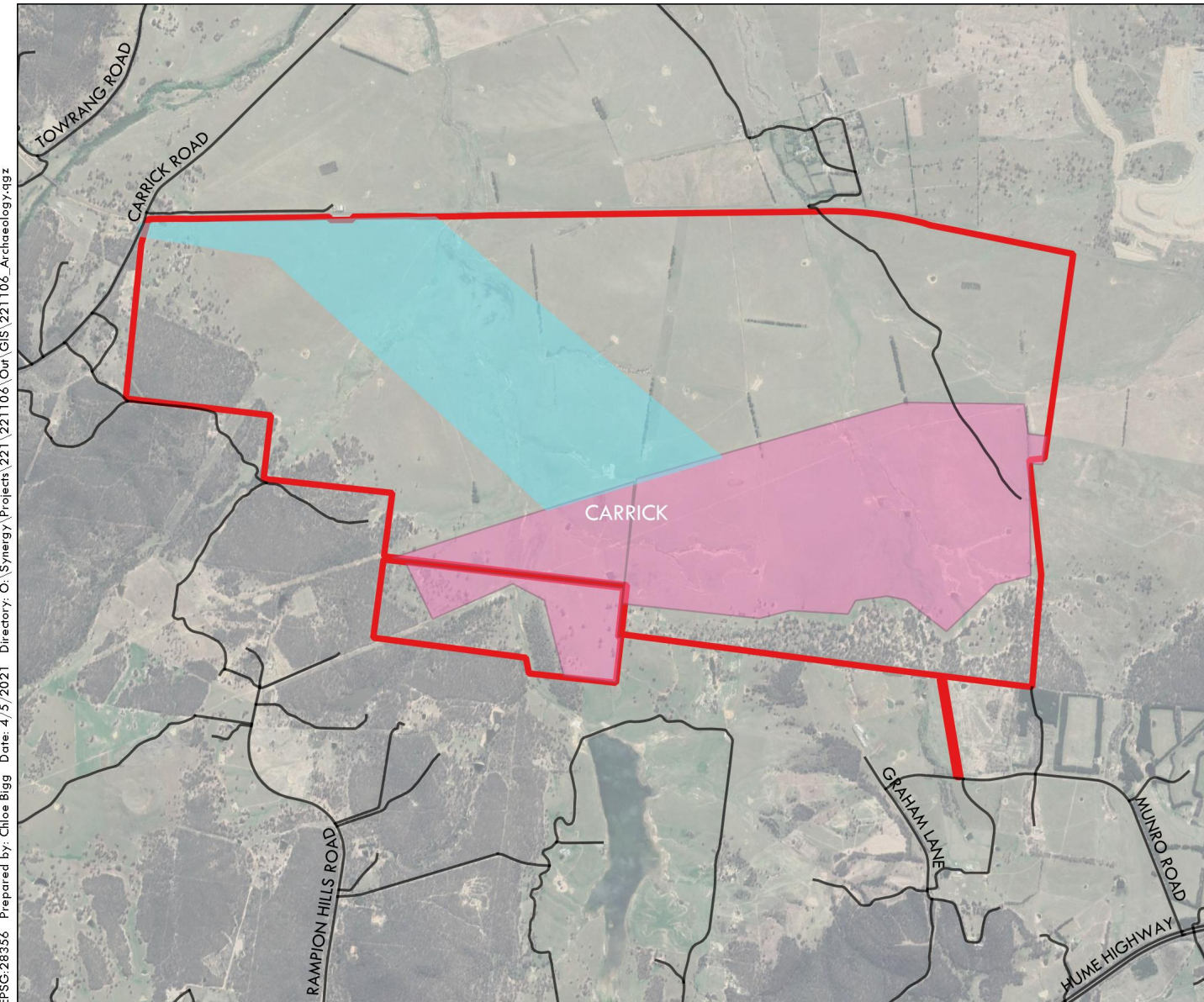
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



Source: Google Satellite

Latisha Ryall

From: Pejar LALC <pejar1@bigpond.com>
Sent: Wednesday, 19 May 2021 9:28 AM
To: Latisha Ryall
Subject: RE: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Good Moring Latisha

Thank you for your email. Please accept this email as an interested party to this proposed development.

The Pejar Local Aboriginal Land Council is the peak Aboriginal Body for this area. Once the proponent is ready to move forward could you please advise us when you will be carrying out the Archaeological Inspection as we will need at least a week or two notice.

Looking forward to hearing from you soon.

Kind regards

Delise Freeman, JP
CEO
Pejar Local Aboriginal Land Council
80 Combermere Street
Or PO Box 289
Goulburn NSW 2580
(T) 0248223552
(F) 0248223551
(M) 0417254813

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 19 May 2021 8:50 AM
To: pejar1@bigpond.com
Subject: Marulan Solar Farm_4.1.3 Registration of Interest

18 May 2021

Pejar Local Aboriginal Land Council
PO Box 289
GOULBURN NSW 2580

Via email: pejar1@bigpond.com

Dear Delise Freeman

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Buru Ngunawal Aboriginal Corporation
PO Box 255
KIPPAX ACT 2615

Via email: walbell@bigpond.net.au

Dear Wally Bell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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Yours sincerely



LATISHA RYALL
Archaeologist





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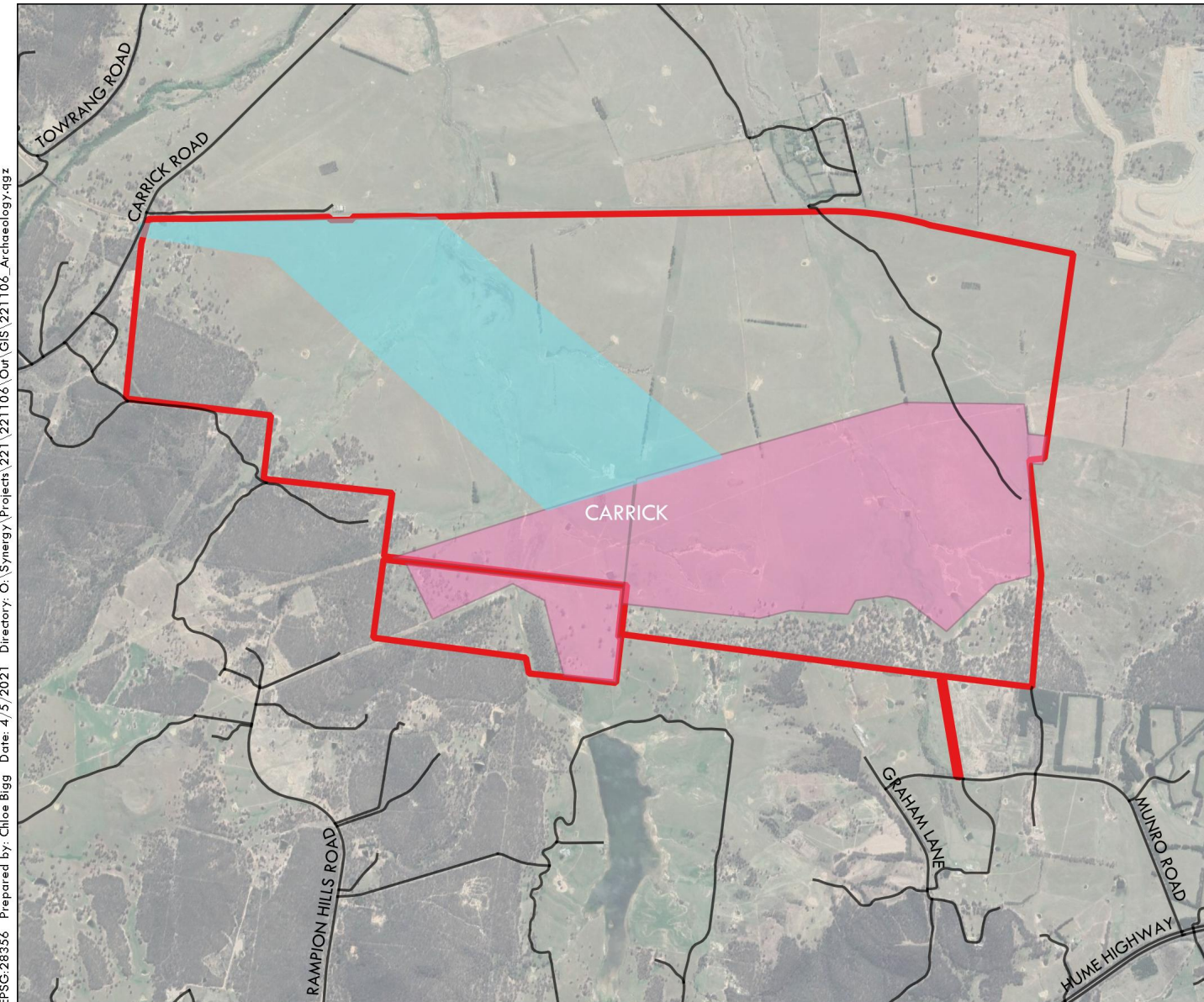
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Source: Google Satellite

Latisha Ryall

From: Wally Bell <walbell@bigpond.net.au>
Sent: Tuesday, 25 May 2021 9:45 PM
To: Latisha Ryall
Subject: RE: Marulan Solar Farm_4.1.3 Registration of Interest
Attachments: Marulan Solar Farm - Premise Aust PL - May'21.docx

Hi Latisha,

Thank you for the invitation to consult on this project. Please find attached our registration of interest in the process for community consultation.

Cheers,

Wally Bell



Ngunawal Traditional Custodian Group
PO Box 255 Kippax ACT 2615
Mb: 0419 425347
www.buru-ngunawal.com

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 19 May 2021 8:50 AM
To: walbell@bigpond.net.au
Subject: Marulan Solar Farm_4.1.3 Registration of Interest

18 May 2021

Buru Ngunawal Aboriginal Corporation
PO Box 255
KIPPAX ACT 2615

Via email: walbell@bigpond.net.au

Dear Wally Bell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**



REGISTRATION OF INTEREST

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Buru Ngunawal Aboriginal Corporation wish to register an interest for:

Marulan Solar Farm Proposed Development – Section 4.1.3

We offer the following information in support of our expression of interest:

Organisation: Buru Ngunawal Aboriginal Corporation (BNAC)
Name: Mr Walter (Wally) R Bell
Contact Details:
Postal Address: PO Box 255, Kippax ACT 2615
Mb: 0419 425 347
Email: wally@buru-ngunawal.com

Connection & Knowledge

BNAC's members, the NGUNAWAL people, are the Traditional Custodians for this area covering approximately 17,000 square kilometres and all are of direct Ngunawal descent. BNAC is an incorporated organisation whose constitution and rules of governance state that we as an organisation will endeavour to protect our Aboriginal culture and heritage to the best of our collective abilities. Being part of the consultative/planning process will ensure that the proper protection and preservation of our culture and heritage continues. As the Traditional Custodians we possess knowledge of all aspects of local Ngunawal Aboriginal cultural heritage. Our organisation has cultural knowledge relevant to determining the significance of Aboriginal object(s) and/or place(s) within the project area.

BNAC being Ngunawal people are the Traditional Custodians and are recognised as such by the Australian Capital Territory Government and Department of Premier and Cabinet, Heritage NSW. This recognition is also forthcoming by Local Government Agencies and Shire Councils within the Ngunawal Ancestral boundary.

The Ngunawal people, have had in place a Native Title claim that has been registered with the National Native Title Tribunal which requires stringent guidelines to be met for registration as Native Title claimants. The most important of which is a proven connection to country as the Traditional Custodians.

Consultation Expertise

The qualifications and previous experience that we have in Aboriginal cultural heritage assessment work has come from over 35 years' experience working on jobs such as the Eastern Gas pipeline, Gas pipeline and Water Sewerage pipeline at Goulburn NSW, Towrang NSW road widening for the RTA, Yass NSW Bypass, Coolac NSW Bypass for the RTA, Galong Lime Mine Bypass, Transgrid power easement regeneration at Tidbinbilla, Woodlawn Windfarm at Tarago NSW and the Department of Defence HQJOC and the gas feeder main connecting HQJOC to Eastern Gas main pipeline. We have also been engaged in survey work for residential development that takes place within the Ngunawal Ancestral boundary in both urban and rural localities.

BNAC holds information in relation to the Aboriginal cultural values of this project area and all other areas within our ancestral boundary. BNAC has a proven track record for providing the proponent, the archaeologist and the Government direction in formulating management recommendations in relation to any Aboriginal cultural values, sites and places both tangible and intangible within our ancestral boundary.

During our years of carrying out Cultural heritage management type work we have engaged with numerous archaeologists who have indicated that they are more than pleased to support us in our endeavours to preserve our cultural heritage.

Regards,

A handwritten signature in black ink, appearing to read 'Wally Bell', with a stylized, flowing script.

Mr Wally Bell (Ngunawal Traditional Custodian)
Chair

On behalf of BNAC members

25 May 2021

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Ngunnawal Elder
23 Wilton Road
DOONSIDE NSW 2767

Dear Elder

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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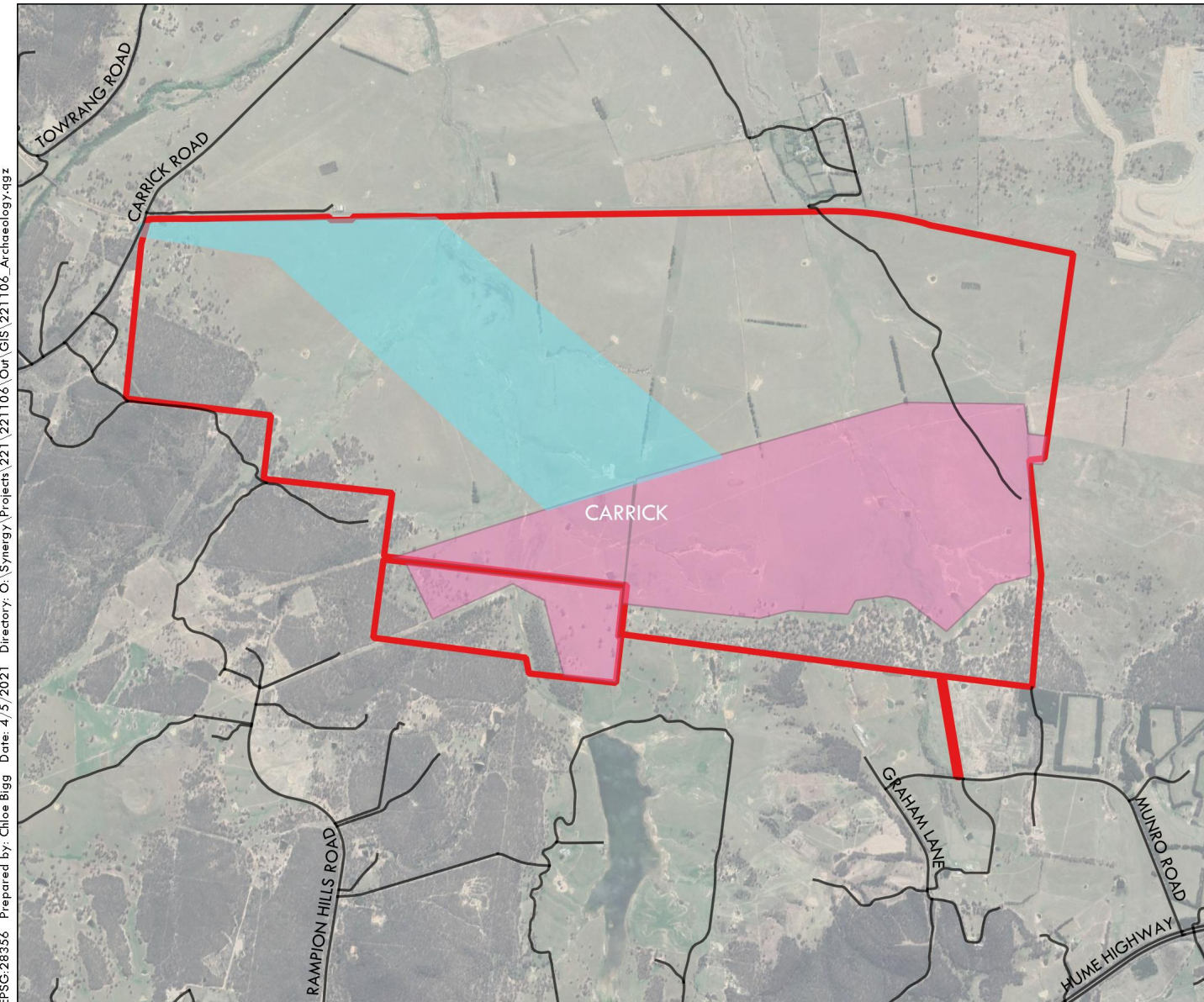
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TERRAIN SOLAR

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Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Gundungurra Aboriginal Heritage Association Inc.
PO Box 31
LAWSON NSW 2783

Dear Sharyn Halls

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


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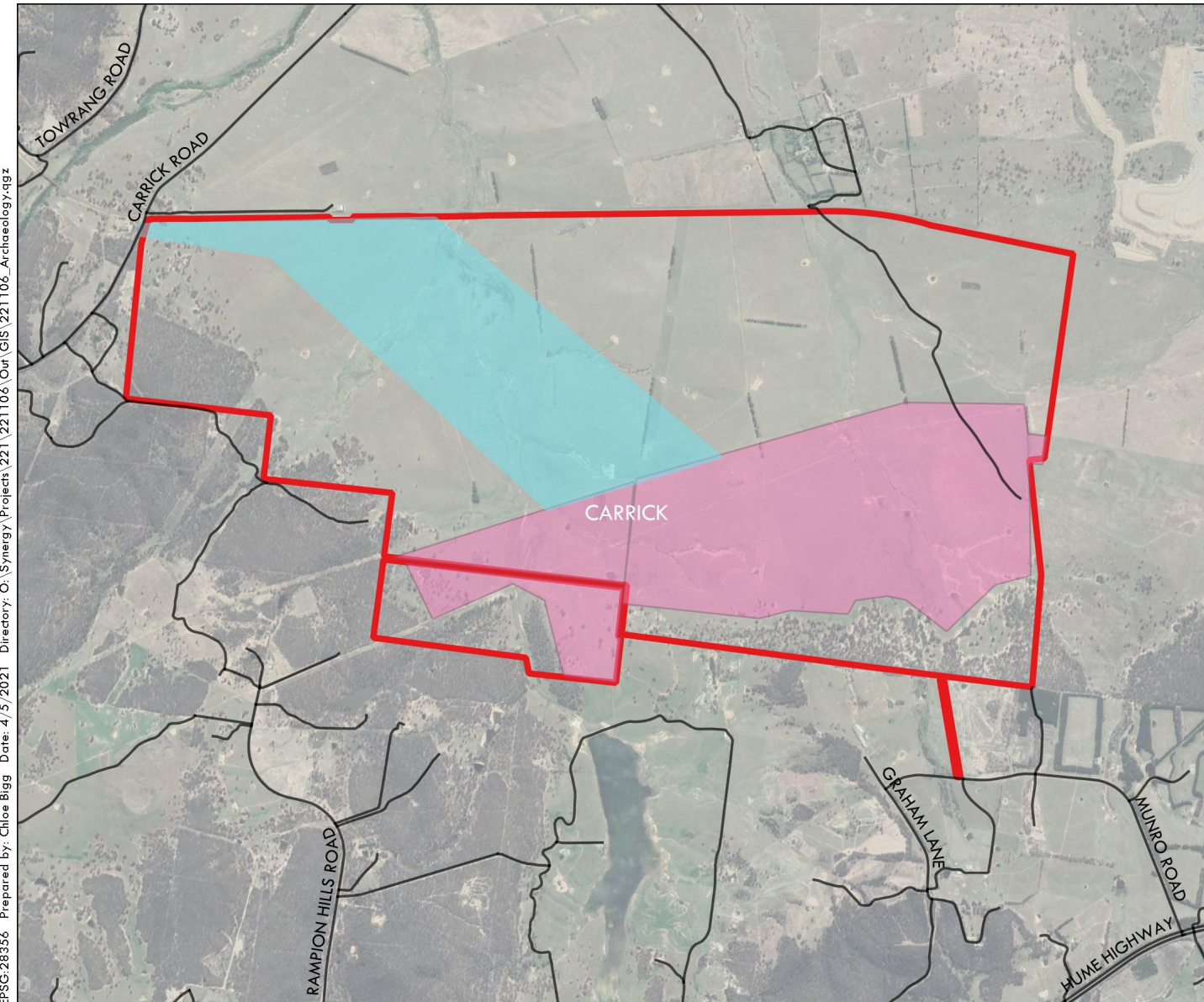
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Source: Google Satellite

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18 May 2021

Ngunawal Heritage Aboriginal Corporation
245 Ash Road
PRESTONS NSW 2170

Via email: ngunawalhac@gmail.com

Dear Dorothy Carroll

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


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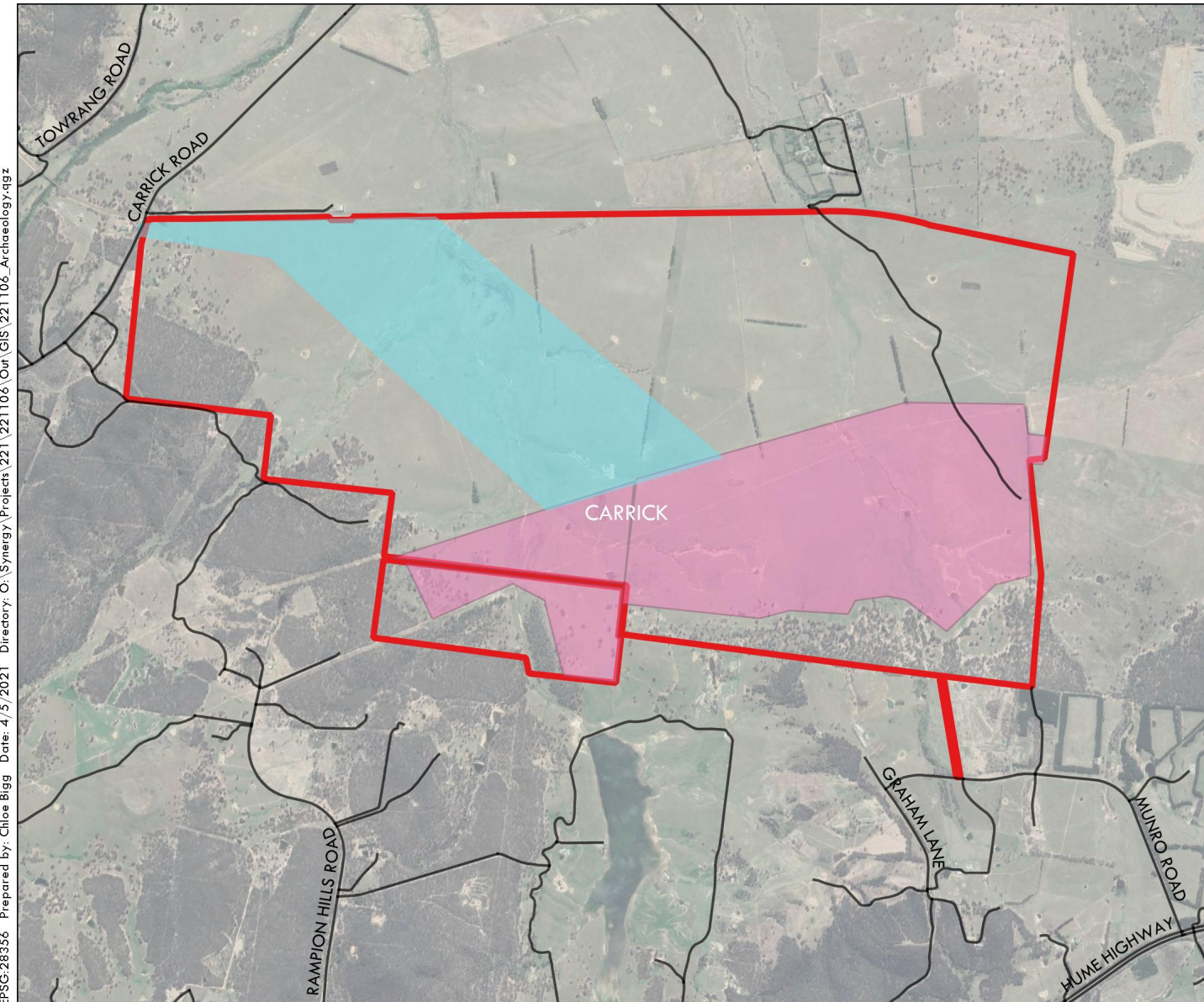
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18 May 2021

Konanggo Aboriginal Cultural Heritage Services
2/42 Crawford Road
BRIGHTON LE SANDS NSW 2216

Via email: konanggo_consultancy@hotmail.com

Dear Robert Young

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
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


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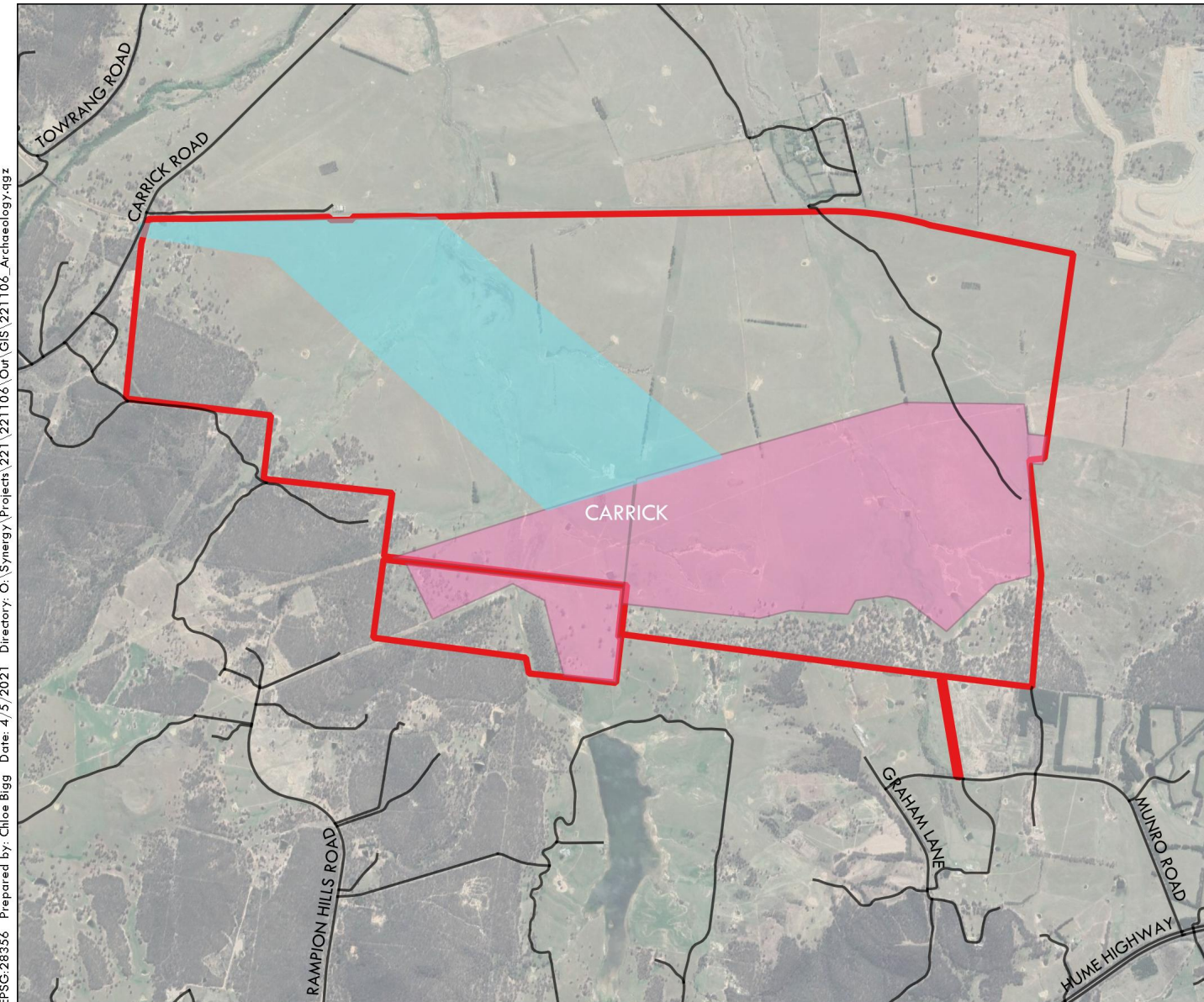
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Source: Google Satellite

Latisha Ryall

From: robert young <konanggo_consultancy@hotmail.com>
Sent: Friday, 21 May 2021 12:32 PM
To: Latisha Ryall; Bobyoung72@hotmail.com
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,

Hope your well and thank you for the invite and email

I would like to register my expression of interest as a Ngunawal traditional owner descendant, I have cultural links and cultural knowledge to this Country through my Mothers/Father's family from Yass and would like to participate to conduct the Aboriginal Cultural Heritage Assessment for the construction of the Marulan Solar Farm and have cultural knowledge of this area

Any questions dont hesitate to contact me via email or my mobile

Awaiting your reply

Robert Young
Principal Consultant
Konanggo Aboriginal Cultural Heritage Services
2/42 Crawford Road, Brighton Le Sands 2216 NSW
Email: konanggo_consultancy@hotmail.com
Phone: 0450-497-270

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 19 May 2021 8:49 AM
To: konanggo_consultancy@hotmail.com <konanggo_consultancy@hotmail.com>
Subject: Marulan Solar Farm_4.1.3 Registration of Interest

18 May 2021

Konanggo Aboriginal Cultural Heritage Services
2/42 Crawford Road
BRIGHTON LE SANDS NSW 2216

Via email: konanggo_consultancy@hotmail.com

Dear Robert Young

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Yurwang Gundana Consultancy Cultural Heritage Services.
PO Box 5628
SOUTH WINDSOR NSW 2756

Via email: ngunawal56@outlook.com

Dear Dean Bell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

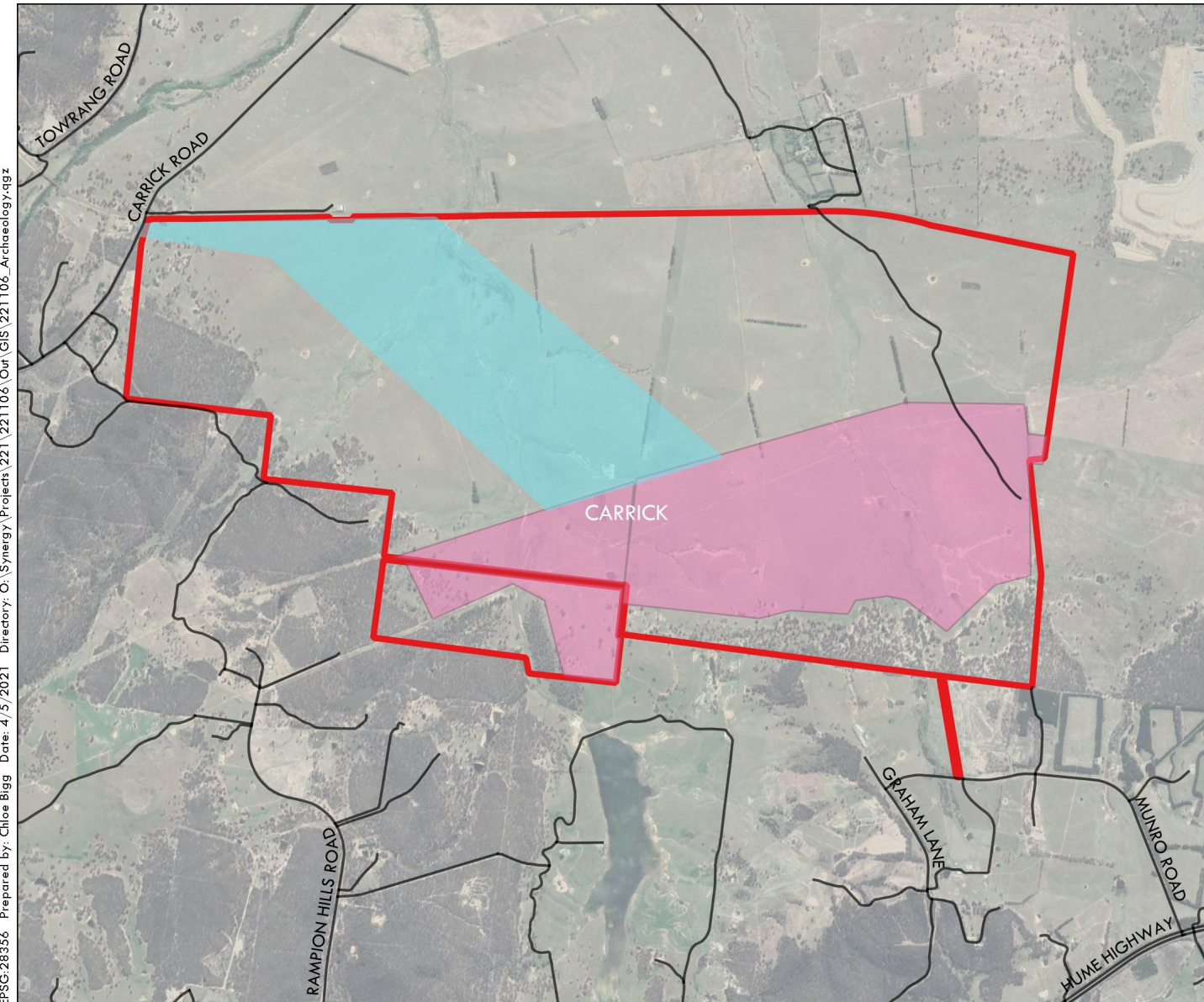
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Source: Google Satellite

Latisha Ryall

From: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Sent: Wednesday, 26 May 2021 5:44 PM
To: Latisha Ryall
Subject: Marulan solar farm
Attachments: registration letter- Marulan Solar Farm.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Get [Outlook for Android](#)

Yurwang Gundana Cultural Heritage Services

ABN: 20741884763

Address of business: 11 Berger Road South Windsor NSW 2756

MOBILE: 0499020045

Email: Yurwang.Gundana.C.H.S@oulook.com

19th of May 2020

RE: MARULAN SOLAR FARM PROPOSED DEVELOPMENT –

SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED PARTIES

Dear Tom in reference to above consultation, I wish to register as a Registered Aboriginal Party (RAP)

Thanking you

Dean Bell

Consultant

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

King Brown Tribal Group
12 Pleasance Place
BELCONNEN ACT 2617

Via email: tina.kingbrown@gmail.com

Dear Tina Brown

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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Email: tom@terrainsolar.com
Phone: 0400079641

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Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

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If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





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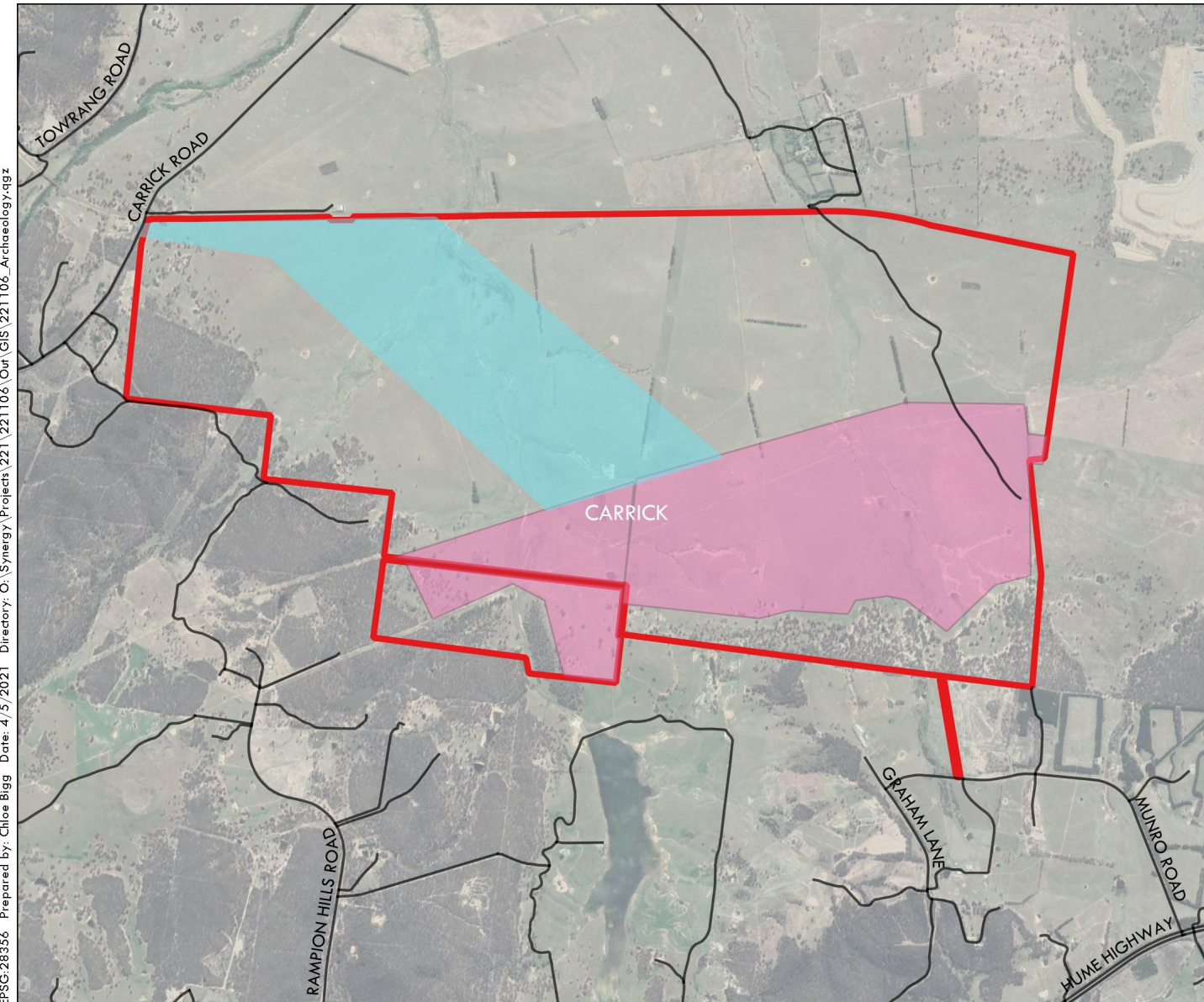
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



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Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Gunjeewong Cultural Heritage Aboriginal Corporation
1 Bellevue Place
PORTLAND NSW 2846

Dear Cherie Carroll Turrise

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Yours sincerely



LATISHA RYALL
Archaeologist





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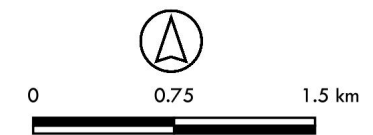
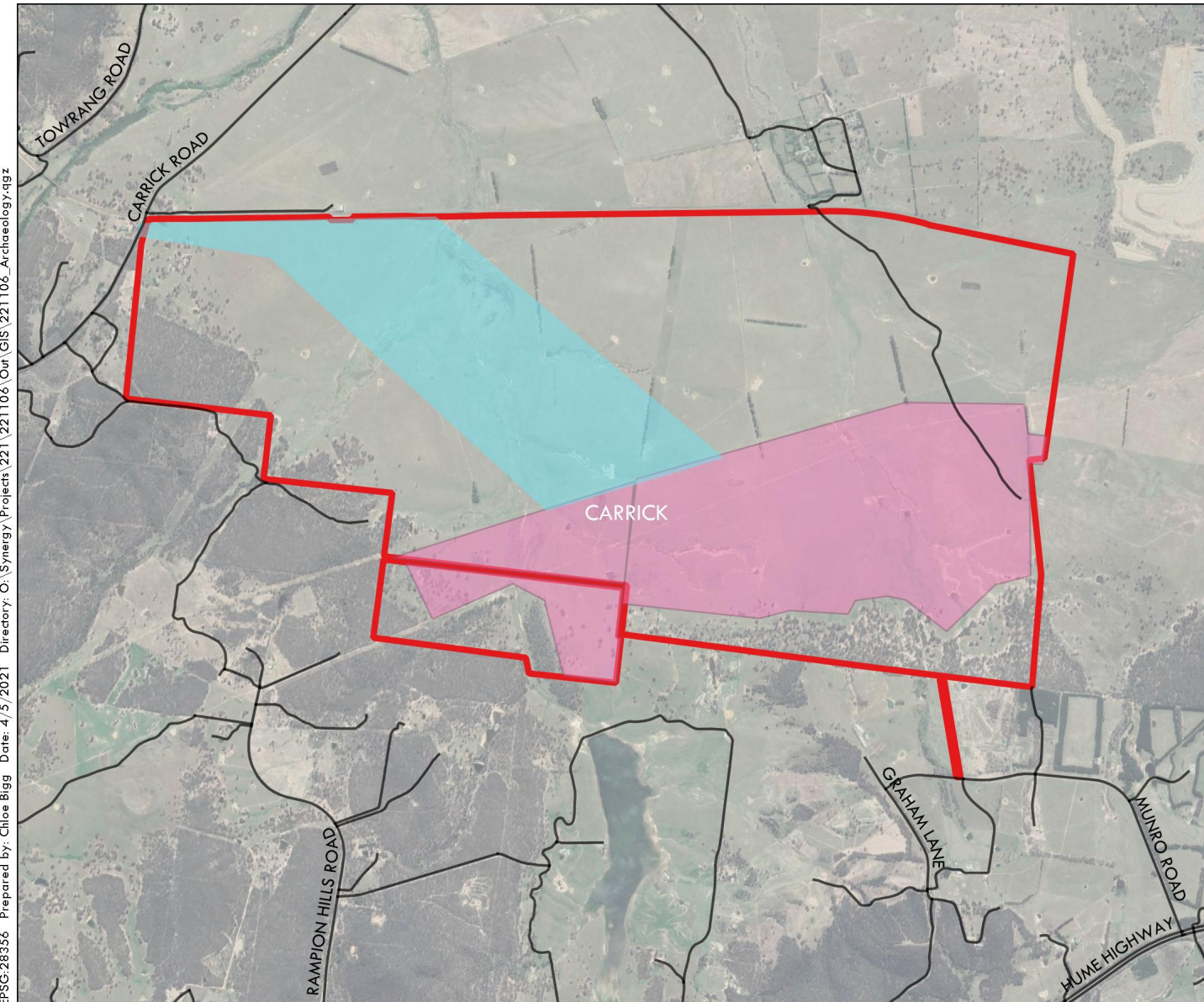
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

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-  Host Lot
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Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Yukkumbruk
14 Chipperfield Circuit
GORDON ACT 2906

Via email: canberra.knockout@yahoo.com.au

Dear Serena Williams

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Archaeologist





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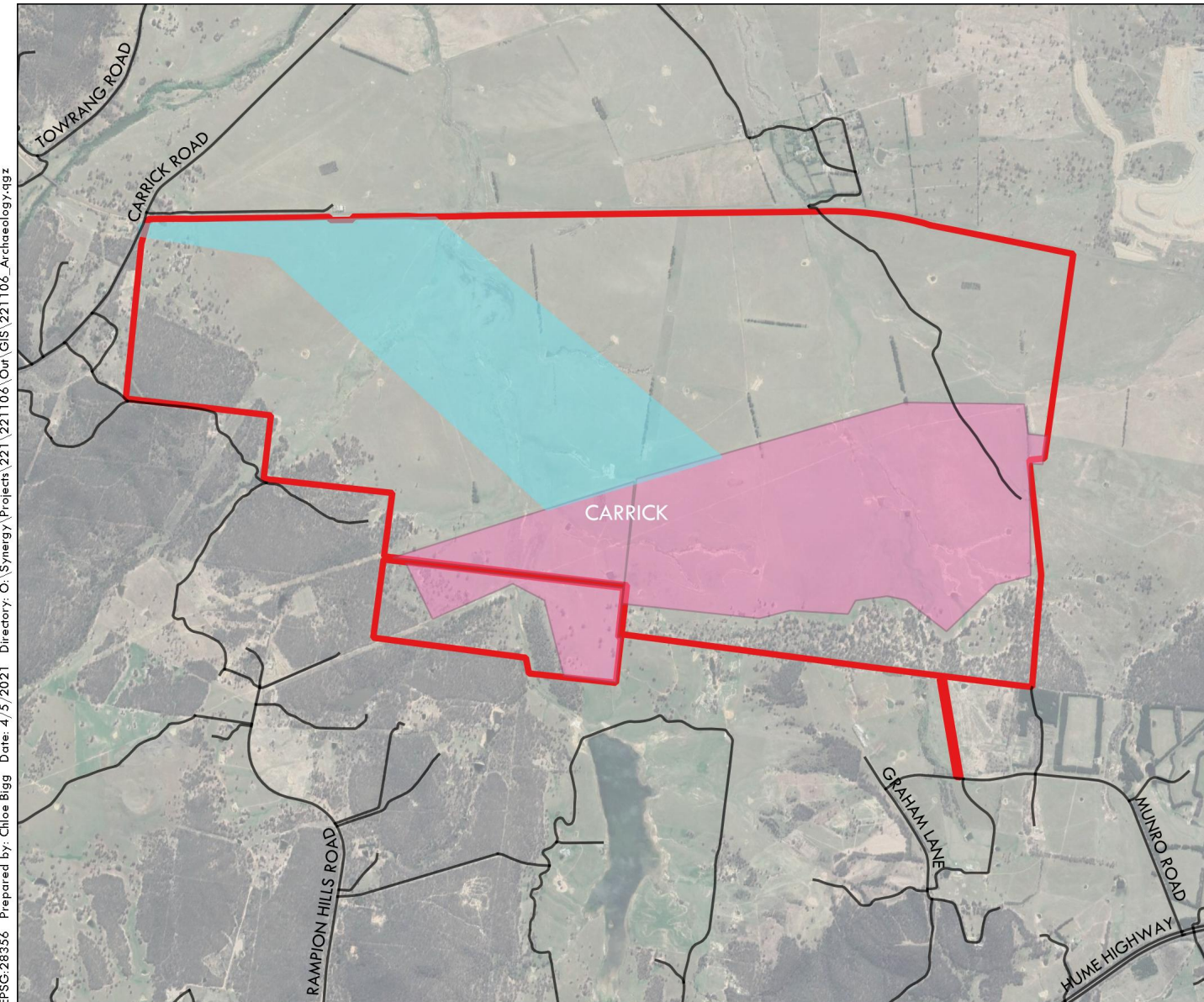
MARULAN SOLAR FARM

TERRAIN SOLAR

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Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Corroboree Aboriginal Corporation
PO Box 3340
ROUSE HILL NSW 2155

Via email: corroboreecorp@bigpond.com

Dear Marilyn Carroll- Johnson

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Archaeologist





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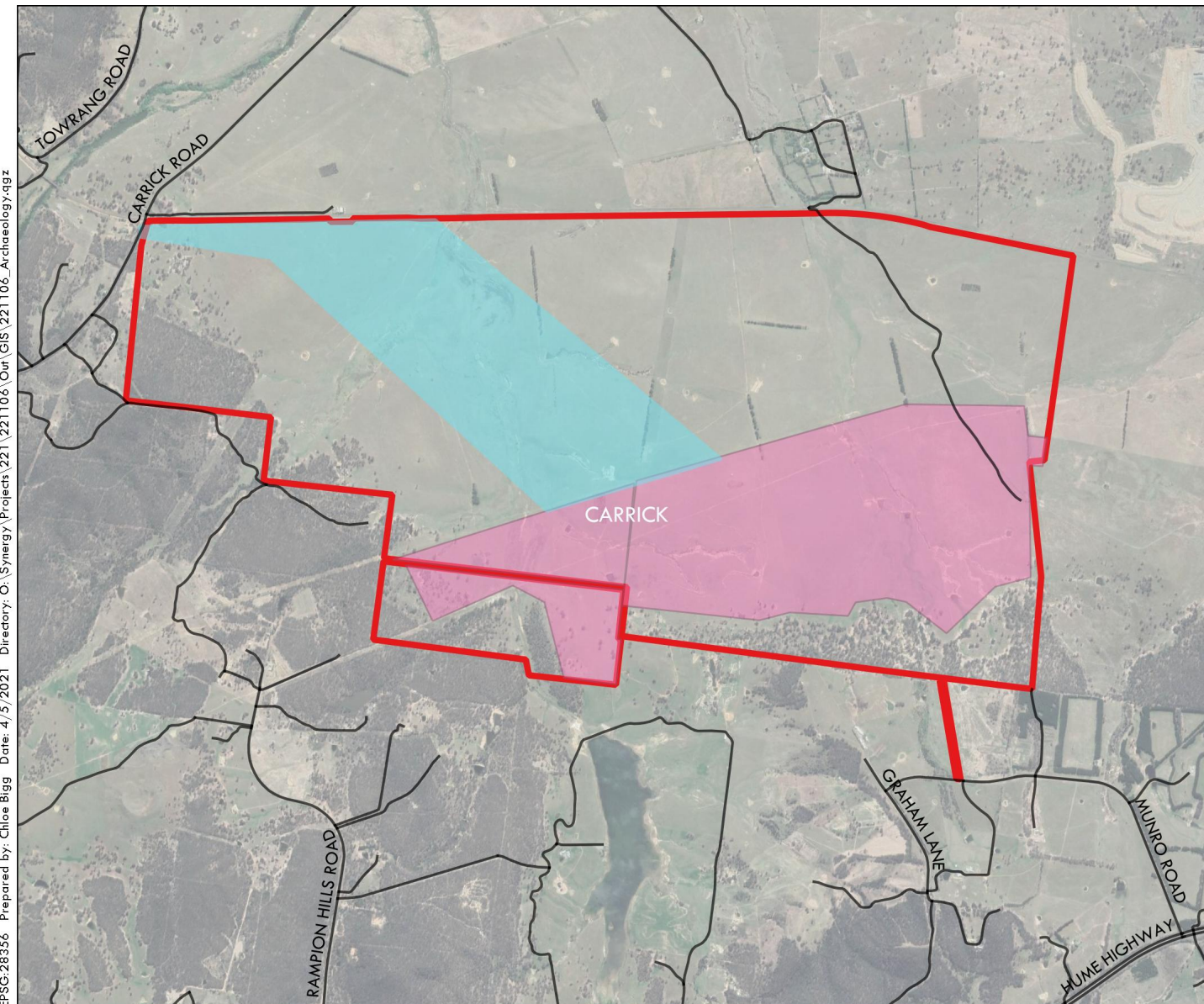
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Source: Google Satellite

Latisha Ryall

From: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
Sent: Thursday, 27 May 2021 12:40 PM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Latisha

Please register Corroboree Aboriginal Corporation. My dad, grandparents, great grandparents and other family members have lived in the area and family currently reside in the areas and surrounding areas. We are registering in a full capacity. We are aboriginal people who are culturally aware. We have the necessary ability, awareness, experience, skills, insight and the knowledge to identify artefacts on field work. And as Aboriginal People we connect thru the land, thru our ancestors and our heritage. Therefore we are able participate on all levels. We have worked with many archaeologists across a broad landscape. We have consulted with your company on previous projects. We have all the relevant insurances and safety gear. We are all fit and adapt to a vast landscape.

Contact is preferred via email: corroboreecorp@bigpond.com. The contact number, email and contact person is also listed in the signature.

Please do not disclose any of our details to LALC nor publish our correspondence for LALC to peruse. Please only note our corporation details i.e. our name and only for registration purposes. As noted our details are not to be passed on/disclosed to LALC. We understand your need for confirmation of our corporations name on your lists for registered stakeholders, in that we have responded for inclusion, to participate on all levels. The use of our name as registered party, is fine, however non-disclosure of our actual correspondence, please. Just our name and contact details as registered stakeholders for your records and proponents. Thanks.

Kind regards

Marilyn Carroll-Johnson

Director

Corroboree Aboriginal Corporation

Mob: [0415911159](tel:0415911159)

Ph: [0288244324](tel:0288244324)

E: corroboreecorp@bigpond.com

Address: PO Box 3340

ROUSE HILL NSW 2155

On 19 May 2021, at 8:49 am, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Corroboree Aboriginal Corporation

PO Box 3340

ROUSE HILL NSW 2155

Via email: corroboreecorp@bigpond.com

Dear Marilyn Carroll- Johnson

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Murri Bidgee Mullangari Aboriginal Corporation
PO Box 3035
ROUSE HILL NSW 2155

Via email: murrabidgeemullangari@yahoo.com.au

Dear Darlene Johnson

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

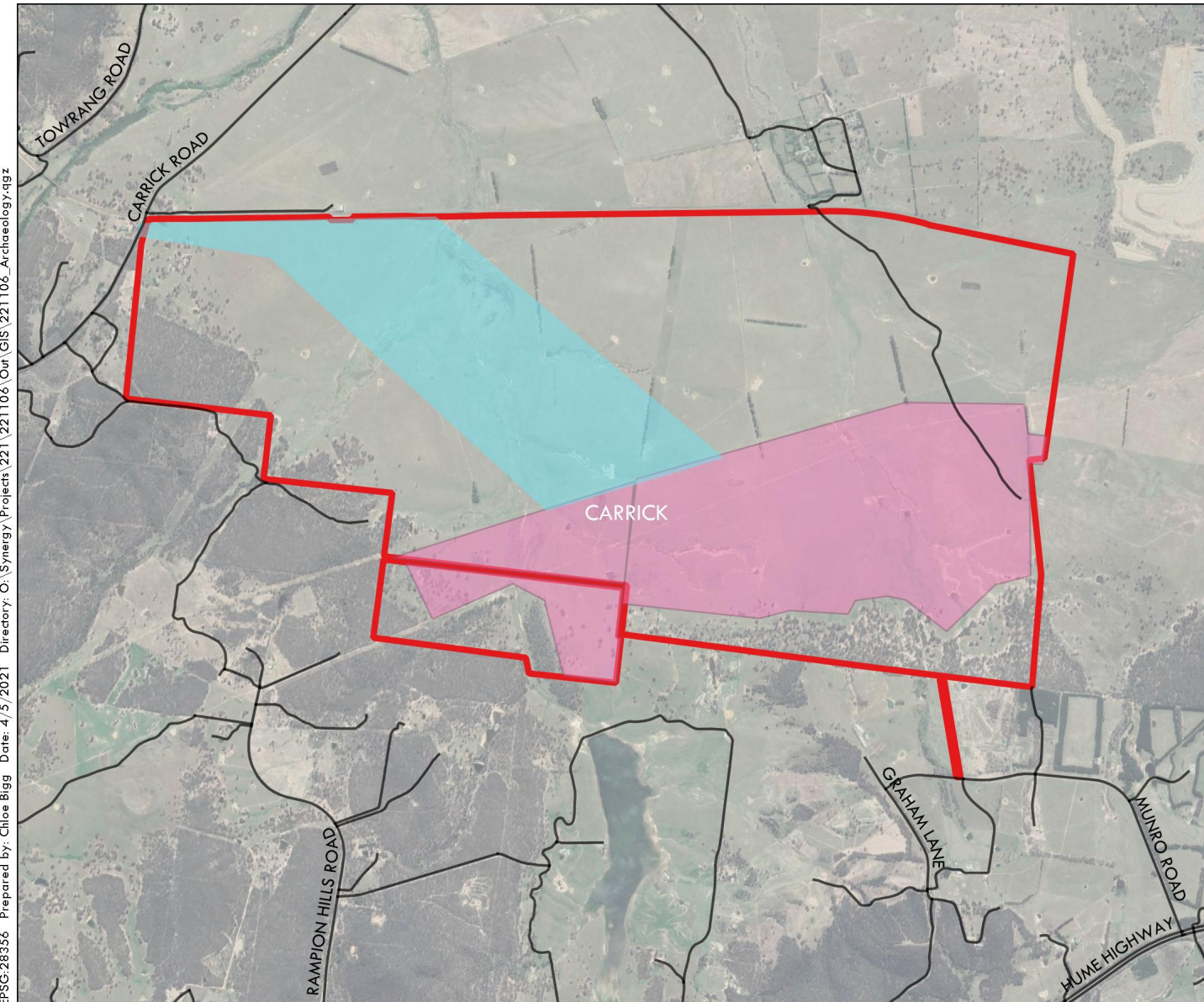
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Latisha Ryall

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Wednesday, 19 May 2021 11:52 AM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,
Please register our company for the above project, we hold cultural knowledge in the project area, our family are from the area and some still remain in the project area. Our heritage is Ngunnawal, our great grandmother was Queen Lucy Carroll and King Ned Carroll.
Kind regards
Ryan Johnson
0475565517

On Wednesday, 19 May 2021, 08:50:07 am AEST, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Murri Bidgee Mullangari Aboriginal Corporation

PO Box 3035

ROUSE HILL NSW 2155

Via email: murrabidgeemullangari@yahoo.com.au

Dear Darlene Johnson

MArulan solar farm proposed development –
section 4.1.3 invitation to register & Identification of Potential interested parties

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Nundagurri Aboriginal Corporation

Via email: Nundagurri@gmail.com

Dear Newton Carriage

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

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If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





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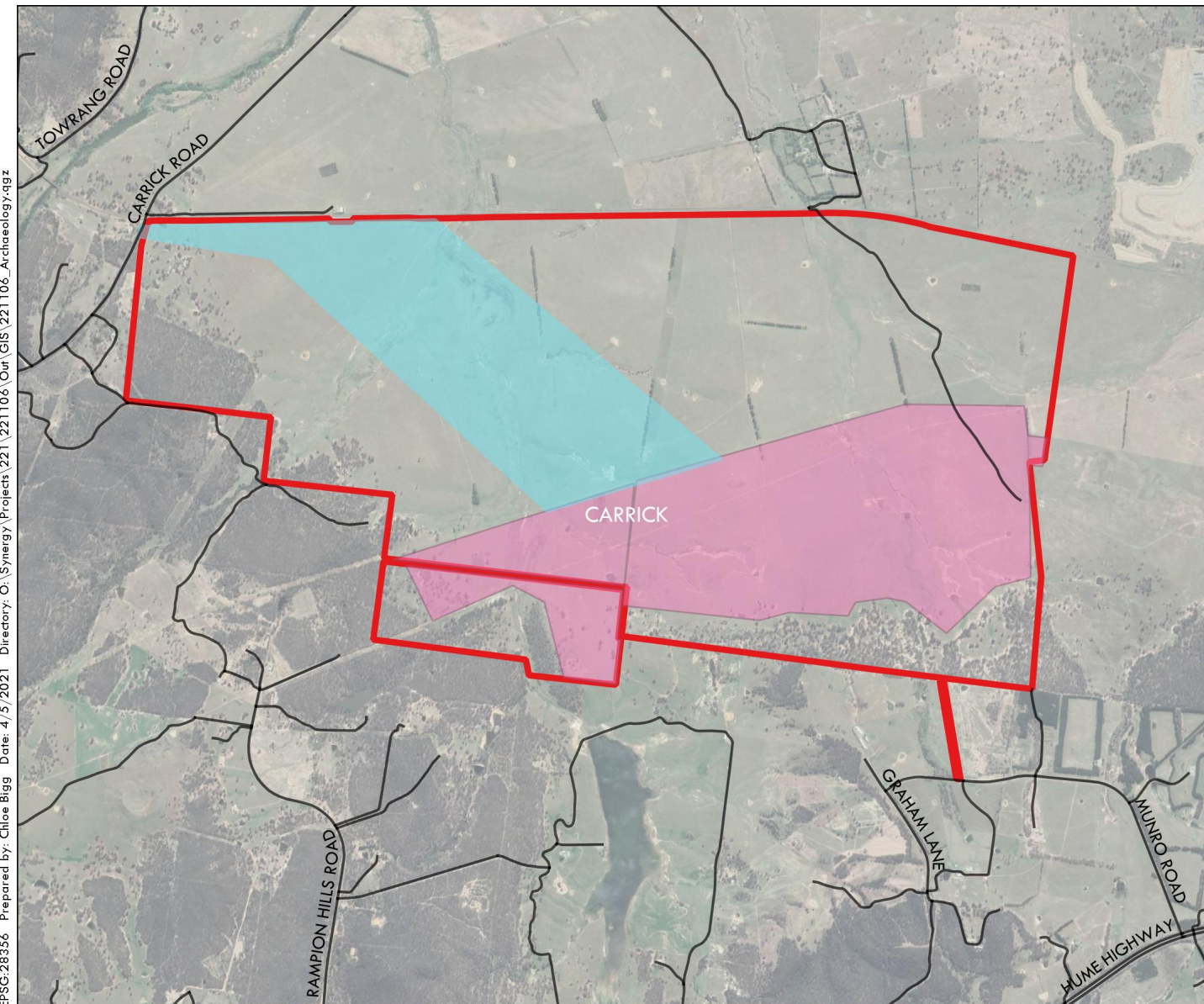
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18 May 2021

Walbunja
15 Renee Crescent
MORUYA HEADS NSW 2537

Via email: Walbunja@gmail.com

Dear Hika Te Kowhai

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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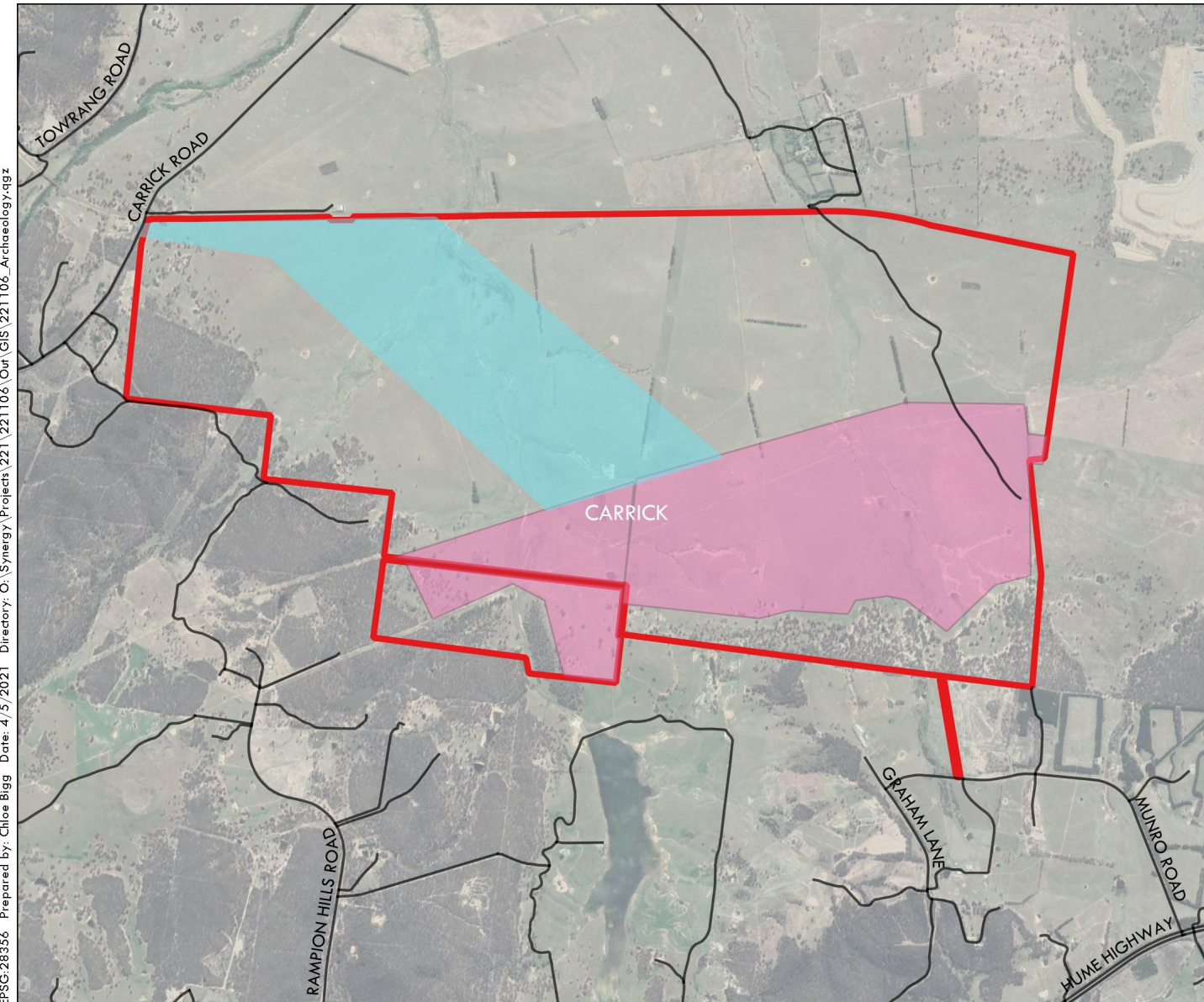
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18 May 2021

Goobah Development Pty Ltd.

Via email: goobahchts@gmail.com

Dear Basil Smith

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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LATISHA RYALL
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


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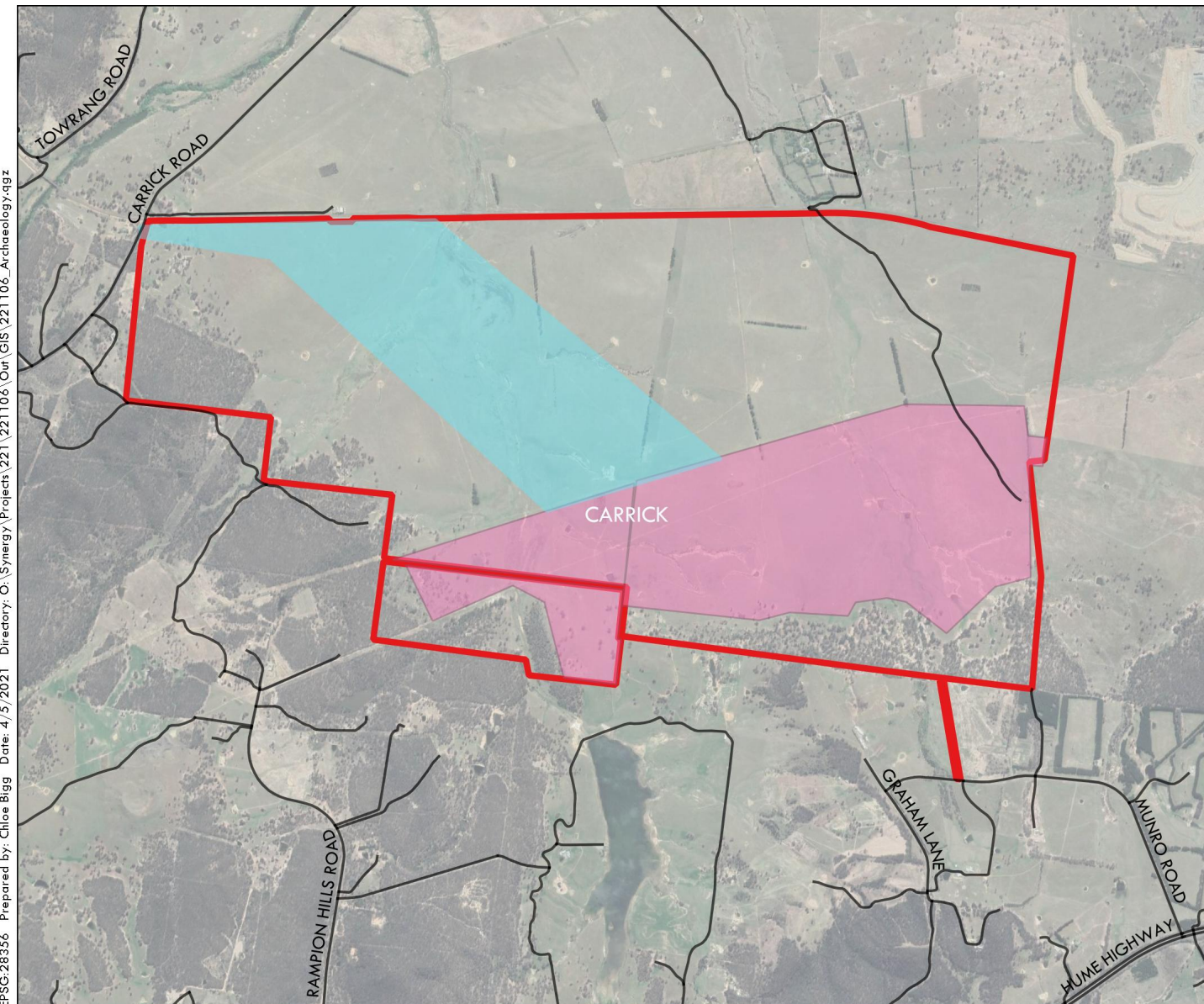
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18 May 2021

Gunyuuu

Via email: gunyuuchts@gmail.com

Dear Kylie Ann Bell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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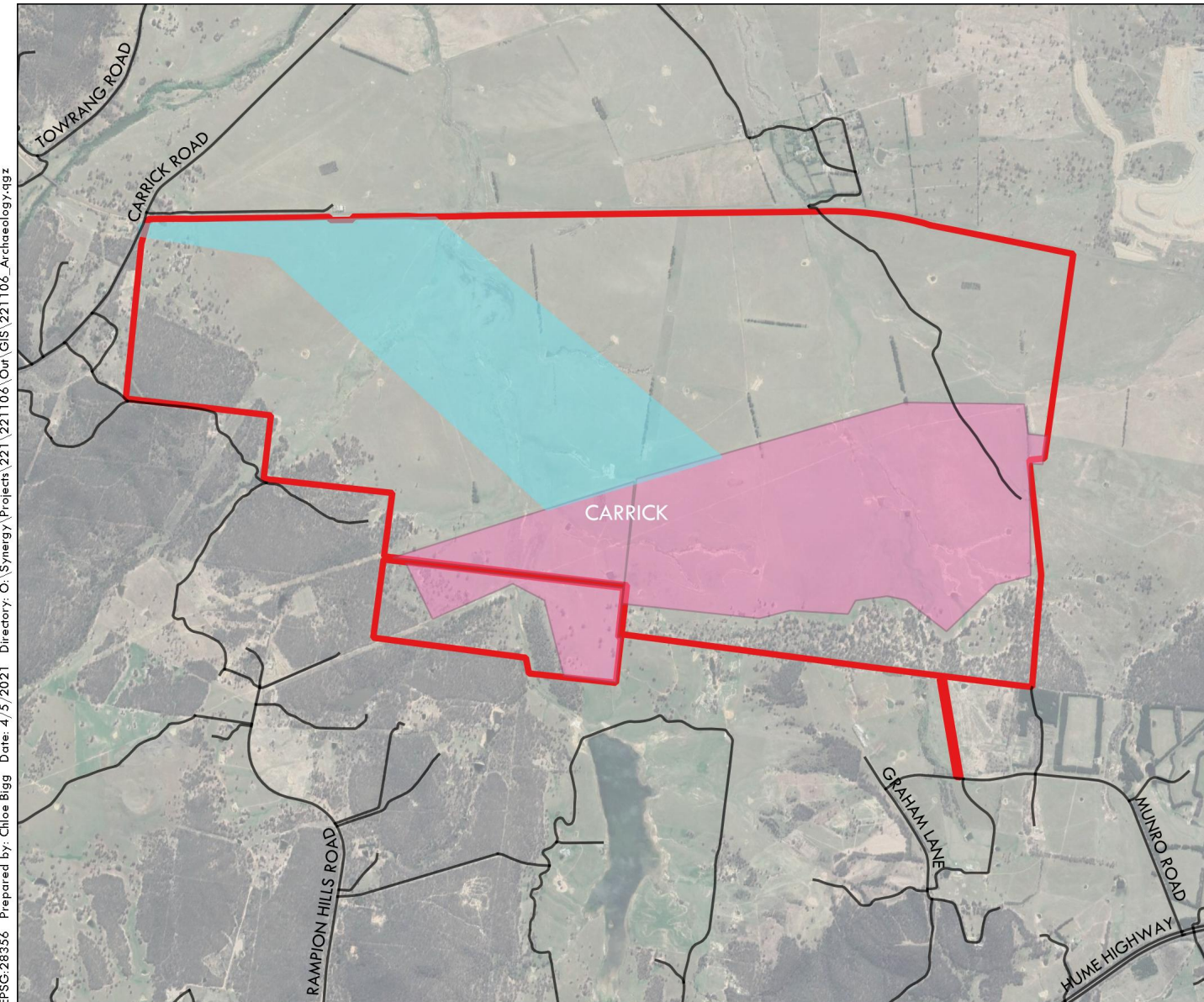
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18 May 2021

Wullung
54 Blackwood Street
GERRINGONG NSW 2534

Via email: wullunglb@gmail.com

Dear Lee-Roy Boota

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SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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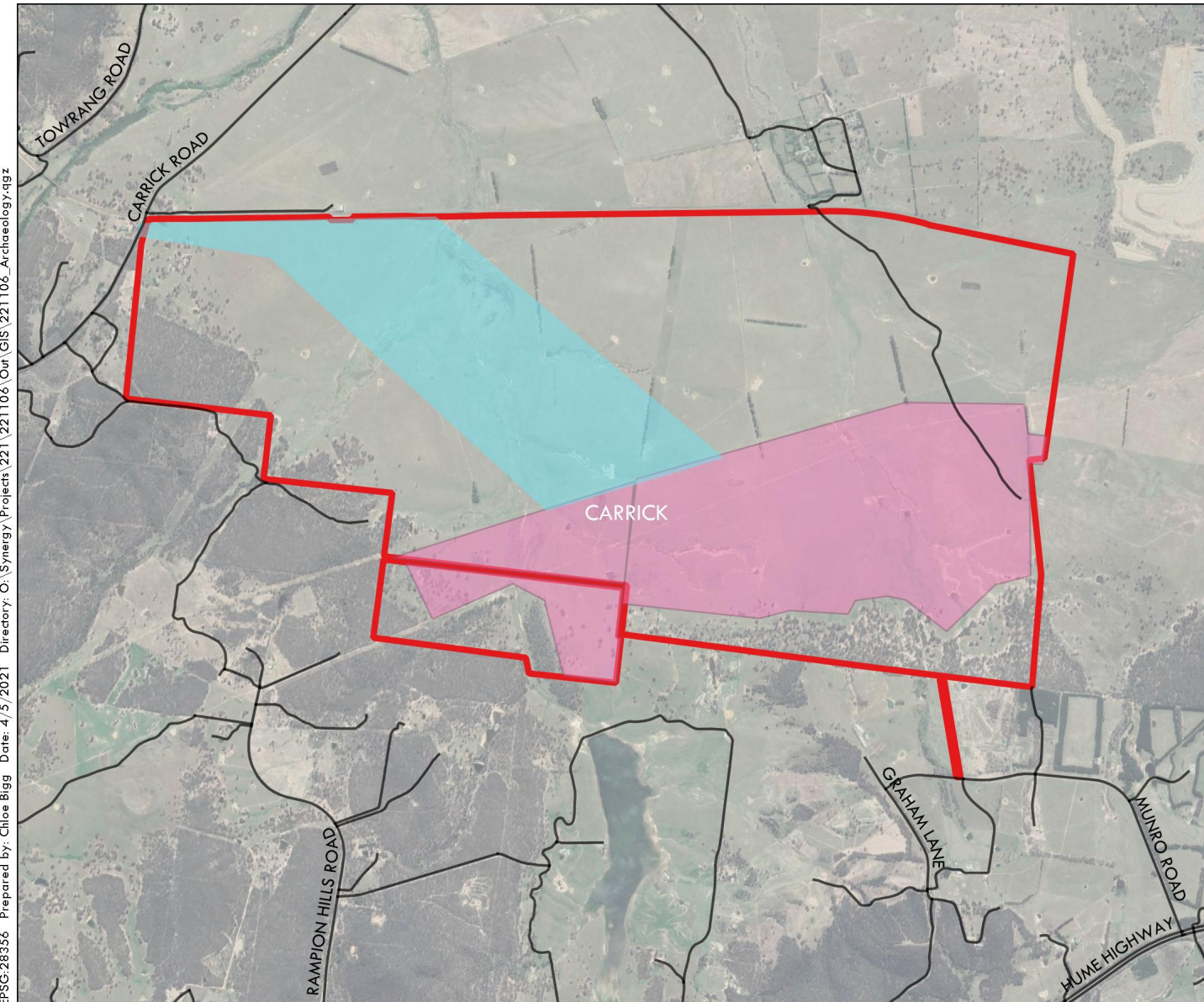
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18 May 2021

Badu
11 Jeffrey Place
MORUYA NSW 2536

Via email: baduchts@gmail.com

Dear Karia Lea Bond

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


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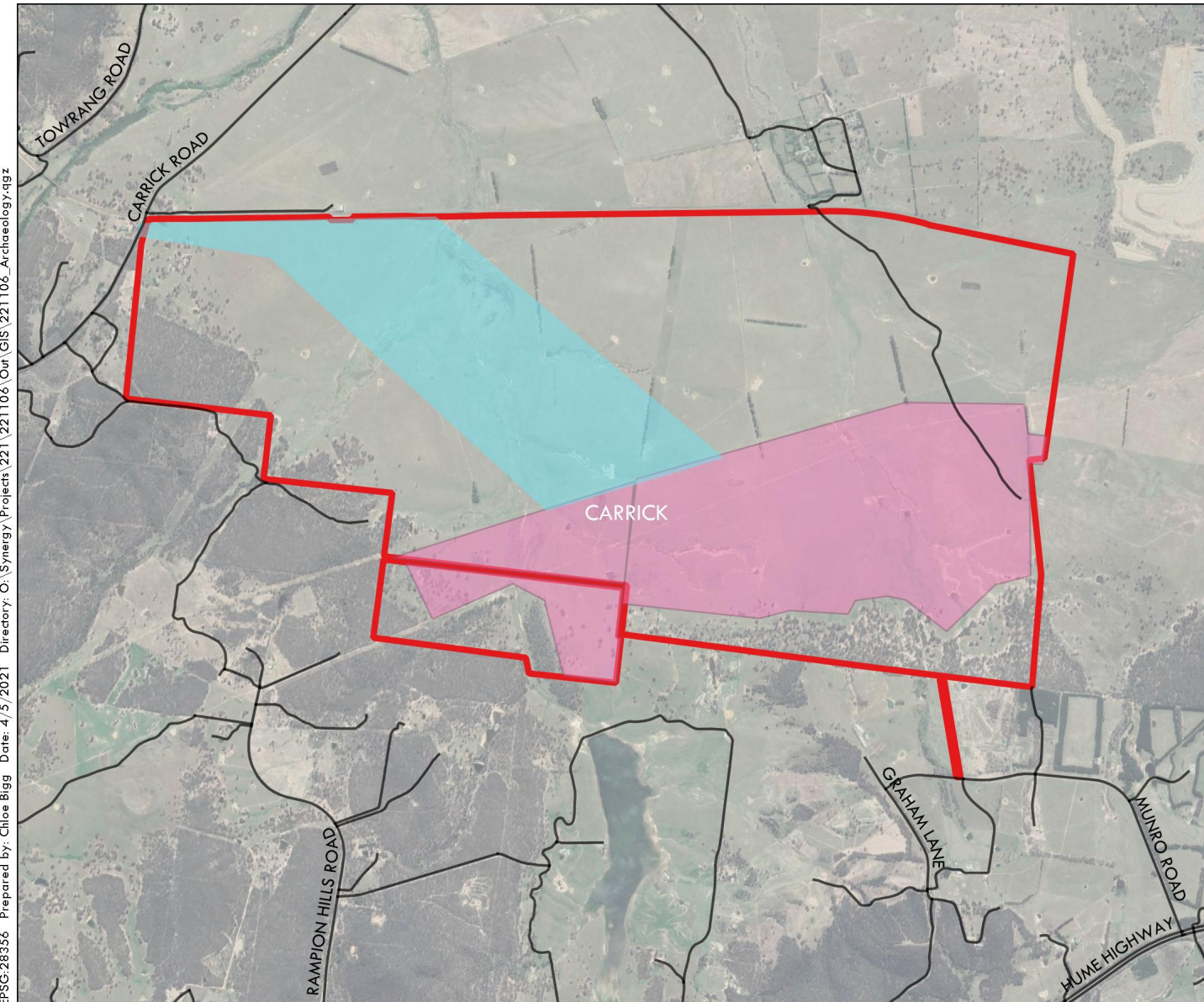
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18 May 2021

Yerramurra

Via email: yerramurra@gmail.com

Dear Robert Parsons

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Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

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Ph. 02 6393 5000
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Yours sincerely



LATISHA RYALL
Archaeologist





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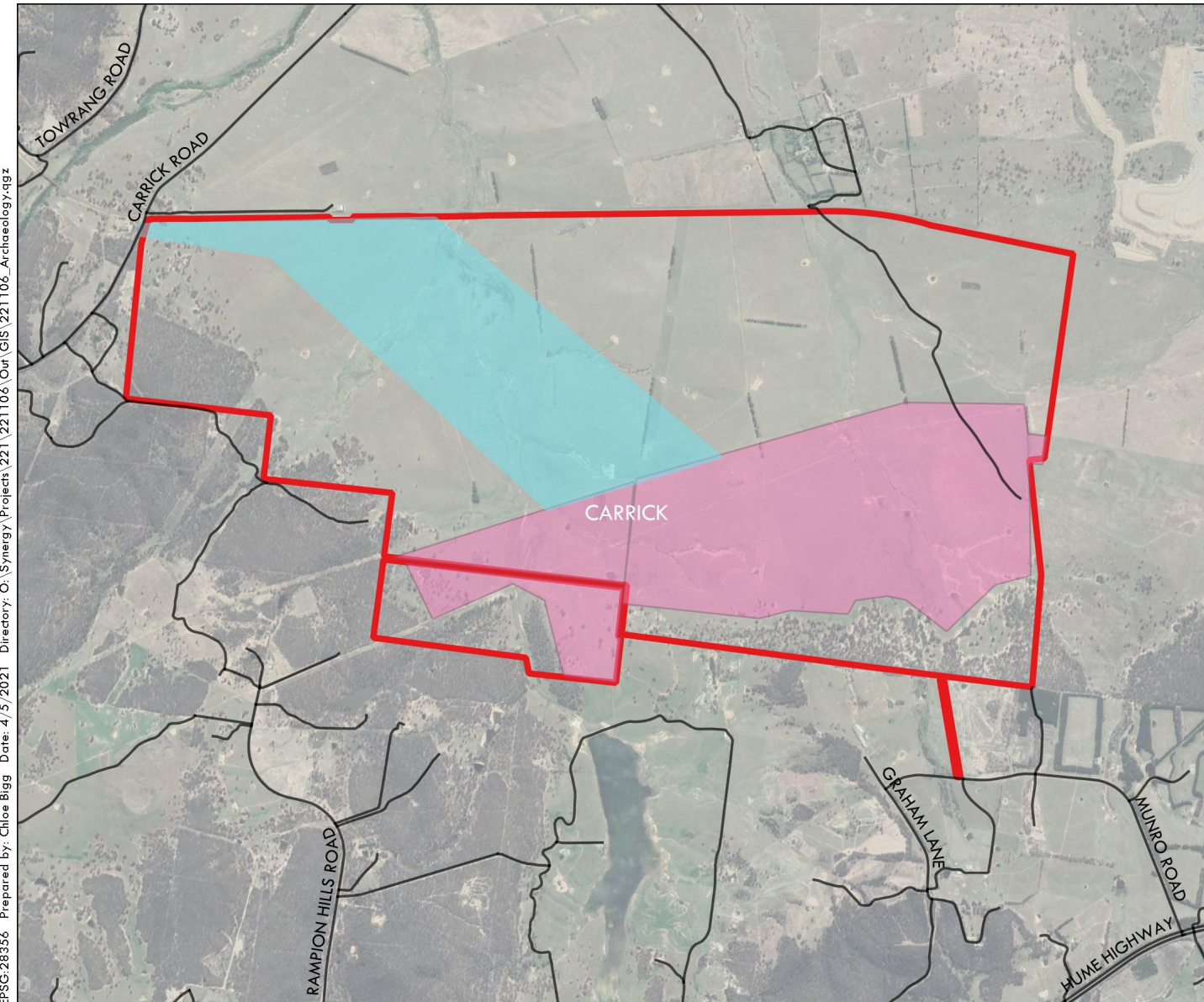
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Jerringong
2/10 Burnett Avenue
GERRINGONG NSW 2534

Via email: jerringong@gmail.com

Dear Jodie Stewart

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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


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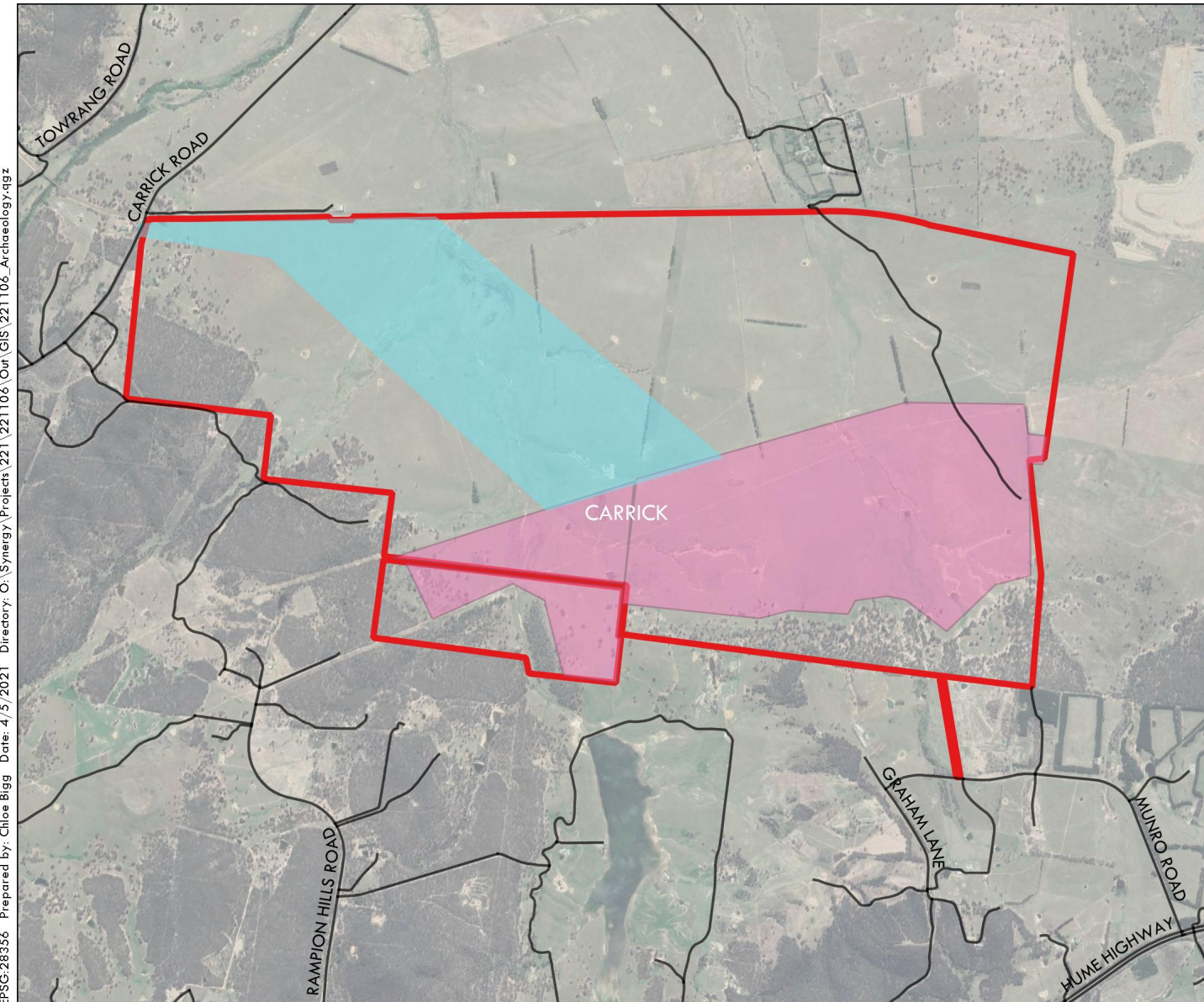
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

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EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

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18 May 2021

Merrigarn Indigenous Corporation
PO Box 246
SEVEN HILLS NSW 2146

Via email: merrigarn@hotmail.com

Dear Shaun Carroll

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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


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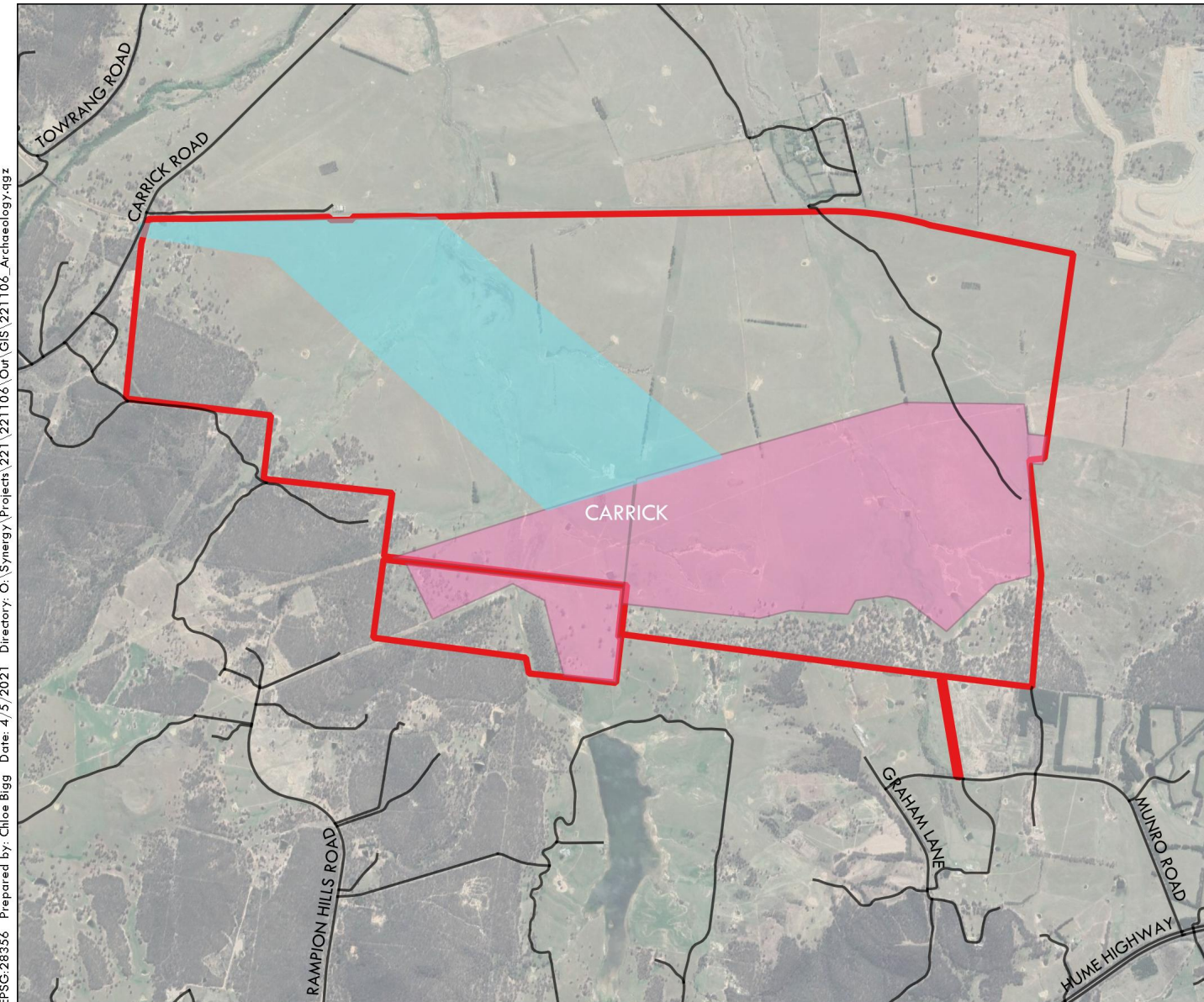
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Source: Google Satellite

Latisha Ryall

From: Shaun Carroll <Merrigarn@hotmail.com>
Sent: Wednesday, 19 May 2021 12:43 PM
To: Latisha Ryall
Subject: RE: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,
Please register our interest in the above project, our family holds the cultural knowledge relevant to identifying aboriginal objects and/or places in the project area.
Kind regards
Shaun Carroll

Sent from [Mail](#) for Windows 10

From: [Latisha Ryall](#)
Sent: Wednesday, 19 May 2021 8:50 AM
To: merrigarn@hotmail.com
Subject: Marulan Solar Farm_4.1.3 Registration of Interest

18 May 2021

Merrigarn Indigenous Corporation
PO Box 246
SEVEN HILLS NSW 2146

Via email: merrigarn@hotmail.com

Dear Shaun Carroll

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18 May 2021

Wingikara

Via email: wingikarachts@gmail.com

Dear Hayley Bell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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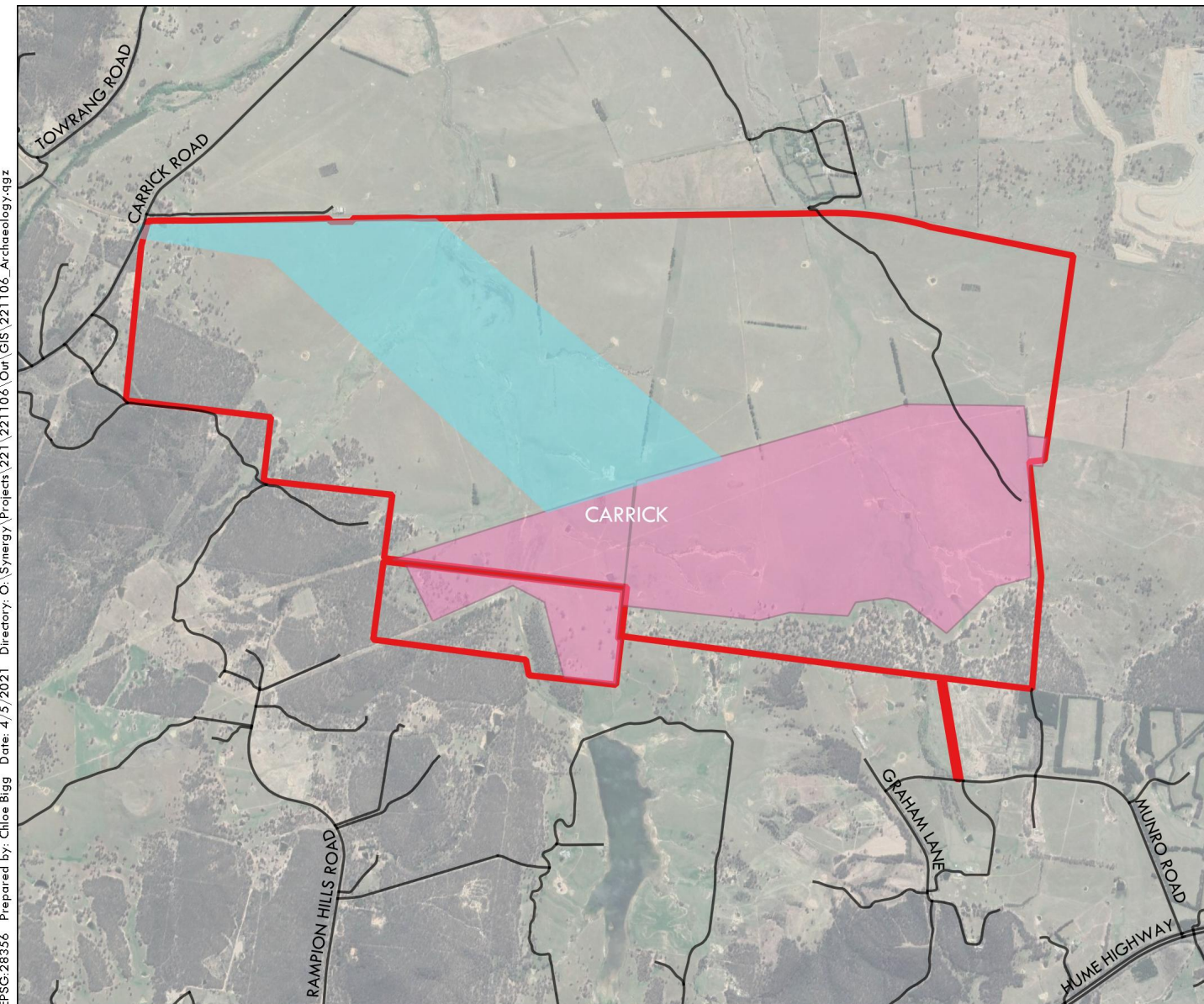
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

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18 May 2021

Bilinga

Via email: bilingachts@gmail.com

Dear Simalene Carriage

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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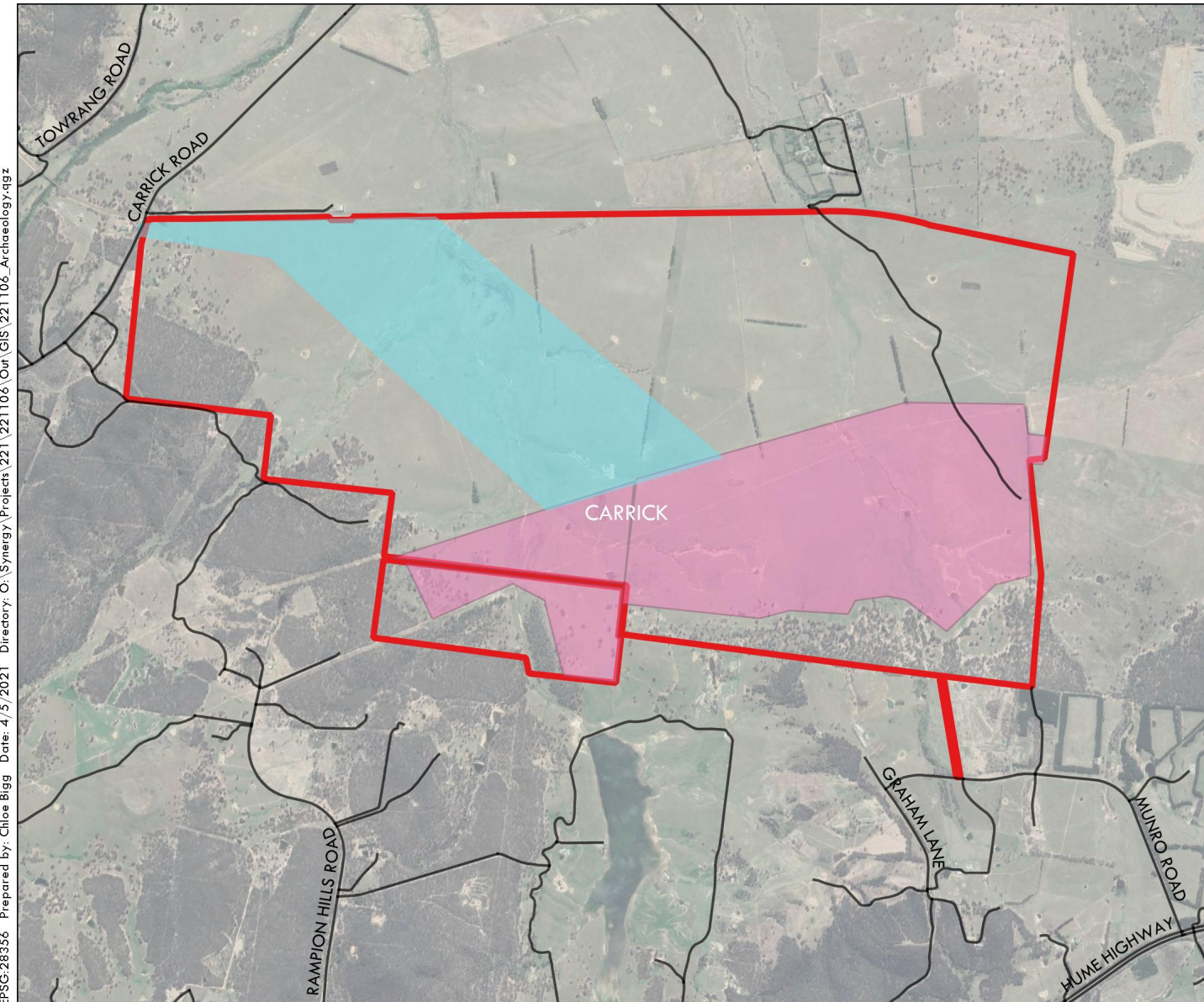
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18 May 2021

Munyunga

Via email: munyangachs@gmail.com

Dear Kayla Dawn Bell

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


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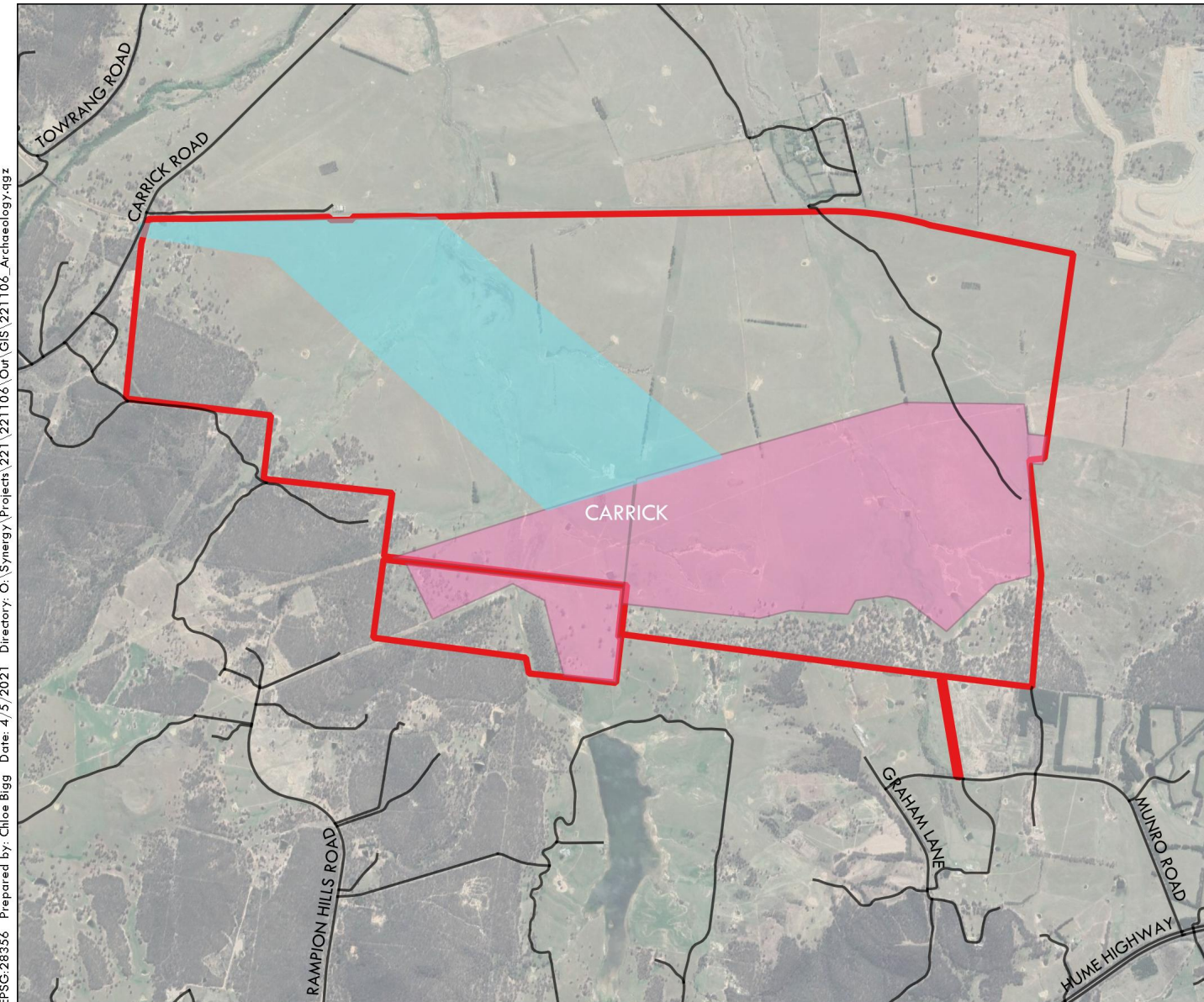
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Pemulwuy

Via email: pemulwuyd@gmail.com

Dear Pemulwuy Johnson

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


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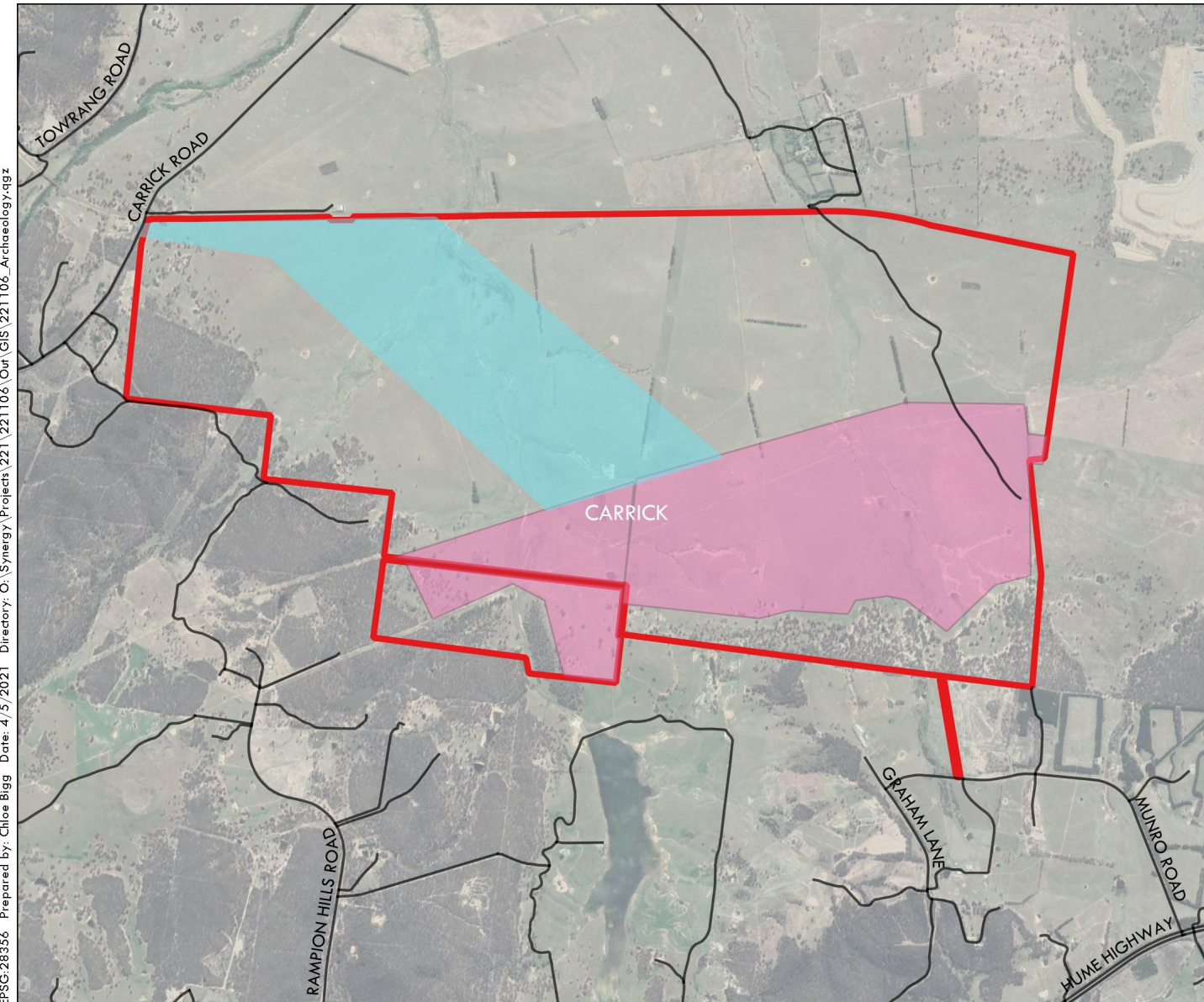
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18 May 2021

Karrial

Via email: karrialchts@gmail.com

Dear Karrial Johnson

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Email: tom@terrainsolar.com
Phone: 0400079641

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Latisha Ryall
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ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

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Yours sincerely



LATISHA RYALL
Archaeologist





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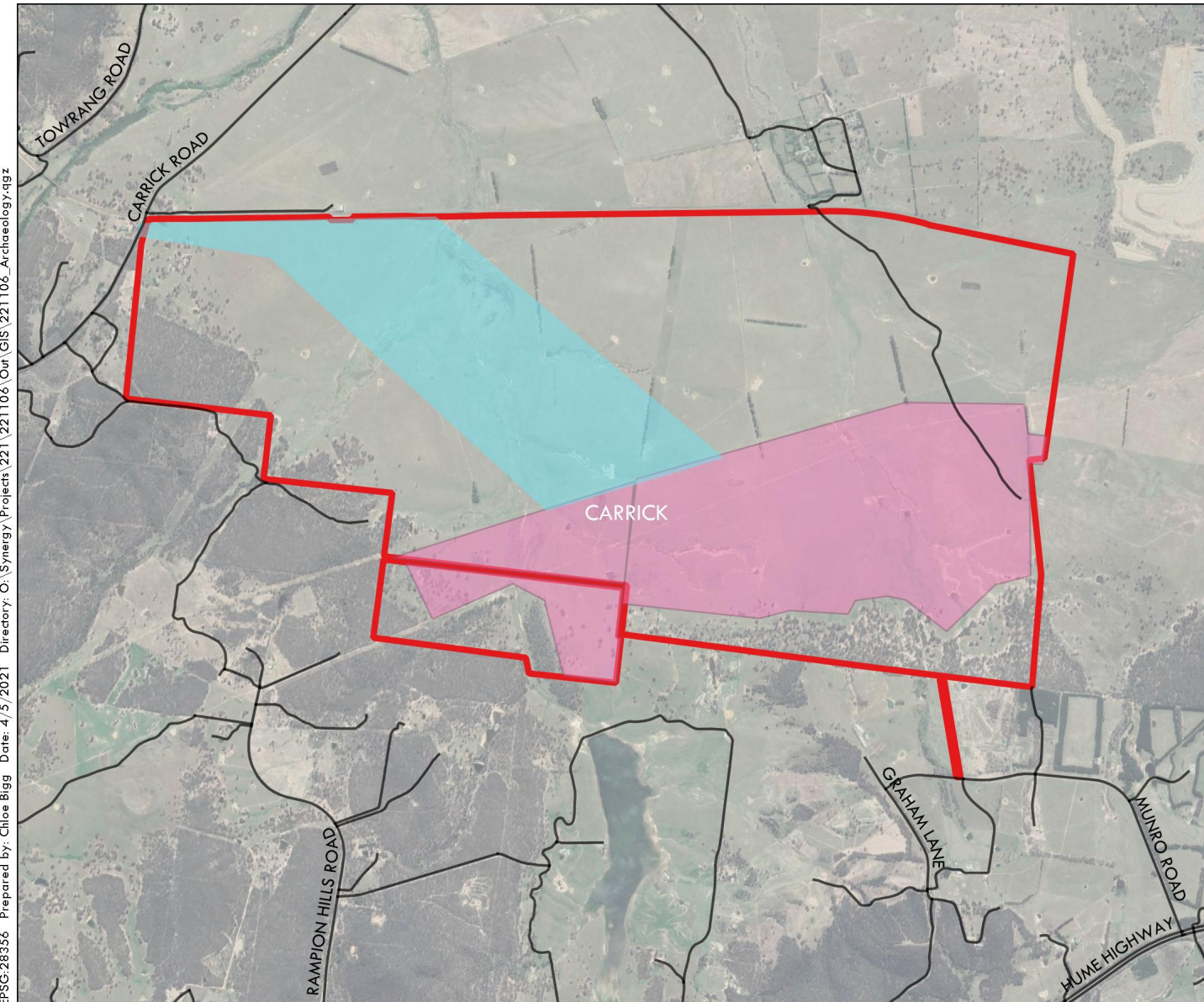
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Didge Ngunawal clan
33 Carlyle Crescent
Cambridge Gardens NSW 2746

Via email: didgengunawalclan@yahoo.com.au

Dear Lillie Carroll

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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Yours sincerely



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


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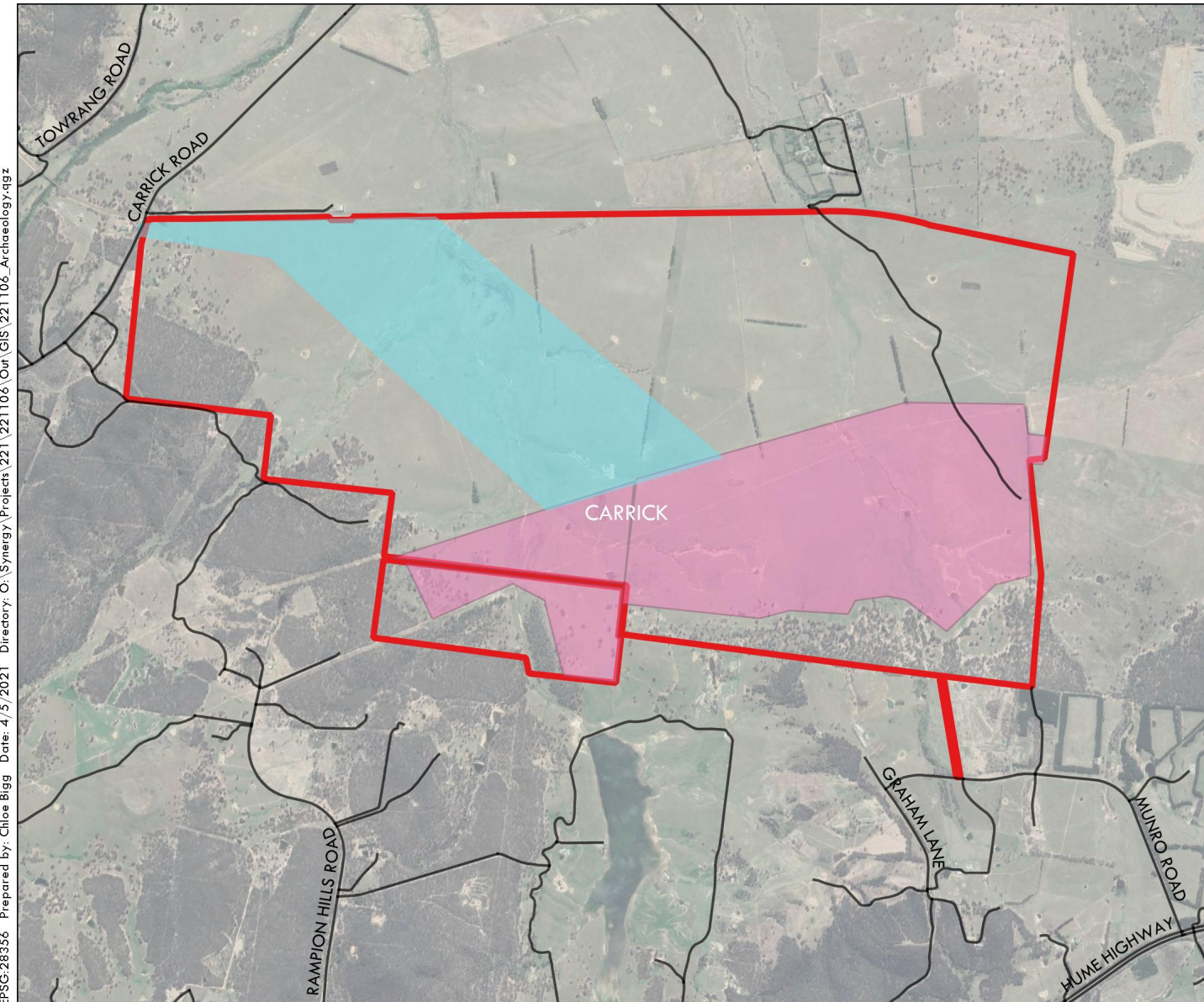
MARULAN SOLAR FARM

TERRAIN SOLAR

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Source: Google Satellite

Latisha Ryall

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Wednesday, 19 May 2021 8:57 AM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha

DNC would like to register an interest into Marulan solar farm project

Kind regards
Paul Boyd & Lilly Carroll
Directors DNC

[Sent from Yahoo Mail for iPhone](#)

On Wednesday, May 19, 2021, 8:50 am, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Didge Ngunawal clan

33 Carlyle Crescent

Cambridge Gardens NSW 2746

Via email: didgengunawalclan@yahoo.com.au

Dear Lillie Carroll

MARulan solar farm proposed development –
section 4.1.3 invitation to register & Identification of Potential interested parties

Latisha Ryall

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Thursday, 20 May 2021 4:56 PM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

The nominated contact for this project to Paul Boyd 0426 823 944, and is happy to release details to local aboriginal land council etc

[Sent from Yahoo Mail for iPhone](#)

On Wednesday, May 19, 2021, 8:56 am, lilly carroll <didgengunawalclan@yahoo.com.au> wrote:

Hi Latisha

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Directors DNC

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18 May 2021

Didge Ngunawal clan

33 Carlyle Crescent

Cambridge Gardens NSW 2746

Via email: didgengunawalclan@yahoo.com.au

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Ginninderra Aboriginal Corporation
PO BOX 3143
GROSE VALE NSW 2754

Via email: ginninderra.corp@gmail.com

Dear Krystle Carroll

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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Yours sincerely



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Archaeologist





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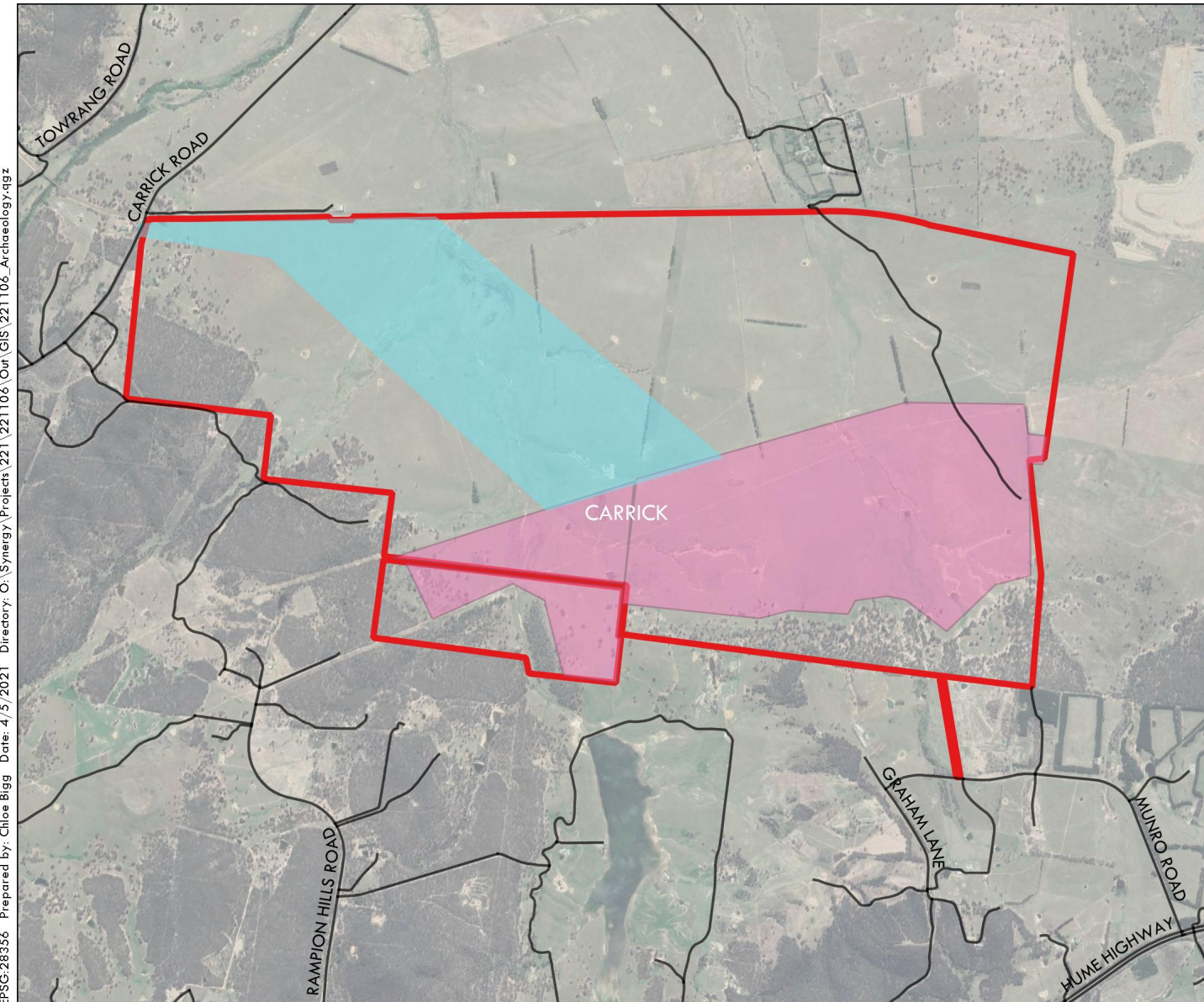
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
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Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Muragadi Heritage Indigenous Corporation
5 Hession Road
NELSON NSW 2764

Via email: muragadi@yahoo.com.au

Dear Jesse Johnson

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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


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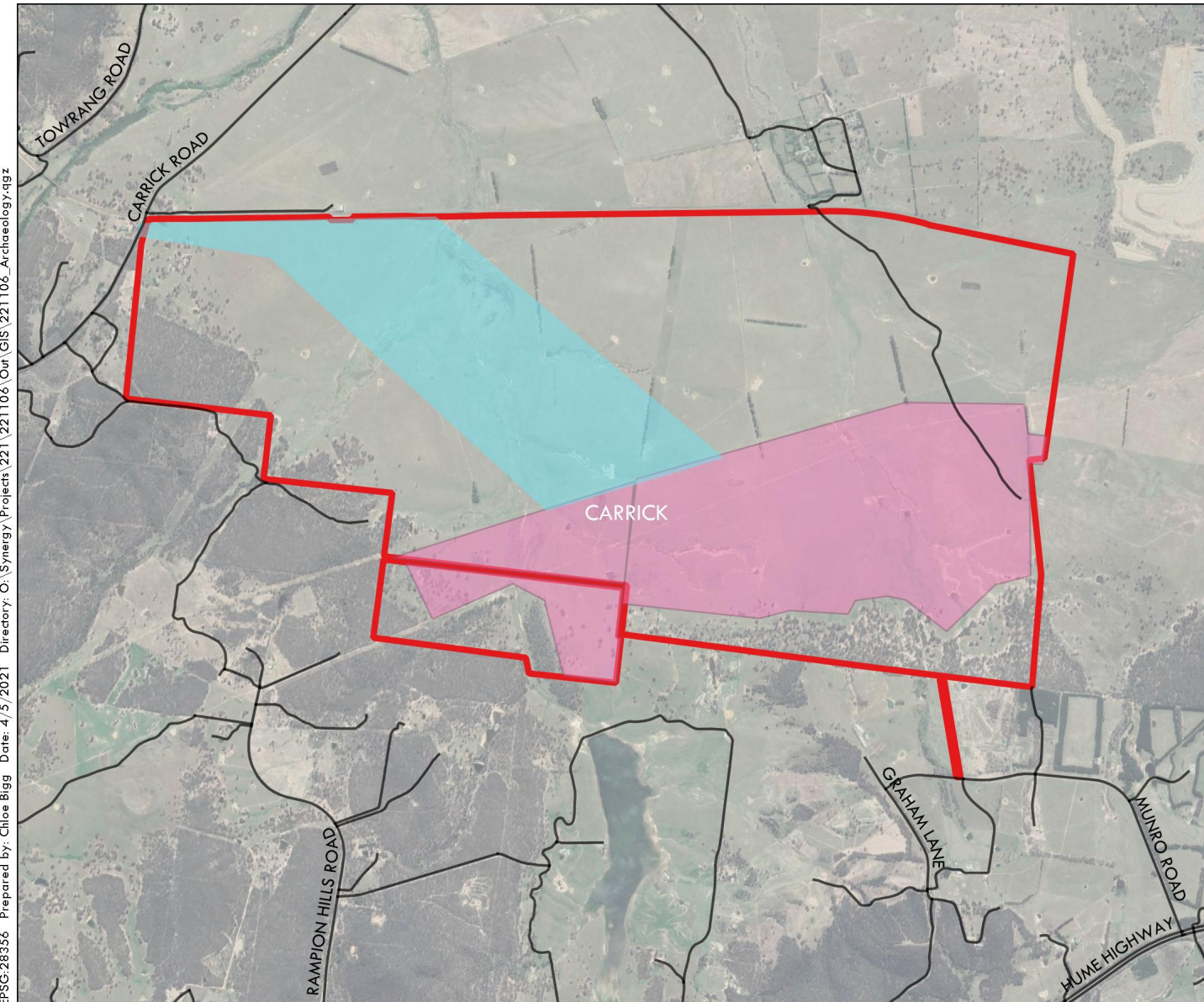
MARULAN SOLAR FARM

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Source: Google Satellite

Latisha Ryall

From: jesse johnson <muragadi@yahoo.com.au>
Sent: Wednesday, 19 May 2021 11:54 AM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha

I would like to register our interest in the above project, we are from the Marulan, Goulburn area. Our heritage is Ngunnawal and have lived in the area and born there.

Kind regards
Jesse Johnson
0418970389

On Wednesday, 19 May 2021, 08:50:43 am AEST, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Muragadi Heritage Indigenous Corporation

5 Hession Road

NELSON NSW 2764

Via email: muragadi@yahoo.com.au

Dear Jesse Johnson

MARulan solar farm proposed development –
section 4.1.3 invitation to register & Identification of Potential interested parties

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Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Gundungurra Tribal Council Aboriginal Corporation
c/- Eddy Neumann Lawyers
DX11501
SYDNEY DOWNTOWN NSW 2000

Via email: en@eddyneumann.com.au

Dear Eddy Neumann

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Yours sincerely



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


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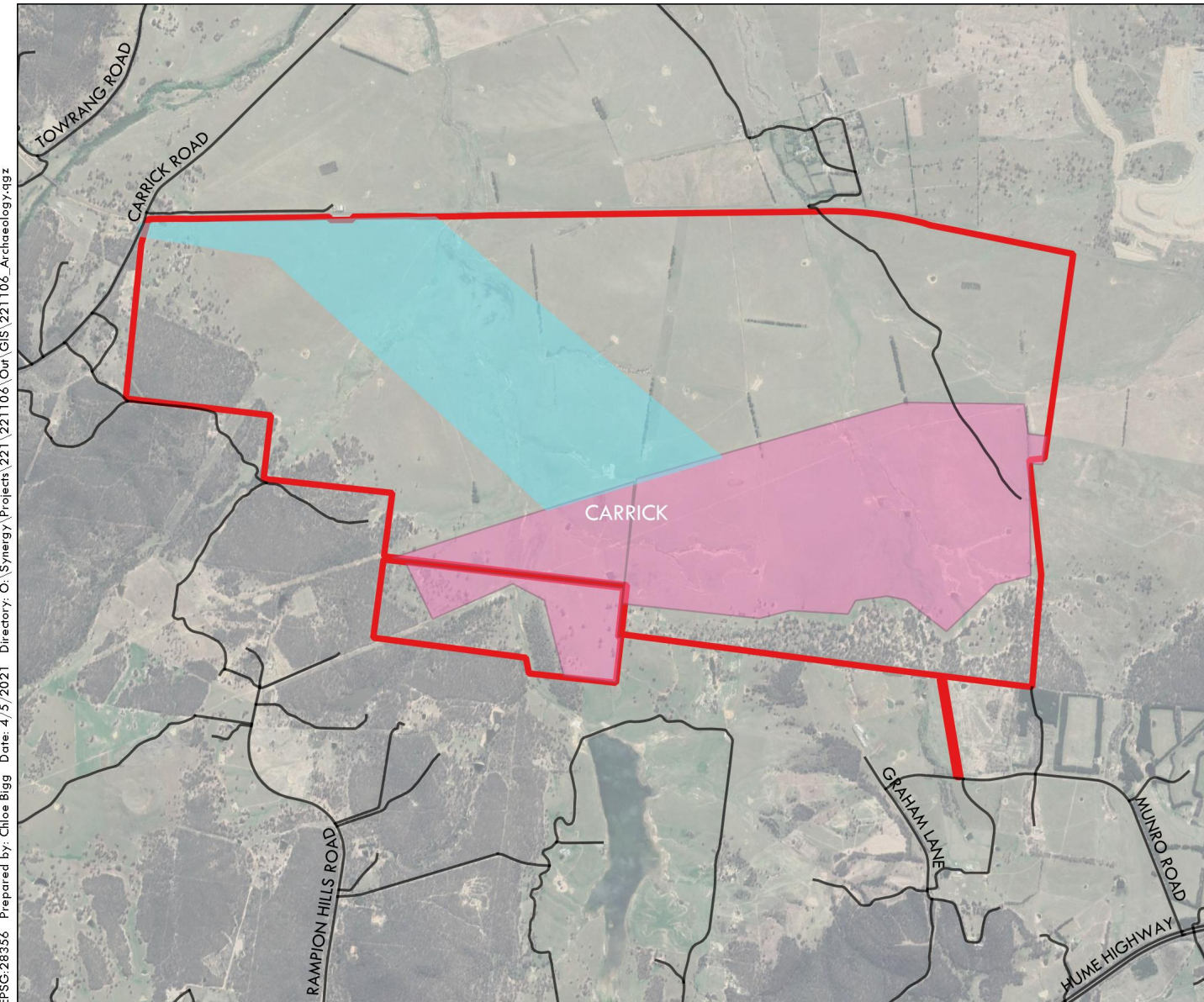
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

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18 May 2021

Gundungurra Aboriginal Heritage Association Inc.
c/- Benetatos White Solicitors & Attorneys
DX 8307
KATOOMBA NSW 2780

Via email: awhite@benetatoswhite.com

Dear Andrew White

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
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


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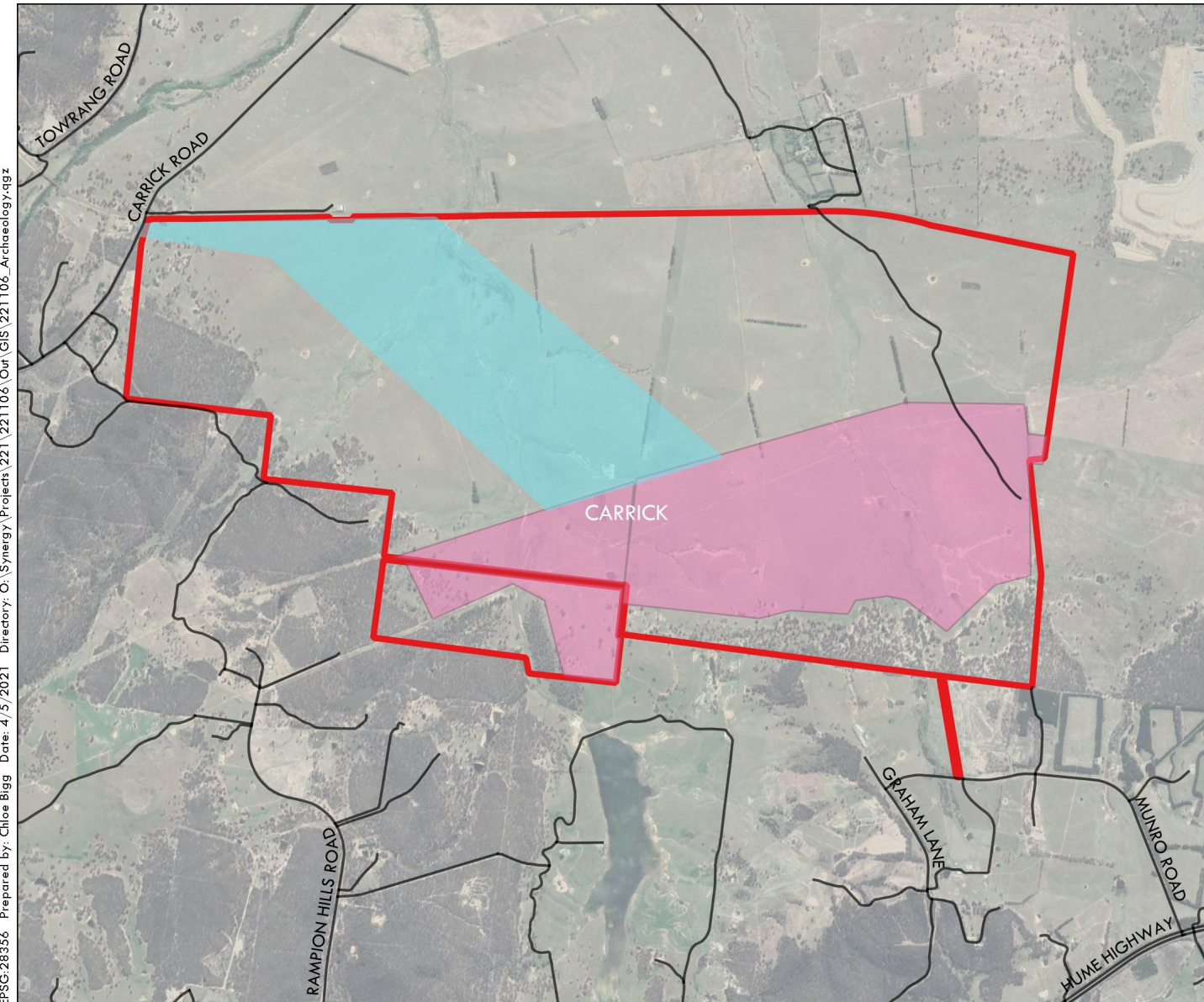
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18 May 2021

THAUAIRA

Via email: thauairachts@gmail.com

Dear Shane Carriage

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SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

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If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

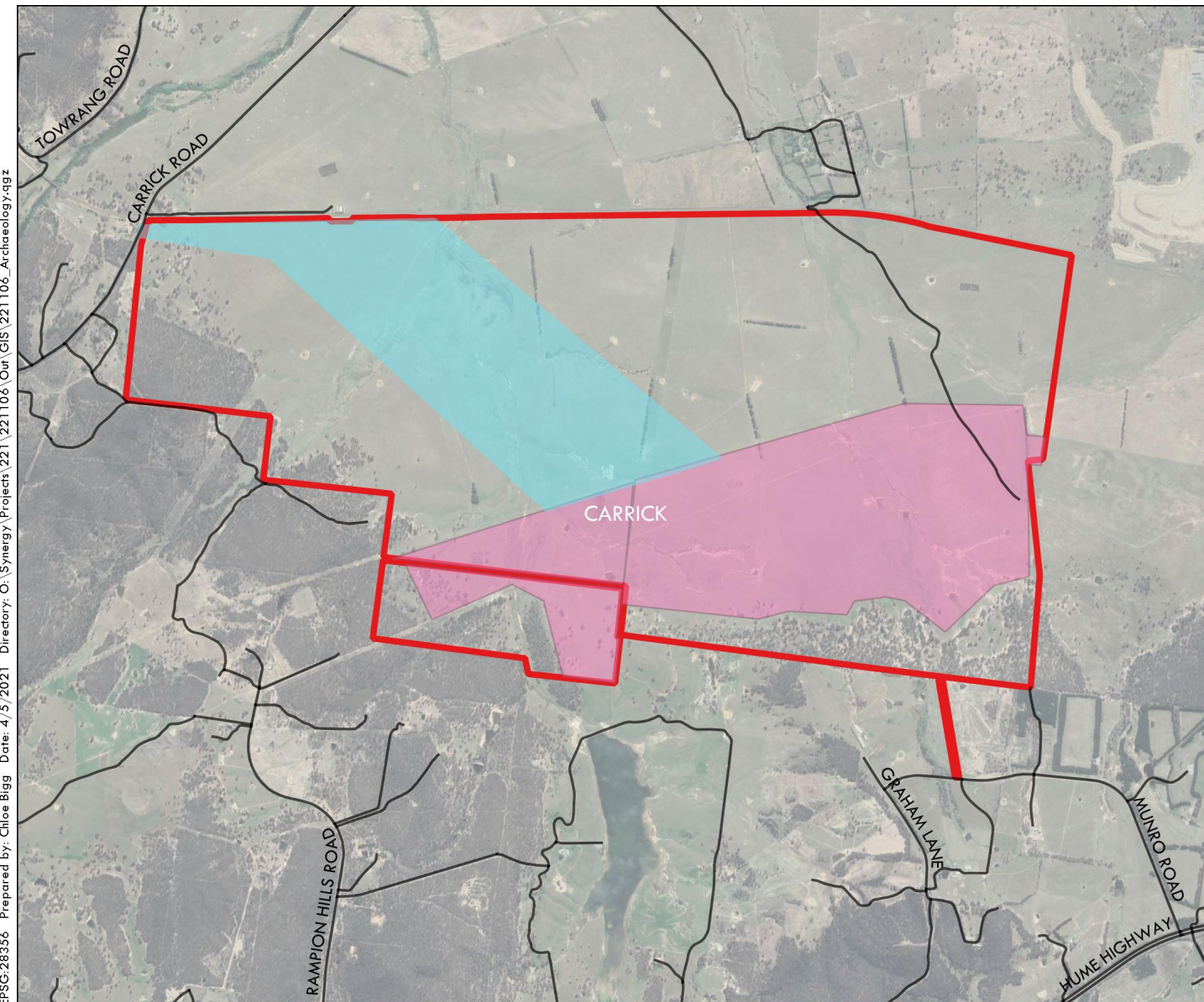
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

WALGALU

Via email: walgaluchts@gmail.com

Dear Ronald Stewart

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
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ORANGE NSW 2800
Ph. 02 6393 5000
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


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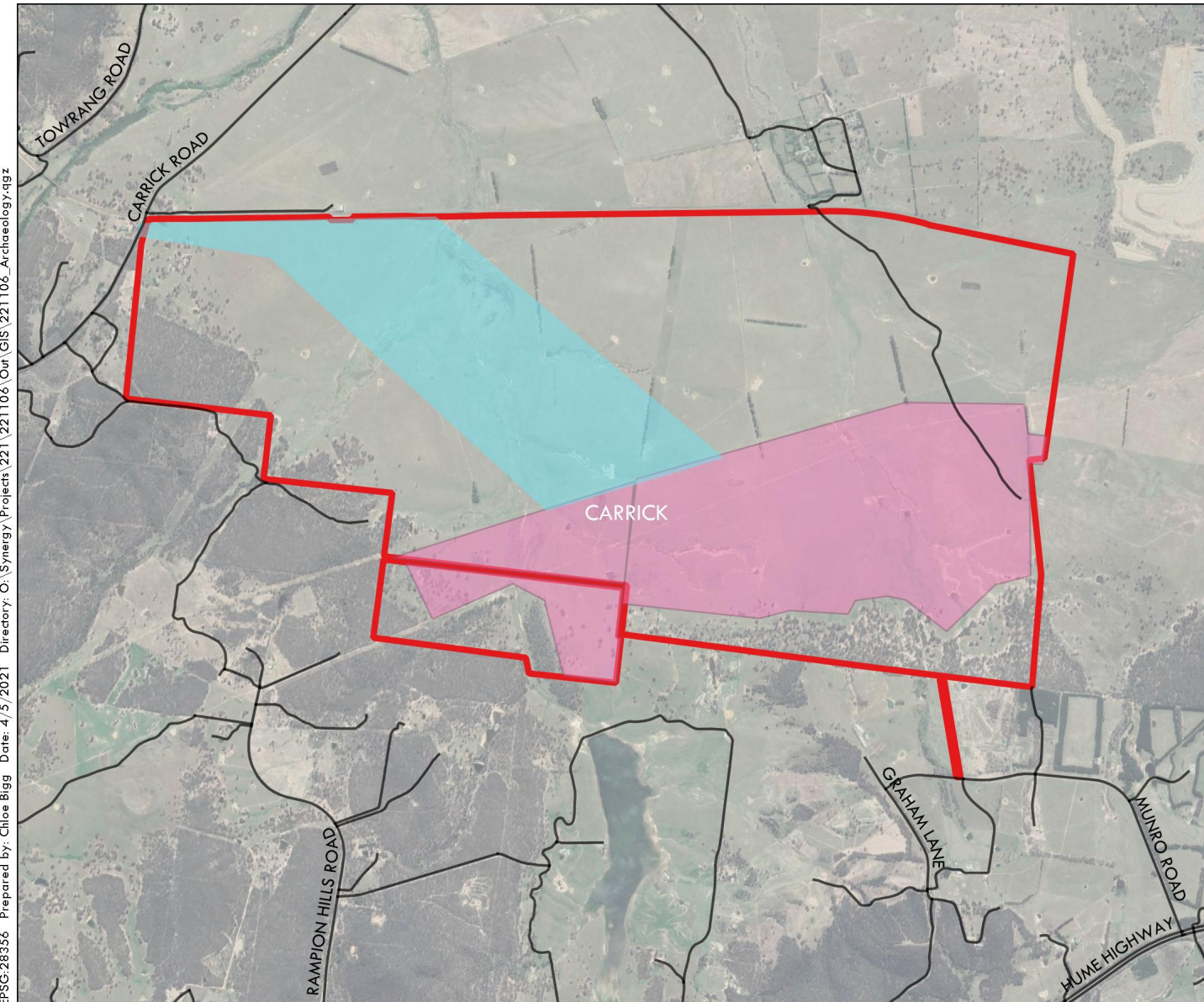
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18 May 2021

Gadhu Dreaming

Via email: gordy2540@hotmail.com

Dear Gordon Campbell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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


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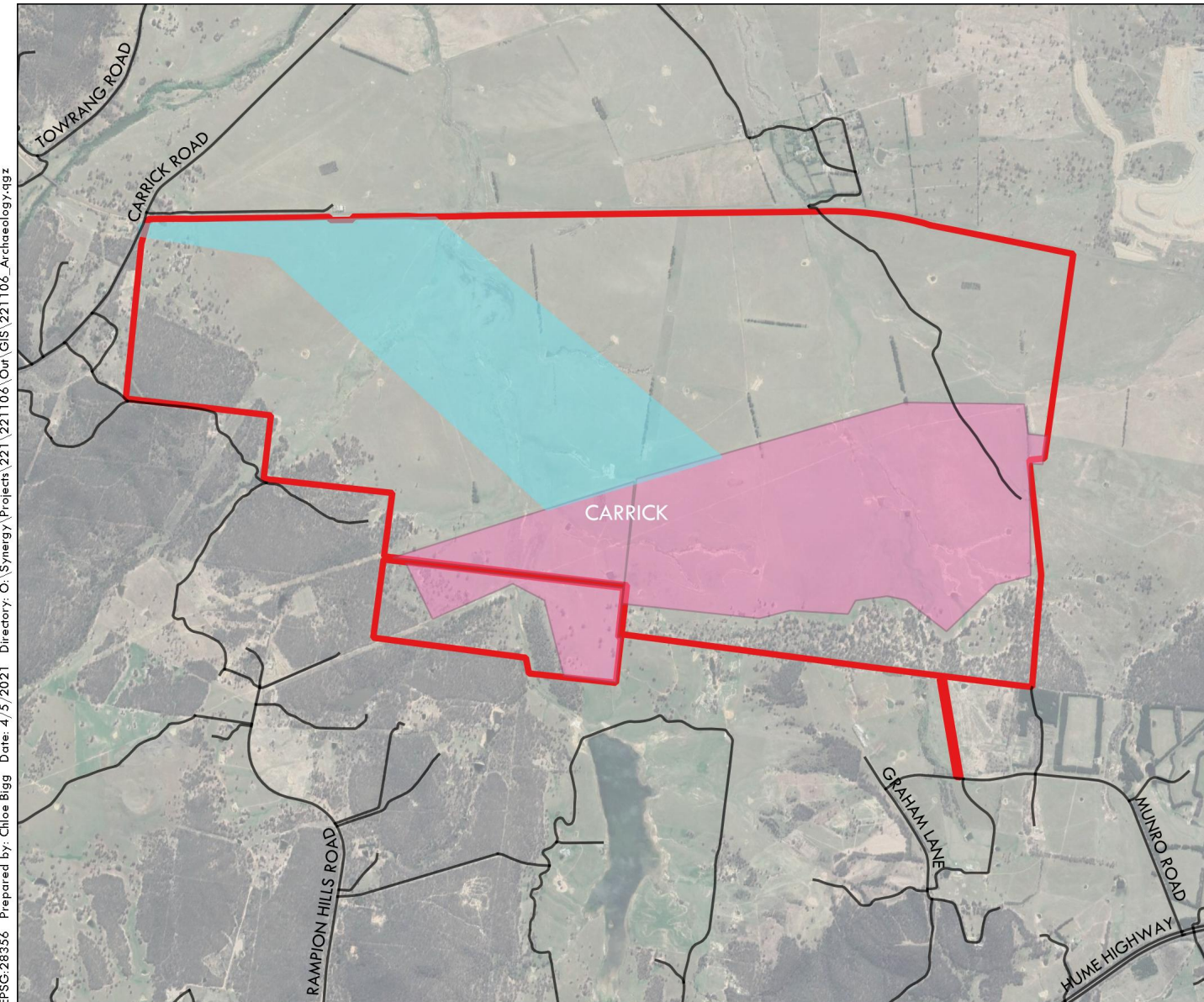
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18 May 2021

Thunderstone Aboriginal Cultural and
Land Management Services Aboriginal Corporation
PO Box 6900
CHARNWOOD ACT 2615

Via email: thunderstonemg@gmail.com

Dear Tyrone Bell

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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Yours sincerely



LATISHA RYALL
Archaeologist





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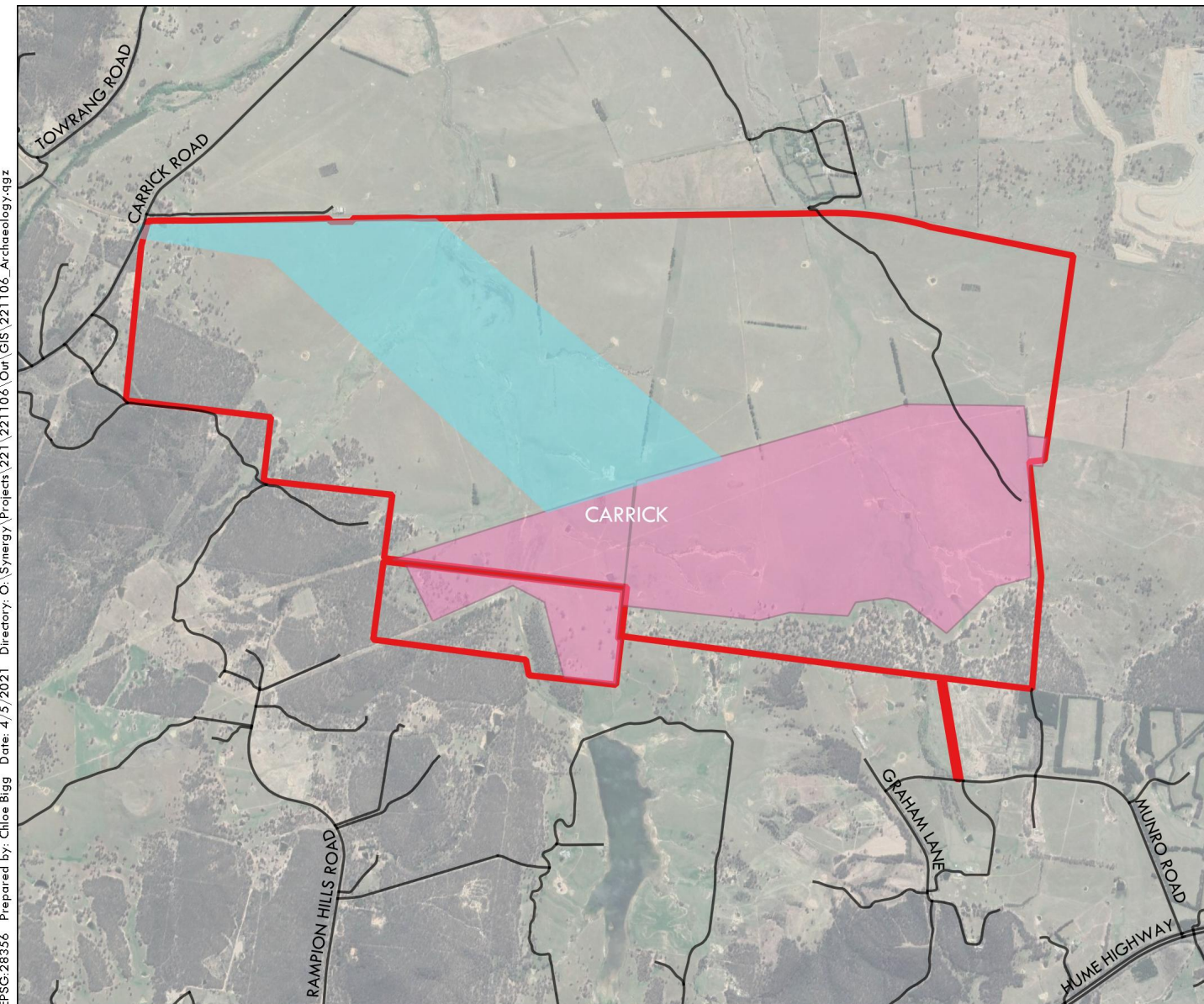
MARULAN SOLAR FARM

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Latisha Ryall

From: Tyronne & Bronwyn <thunderstonemg@gmail.com>
Sent: Wednesday, 19 May 2021 8:51 AM
To: Latisha Ryall
Subject: Out of office: 18 May to 4 June 2021 inclusive Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Hi. Thanks for your email.

Due to a our current workload and upcoming National Reconciliation Week, we may not be able to respond to your email but will endeavour to respond as soon as possible.

If you have a booking with us during this period, we will be in contact and will be contactable if you need to speak to us.

Kind regards

Tyronne & Bron
Thunderstone Aboriginal Cultural Services Pty Ltd

--

Tyronne & Bronwyn
Thunderstone Aboriginal Cultural Services Pty Ltd
PO Box 6900
Charnwood ACT 2615
(M) 0407 517844 / 0419 019415

2017 ACT NAIDOC 'Indigenous Business of the Year' Award Winner

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Duncan Falk Consultancy
34 Robinia Drive
BOWRAL NSW 2576

Via email: duncanfalk@hotmail.com

Dear Dunan Falk

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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Archaeologist





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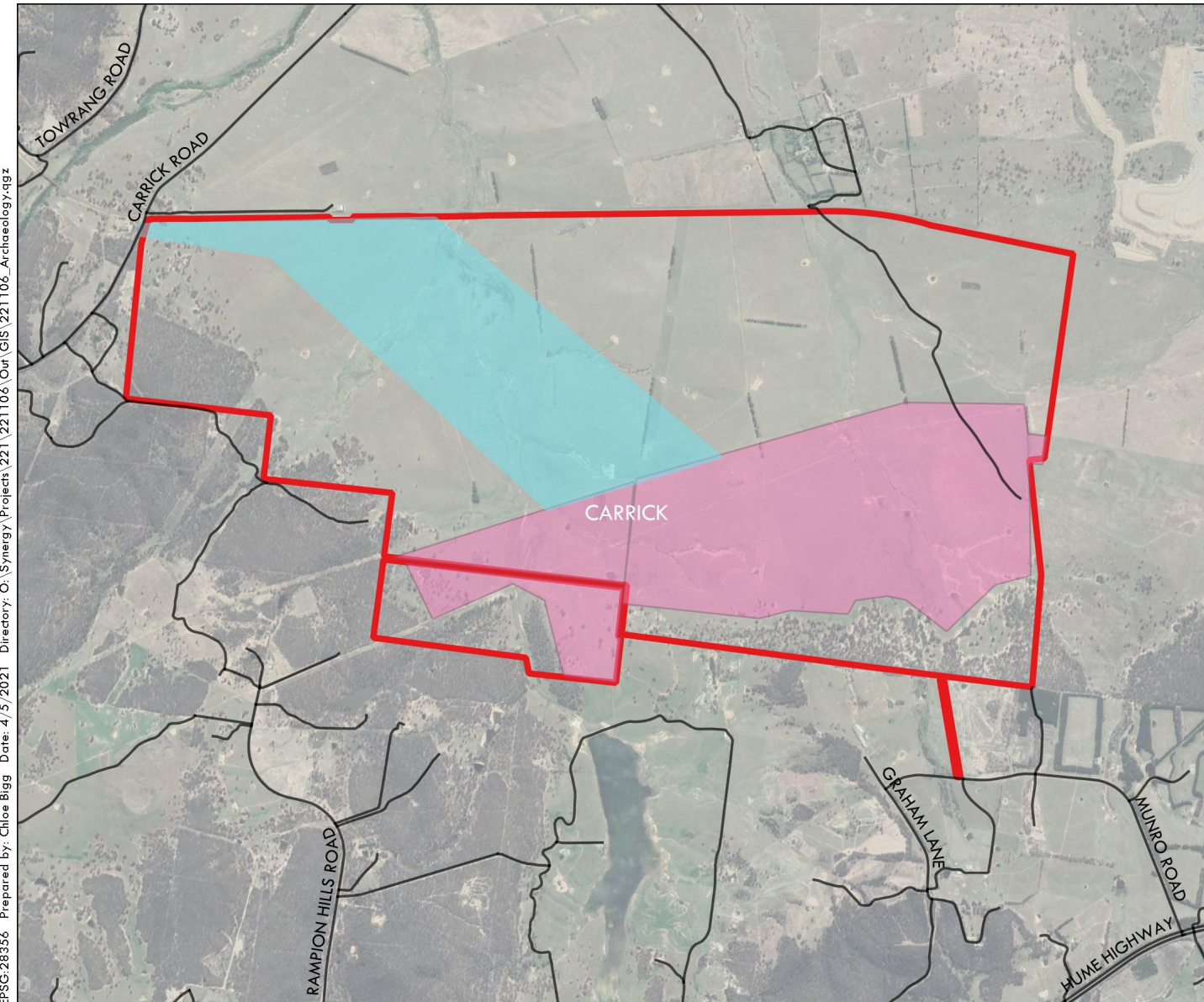
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

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EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Source: Google Satellite

Latisha Ryall

From: Duncan Falk <DuncanFalk@hotmail.com>
Sent: Wednesday, 26 May 2021 2:32 PM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Latisha,

I would like to register for this project.

Kind regards,

Duncan

Duncan Falk

Owner

Duncan Falk Consultancy



Duncan Falk Consultancy

T +61 406 610 644

duncanfalk@hotmail.com

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 19 May 2021 8:50 AM
To: duncanfalk@hotmail.com <duncanfalk@hotmail.com>
Subject: Marulan Solar Farm_4.1.3 Registration of Interest

18 May 2021

Duncan Falk Consultancy
34 Robinia Drive
BOWRAL NSW 2576

Via email: duncanfalk@hotmail.com

Dear Dunan Falk

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Thoorga Nura
50B Hilltop Crescent
SURFBEACH NSW 2536

Via email: thoorganura@gmail.com

Dear John Carriage

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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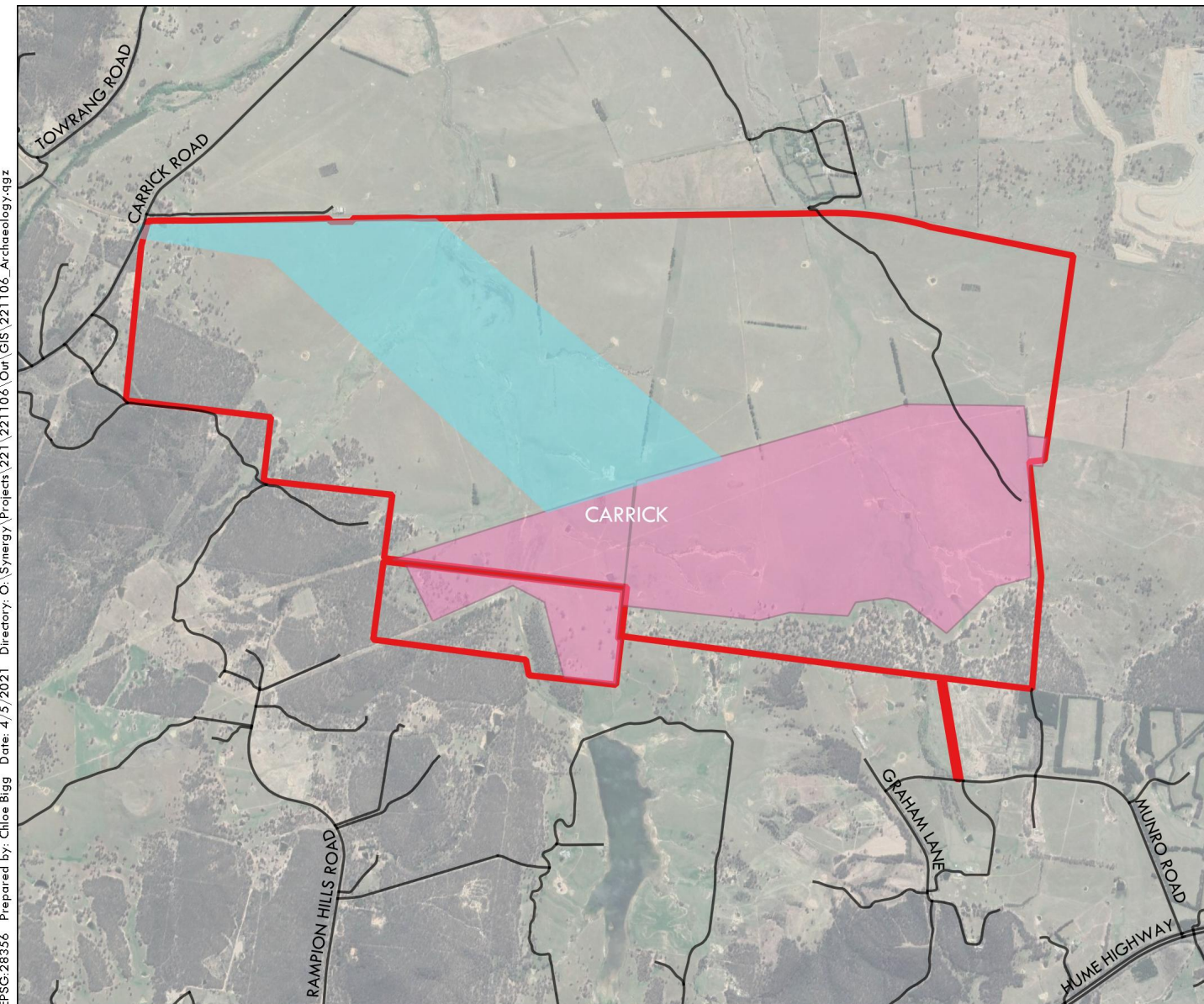
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18 May 2021

Janine Thompson

Via email: janinethompson37@gmail.com

Dear Janine Thompson

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


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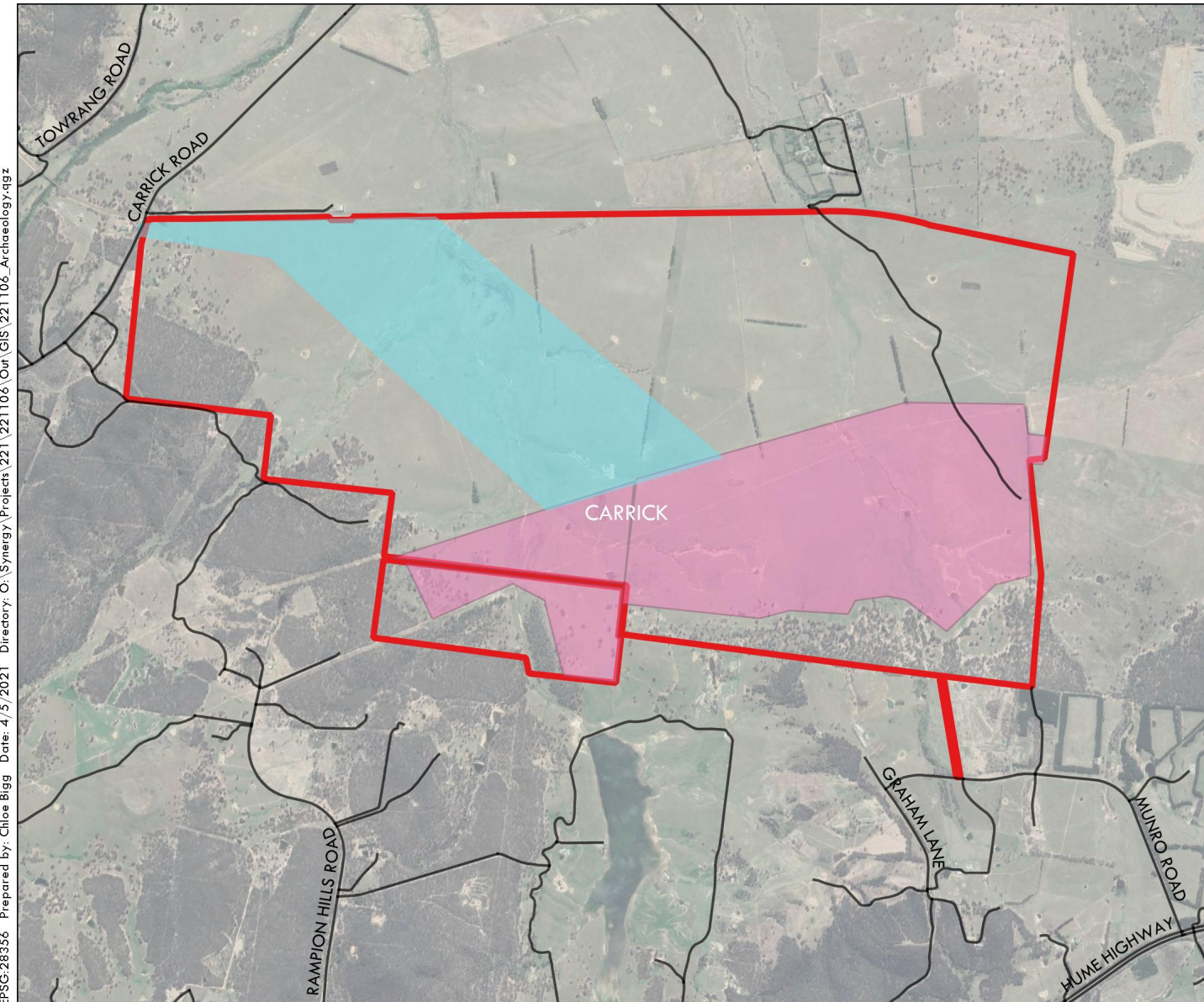
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18 May 2021

Ngurambang
108A Ortella St
GRIFFITH NSW 2680

Via email: wrightv000@gmail.com and bobbo492@gmail.com

Dear Robert Monaghan

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Tom Allen
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Level 24, Tower 3, 300 Barangaroo Avenue
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Phone: 0400079641

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Latisha Ryall
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ORANGE NSW 2800
Ph. 02 6393 5000
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Yours sincerely



LATISHA RYALL
Archaeologist





Figure 1 – Study Area

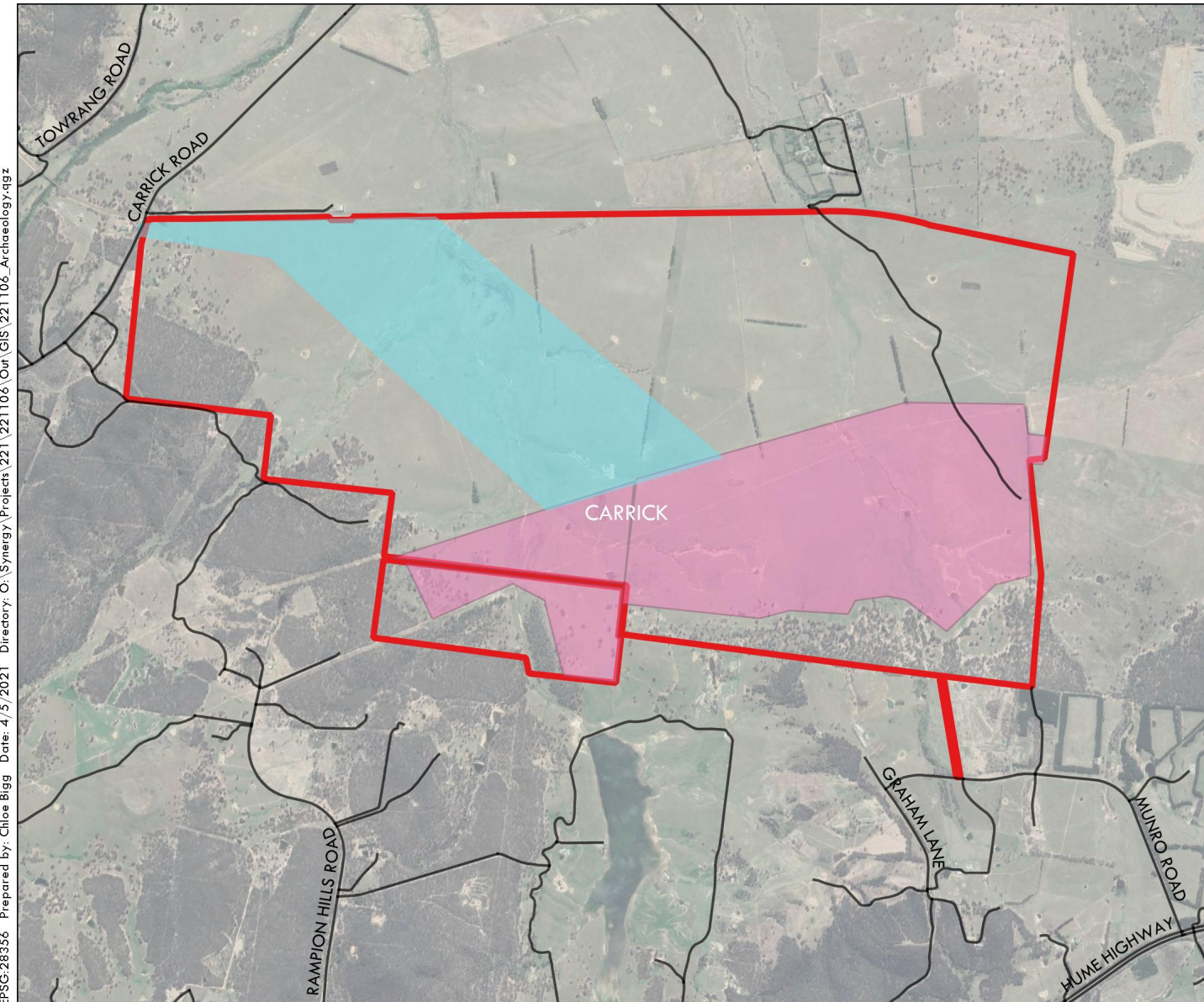
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
-  Roads



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Clorine Lyons
12 Hunter Street Mount Austin
WAGGA WAGGA NSW 2650

Via email: wiraduricc@bigpond.com

Dear Clorine Lyons

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

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


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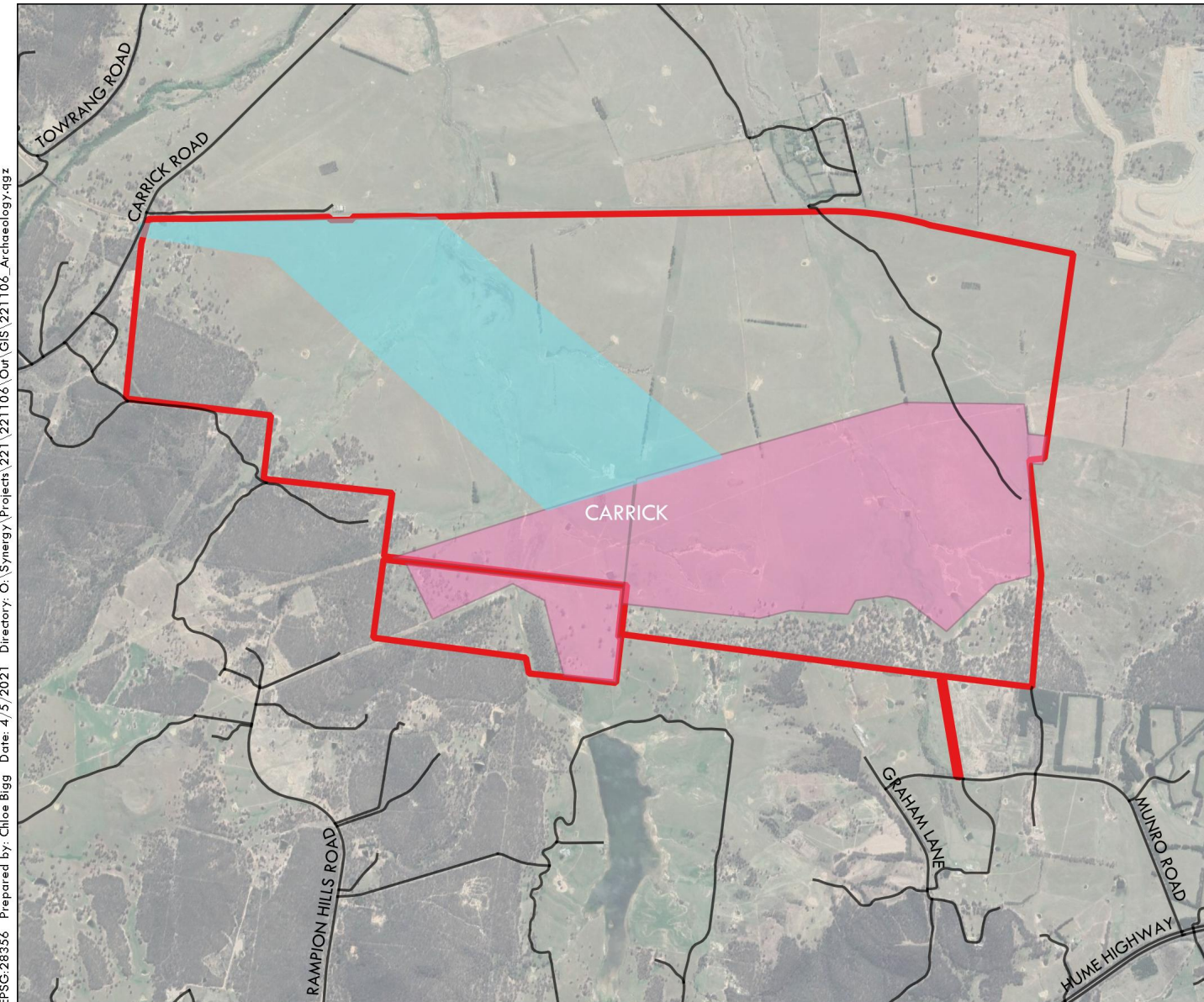
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TERRAIN SOLAR

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EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

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Latisha Ryall

From: Mimecast Admin <mimecast.admin@o2group.com.au>
Sent: Wednesday, 19 May 2021 10:46 AM
To: Latisha Ryall
Subject: Your message couldn't be delivered

Follow Up Flag: Follow up
Flag Status: Flagged

mimecast

Your message couldn't be delivered

The message you sent to wraduricc@bigpond.com couldn't be delivered due to: Recipient email address is possibly incorrect.

Further information

5.1.1 <wraduricc@bigpond.com> recipient rejected. Recipient does not exist. IB603a

If you sent this message to multiple addresses, you'll receive a notification like this for every one that didn't arrive.

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Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Ngunawal Consultancy

Via email: pd.ngunawalconsultancy@gmail.com

Dear Peiro Delponte

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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Yours sincerely



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Archaeologist





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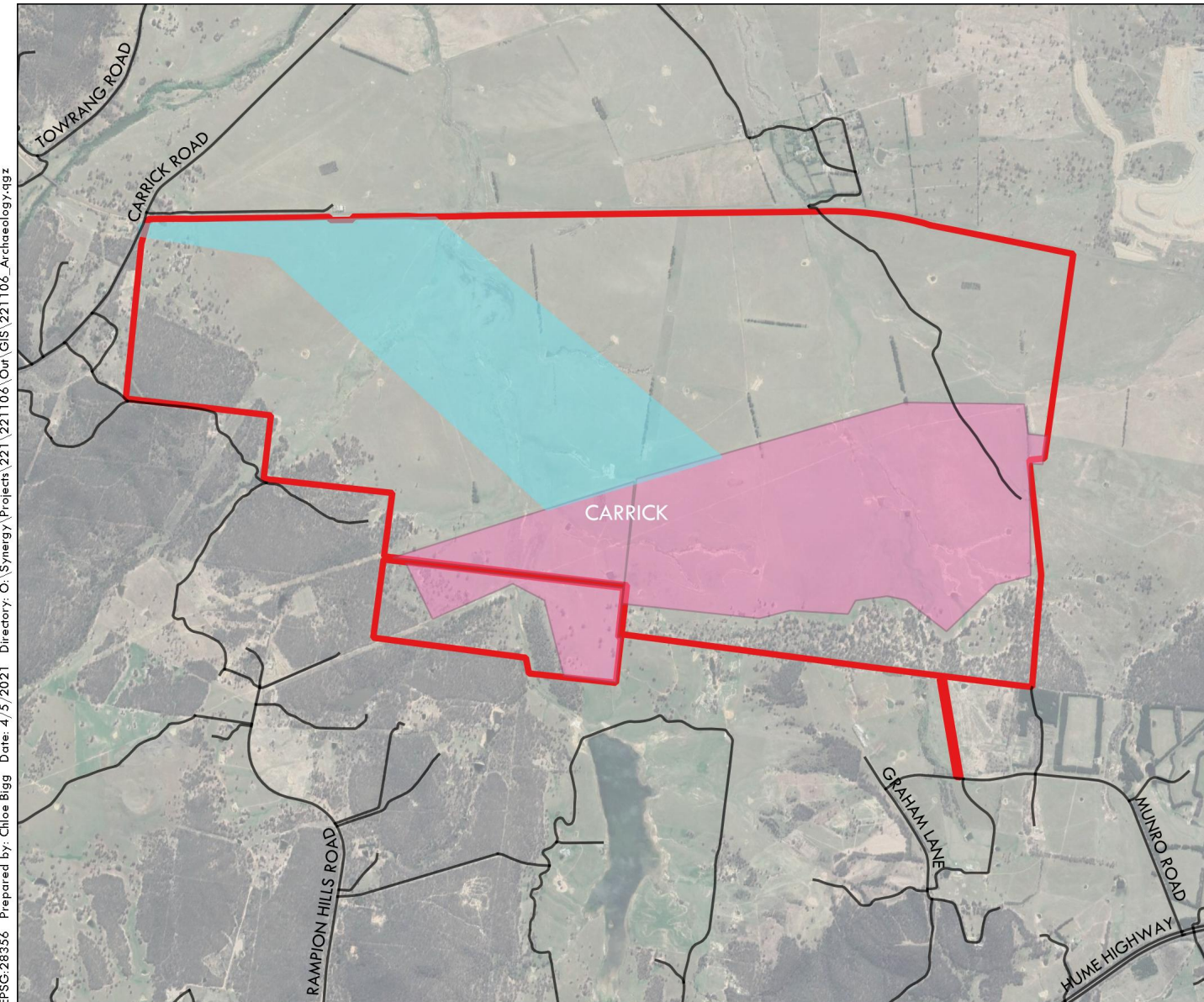
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

LEGEND

-  Solar Investigation Area
-  Buildable Footprint
-  Host Lot
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EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Source: Google Satellite

Latisha Ryall

From: Perio Delponte <pd.ngunawalconsultancy@gmail.com>
Sent: Wednesday, 19 May 2021 10:31 AM
To: Latisha Ryall
Subject: Registration of Interest for Marulan Solar Farm.

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon.

PD Ngunawal Consultancy is pleased to express our interest in participating in the proposed Marulan Solar Farm.

Our consultants are passionate about their Aboriginal heritage and dedicated to working with Governments, proponents, archeologists and other Aboriginal organisations to ensure that Aboriginal objects and places with Aboriginal cultural heritage significance are appropriately protected.

Our consultants have extensive experience in Aboriginal heritage assessment work, having worked on a variety of sites around the Canberra and South Eastern NSW region and have helped to identify many different types of objects and places with Aboriginal cultural heritage significance.

We look forward to your response.

If you require any further information, please do not hesitate to contact me.

Kind regards,
Tammy Muscat
0432 670 223

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Oak Hill Enterprises

Via email: oakhillenterprises@bigpond.com

Dear Sonia Shea

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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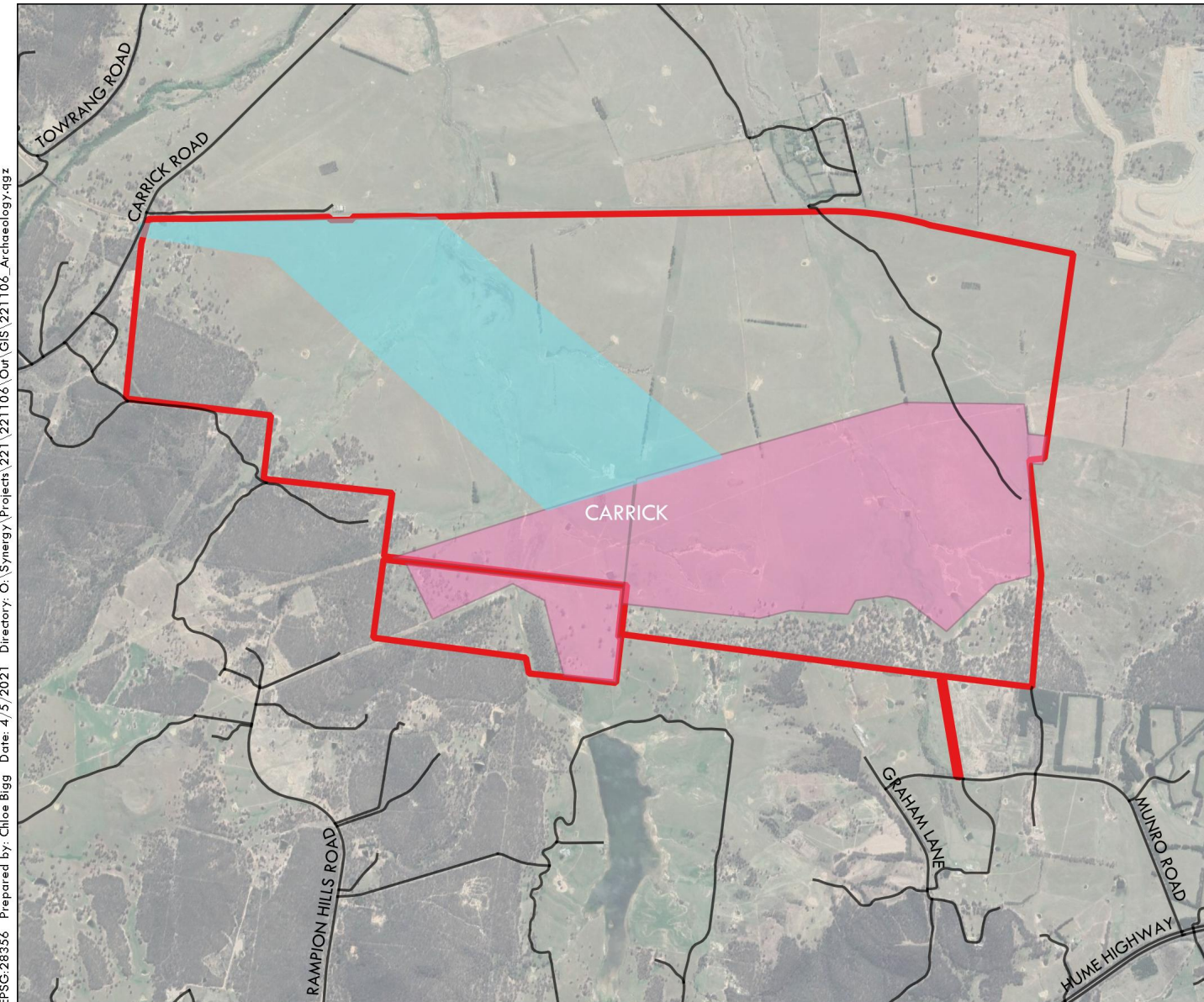
MARULAN SOLAR FARM

TERRAIN SOLAR

Study Area

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EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Our\GIS\221106_Archaeology.qgz

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Gilay Consultants
6 MacGibbon Parade
OLD EROWAL BAY NSW 2540

Via email: cal.slater61@gmail.com

Dear Carol Slater

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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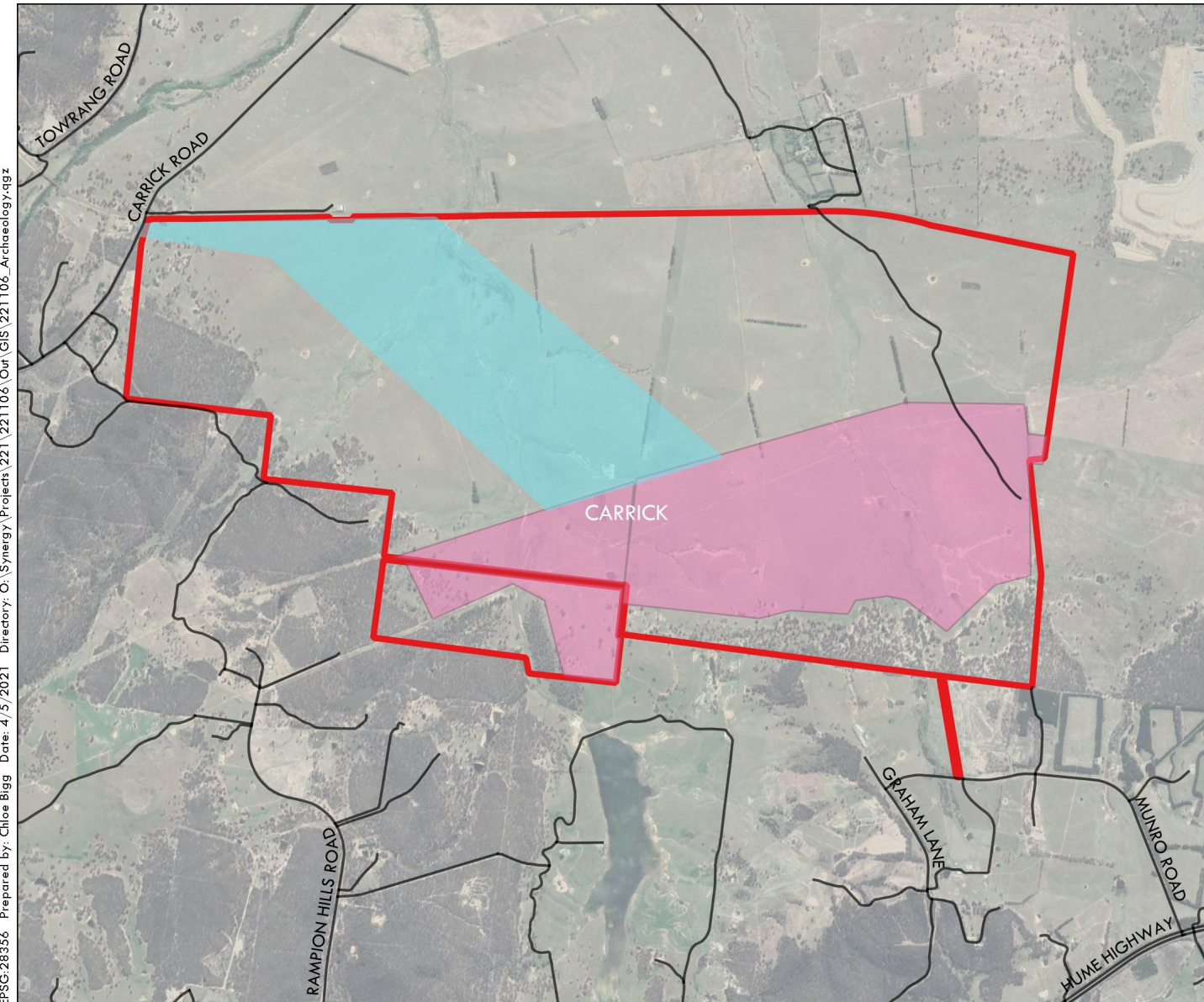
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Source: Google Satellite

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Ngunawal Heritage Aboriginal Corporation
245 Ash Road
PRESTONS NSW 2170

Via email: ngunawalhac@gmail.com

Dear Dean Delponte

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
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


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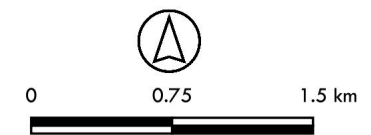
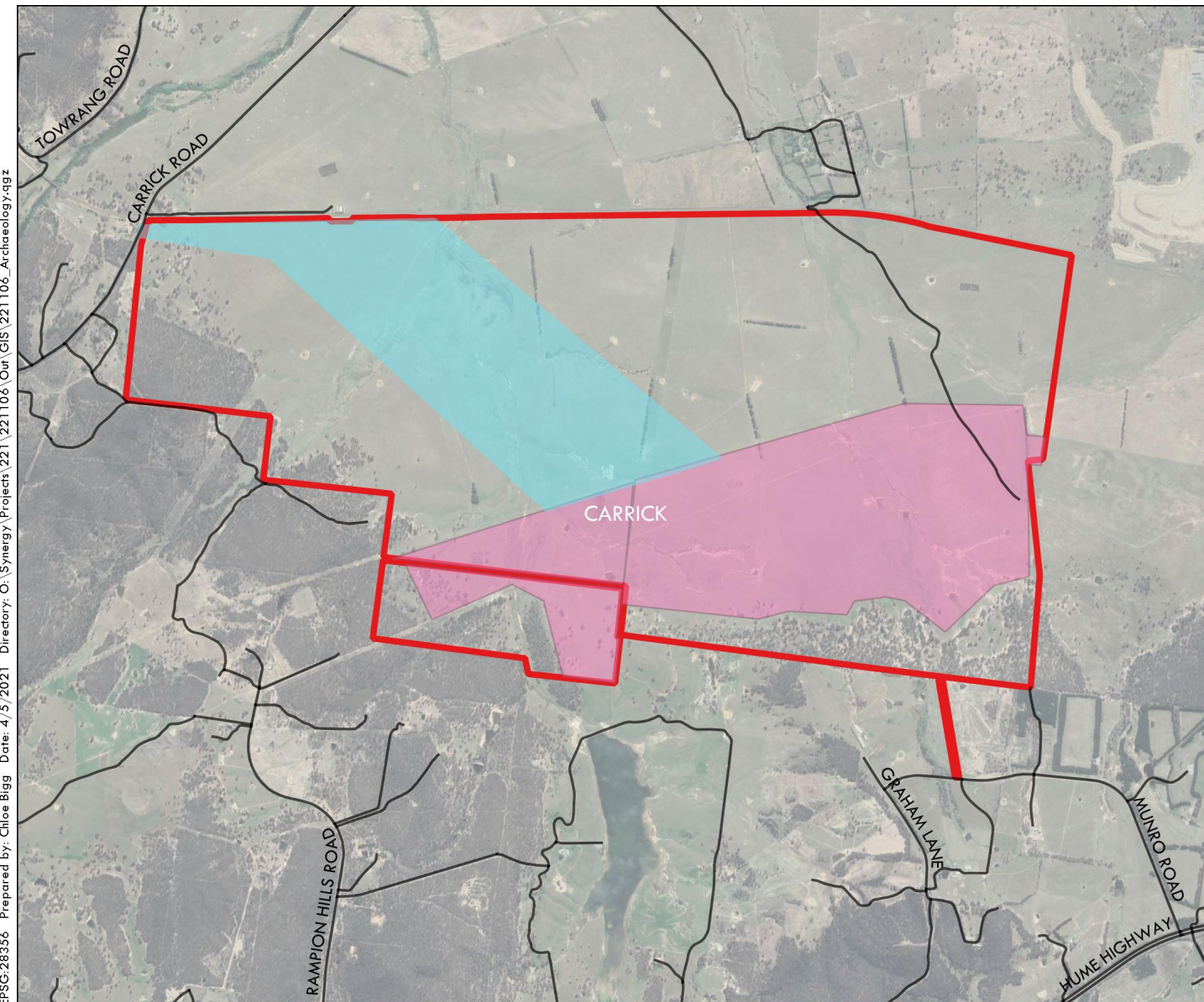
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TERRAIN SOLAR

Study Area

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Source: Google Satellite

Latisha Ryall

From: Ngunawal Heritage Aboriginal Corporation <ngunawalhac@gmail.com>
Sent: Thursday, 20 May 2021 8:48 AM
To: Latisha Ryall
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest
Attachments: NHAC - Registration of Interest.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,

Thank you for your email.

Please be informed that we would like to register our interest in the Aboriginal Cultural Heritage Assessment for the Marulan Solar Farm (includes Lot 55 DP 1141136). Please refer to the attached document for further information.

Please also note that we do not wish our details to be forwarded to the Pejar Local Aboriginal Land Council.

Kind Regards

Dean Delponte
Director
0413186133
ngunawalhac@gmail.com

Ngunawal Heritage Aboriginal Corporation
ICN 4755

On Wed, May 19, 2021 at 8:51 AM Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Ngunawal Heritage Aboriginal Corporation

245 Ash Road

PRESTONS NSW 2170

Via email: ngunawalhac@gmail.com

Dear Dean Delponte

MARulan solar farm proposed development –
section 4.1.3 invitation to register & Identification of Potential interested parties

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

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Phone: 0400079641

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Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



latisha ryall
Archaeologist

Figure 1 – Study Area

Ngunawal Heritage Aboriginal Corporation (ICN 4755)

Aboriginal assessment and advisory services

ABN 31494344309

Insurance

NHAC has Workers Compensation Insurance and Public Liability Insurance coverage. A copy of our Certificates of Currency can be provided prior to any work being undertaken.

Qualifications

All our consultants have completed the WorkCover course in OHS General Induction for Construction Work in NSW.

The majority of our consultants have also completed a course in Asbestos Removal (Friable Asbestos).

Some consultants also have current Senior First Aid certificates and have wide-ranging experience in management, construction work and manual labour.

Experience

Our consultants have extensive experience in Aboriginal heritage assessment work. Members have worked on a variety of sites around the NSW/Canberra region including (but not limited to):

- Eastern Gas Pipeline between Melbourne, Canberra and Sydney – Duke Energy
- Department of Defence Headquarters Joint Operations Project, Queanbeyan – URS and Leightons Contractors
- Marulan South Quarry Project for the Construction of 2 Dams – Blue Circle Southern Cement
- Marulan South Mine Waste Site – Blue Circle Southern Cement
- Coolac By-Pass, Hume Highway – RTA
- Fibre Optic Cabling, Yass – Telecom
- Edwin Land Drive, Jerrabomberra – RTA
- Yass-Wagga Transmission Line – TransGrid
- Tarlo River National Park – Telstra
- Capital Solar Farm Substation, Bungendore – Infigen Suntech
- Marulan Peppertree Quarry – Boral
- Marulan Limestone Mine – GSS Environmental
- Gounyan Curves, Yass – RTA
- Barton Highway, Yass to Canberra – RTA
- Cooma to Bega Transmission Line Upgrade – Country Energy
- Bungonia State Conservation Area Camp Upgrade – NPWS
- Dargues Reef Majors Creek – Big Island Mining

Ngunawal Heritage Aboriginal Corporation (ICN 4755)

Aboriginal assessment and advisory services

ABN 31494344309

- Highland Source Project – Goulburn Mulwaree Council
- Galong Mine Site – Graymont

Across these projects, our consultants have typically been involved in the following work:

- Surveying - walking with the archaeologists across the proposed development area within the defined boundaries to identify scattered aboriginal artefacts on top of the soil;
- Marking the identified areas and recording their GPS position;
- Digging spits of specified dimensions at gradual levels until clay is reached;
- Bucketing the contents of each spit and marking each bucket with the spit position;
- Dry sieving and wet sieving to find and identify Aboriginal artefacts;
- Working with the archaeologist to sort and identify genuine Aboriginal artefacts including bagging and marking the artefacts;
- Heavy machinery monitoring (including road graders, bulldozers, trucks etc) - following and monitoring excavations done by heavy machinery to identify aboriginal artefacts that come to the surface;
- Data recording of any artefacts found, including artefact analysis (cleaning, sorting, sizing, weighing, data entry);
- Providing advice on the cultural significance and values of the objects or places identified;
- Reporting daily finds to relevant Aboriginal stakeholders; and
- Working with archaeologists and proponents to develop preferred site management options;

Aboriginal Sites

On these projects, our consultants have helped to identify many different types of objects and places with Aboriginal cultural heritage significance including;

- | | |
|---------------------------------|---------------------------------|
| • Hammer/Grinding Stones, | • Men And Women Business Sites, |
| • Axe Heads, Choppers | • Rock Engravings, |
| • Stones Tools (flakes, cores), | • Grinding Grooves and, |
| • Cultural Scarred Trees, | • Aboriginal art works (rock |
| • Aboriginal Burial Grounds, | shelters, caves) |

Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Clive Freeman
6 Dhugan Close
WRECK BAY ABORIGINAL COMMUNITY JBT 2540

Via email: clive.freeman@y7mail.com

Dear Clive Freeman

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED
PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the NSW *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) for the project have now been issued (SSD 13137914), which includes the following requirements:

- identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with these requirements, Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

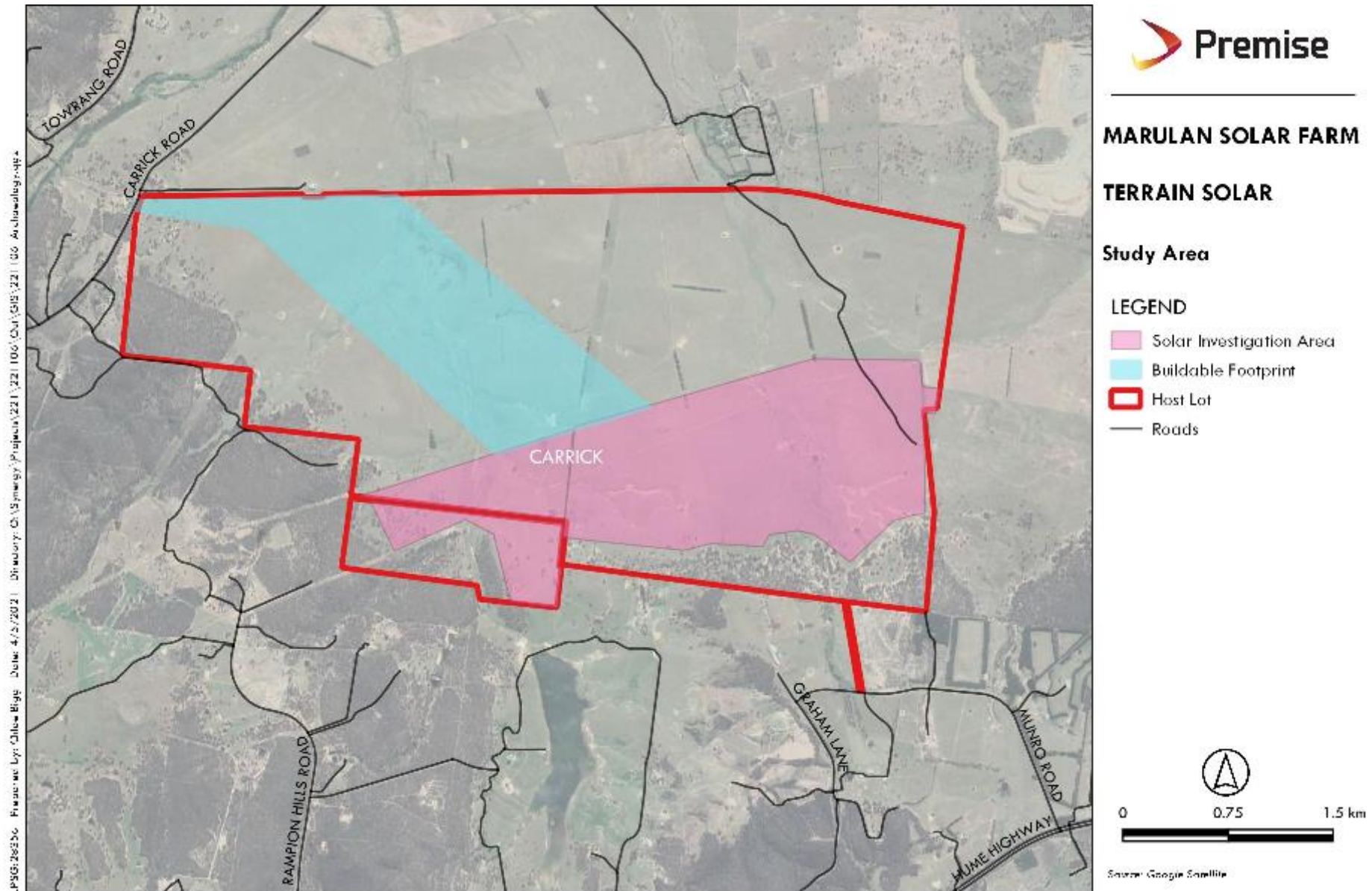
If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



Latisha Ryall

From: Clive Freeman <clive.freeman@y7mail.com>
Sent: Friday, 21 May 2021 2:15 PM
To: Latisha Ryall; peter markovic
Subject: Re: Marulan Solar Farm_4.1.3 Registration of Interest

Follow Up Flag: Follow up
Flag Status: Completed

Hi team,

Freeman & Marx would like to express our interest in the project. We have a family group in the company which represents 3 males and 3 female officers. Please let us know what further information you require and we will get back to you with it.

Kind regards

Clive Freeman
Managing Director
Freeman&marx PtyLtd

On 19 May 2021, at 8:51 am, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

18 May 2021

Clive Freeman
6 Dhugan Close
WRECK BAY ABORIGINAL COMMUNITY JBT 2540

Via email: clive.freeman@y7mail.com

Dear Clive Freeman

MARULAN SOLAR FARM PROPOSED DEVELOPMENT – SECTION 4.1.3 INVITATION TO REGISTER & IDENTIFICATION OF POTENTIAL INTERESTED PARTIES

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

Latisha Ryall

From: j.gordon@bigpond.net.au
Sent: Saturday, 22 May 2021 10:28 AM
To: Latisha Ryall
Cc: mulwareeaboriginalcommunity@gmail.com; 'David King'
Subject: Marulan Solar Farm Carrick

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning Latisha,
Please register Mulwaree Aboriginal Community Inc as a group with interest in Aboriginal objects, places and values for the area of the proposed Marulan Solar Farm at Carrick NSW.

Thanks and regards
Jennie Gordon
Public Officer and A/Secretary
Mulwaree Aboriginal Community Inc
0408788391

Latisha Ryall

From: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Sent: Monday, 21 June 2021 10:12 AM
To: Latisha Ryall
Subject: Marulan Solar Farm Project

Follow Up Flag: Follow up
Flag Status: Completed

Hi Latisha, How are you?

I'm just emailing you on an update of the Marulan Solar Farm Project to see where it is at and if we have been selected as one of the RAPS.

Thanks
Merekai Bell
Yurwang Gundana Cultural Heritage Services

Latisha Ryall

From: Latisha Ryall
Sent: Tuesday, 3 August 2021 3:04 PM
To: David Walker
Subject: Re: 221106

Thanks Dave I will add this to the consultation log
Tish

Get [Outlook for iOS](#)



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: David Walker <David.Walker@premise.com.au>
Sent: Tuesday, August 3, 2021 2:31:46 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: 221106

Hi Tish

I had a call today from Josephine Reardon of the Yurwang Gundana Cultural Heritage Services.

She was chasing up on status. I said the issue of the methodology was imminent. She asked me to confirm she had Yurwang Gundana on the list. I confirmed we did, with Dean Bell as the contact.

Cheers,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: [Latisha Ryall](#)
To: [Latisha Ryall](#)
Cc: [David Walker](#); [Ben](#)
Bcc: [blakneycreek@gmail.com](#); [pejar1@bigpond.com](#); [ngunawal56@outlook.com](#); [corroboreecorp@bigpond.com](#); [murrabidgeemullangari@yahoo.com.au](#); [merrigarn@hotmail.com](#); [didgengunawalclan@yahoo.com.au](#); [muragadi@yahoo.com.au](#); [duncanfalk@hotmail.com](#); [pd.ngunawalconsultancy@gmail.com](#); [ngunawalhac@gmail.com](#); [clive.freeman@v7mail.com](#); [konanggo_consultancy@hotmail.com](#); [walbell@bigpond.net.au](#); [j.gordon@bigpond.net.au](#)
Subject: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology
Date: Tuesday, 24 August 2021 3:06:36 PM
Attachments: [221106_Draft ACHAR Methodology_001D.pdf](#)

Good afternoon

Thank you for registering as a stakeholder for the proposed Marulan Solar Farm project. I have attached a Draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review. If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR If you have any questions about the proposed survey OR if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall
Archaeologist
Premise Australia Pty Ltd
latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Tuesday, 24 August 2021 5:00 PM
To: Latisha Ryall
Cc: David Walker; Ben
Subject: Re: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Follow Up Flag: Follow up
Flag Status: Completed

Hi Latisha

DNC holds no restraints towards the Marilyn solar Farm project and would love to be a part of the survey etc, DNC is fully insured and experienced in all aboriginal existence and the footprint lies within Ngunawal land. So please contact us on 0426823944 or via email

Kind regards
Paul Boyd & Lilly Carroll
Directors DNC

[Sent from Yahoo Mail for iPhone](#)

On Tuesday, August 24, 2021, 3:08 pm, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

Good afternoon

Thank you for registering as a stakeholder for the proposed Marulan Solar Farm project. I have attached a Draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review. If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR If you have any questions about the proposed survey OR if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall

Archaeologist

Premise Australia Pty Ltd

latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?

- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: Latisha Ryall
Sent: Wednesday, 25 August 2021 8:21 AM
To: yurwang gundana
Subject: RE: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Follow Up Flag: Follow up
Flag Status: Completed

Good Morning Merekai

Thank you for your email, we are looking at undertaking the survey in the next few months October/November, however will keep you updated when we have more information on dates and how many representatives would be required. Please call or email me with any other questions you may have.

Kind regards,
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Sent: Tuesday, 24 August 2021 5:30 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Hi Latisha, hope you are going well in this lockdown

Yurwang Gundana Agrees with the methodology you have Provided, Do you a time frame of when the survey will begin and how representatives you would like us to provide?

Thanks
Merekai Bell
Yurwang Gundana Cultural Heritage Services

Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 26 August 2021 9:19 AM
To: Pejar LALC
Subject: [#221106] Marulan Solar Farm_Proposed ACHAR and Survey Methodology_Pejar Response

Follow Up Flag: Follow up
Flag Status: Completed

Good morning Delise,

Thank you for providing information about the AHIMS records it is good to know!
The AHIMS search has indicated several sites in and around the area which we have mapped.
Please let me know if you have any other information on the ACHAR and survey methodology that you would like noted.
Thank you
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: Pejar LALC <pejar1@bigpond.com>
Sent: Thursday, 26 August 2021 8:40 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Morning Latisha

Marulan is very high in Aboriginal Cultural Heritage. There have been a number of Aboriginal Heritage sites recorded in and around there, im not sure what AHIMS is coming up with but there have been a number of times that the sites haven't shown up when a search has been carried out, just be weary of this..

If you would like to discuss further, then please do not hesitate to contact e on the numbers listed below.

Kind regards

Delise Freeman, JP
CEO
Pejar Local Aboriginal Land Council
80 Combermere Street
Or PO Box 289

Goulburn NSW 2580
(T) 0248223552
(F) 0248223551
(M) 0417254813

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Tuesday, 24 August 2021 3:07 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Cc: David Walker <David.Walker@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Good afternoon

Thank you for registering as a stakeholder for the proposed Marulan Solar Farm project. I have attached a Draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review. If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR If you have any questions about the proposed survey OR if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall
Archaeologist
Premise Australia Pty Ltd
latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: jesse johnson <muragadi@yahoo.com.au>
Sent: Monday, 6 September 2021 3:58 PM
To: Latisha Ryall
Subject: Re: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha

I have read the project information and survey methodology for the above project, I agree with the recommendations made

Kind regards

Jesse Johnson

On 24 Aug 2021, at 3:08 pm, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

Good afternoon

Thank you for registering as a stakeholder for the proposed Marulan Solar Farm project. I have attached a Draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review. If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR If you have any questions about the proposed survey OR if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall
Archaeologist
Premise Australia Pty Ltd
latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,

<Premiselogo_246905ea-ab02-4ac3-8756-503637ab4fc8.jpg>

LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800

Latisha Ryall

From: Ngunawal Heritage Aboriginal Corporation <ngunawalhac@gmail.com>
Sent: Monday, 13 September 2021 9:51 AM
To: Latisha Ryall
Subject: Re: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology
Attachments: NHAC Response - Assessment Methodology.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,

Thank you for providing us with a copy of the project information and proposed assessment methodology. The information within the document is very detailed and informative.

Please refer to the attached document for further information.

We look forward to working with you on this project. If you require any further information please do not hesitate to contact us.

Kind Regards

Dean Delponte
Director
0413186133
ngunawalhac@gmail.com

Ngunawal Heritage Aboriginal Corporation
ICN 4755

On Tue, Aug 24, 2021 at 3:08 PM Latisha Ryall <latisha.ryall@premise.com.au> wrote:

Good afternoon

Thank you for registering as a stakeholder for the proposed Marulan Solar Farm project. I have attached a Draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review. If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR If you have any questions about the proposed survey OR if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall

Archaeologist

Premise Australia Pty Ltd

latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Draft Methodology

A field survey is an important process in determining the potential existence of Aboriginal heritage sites and it will also help determine the extent of an excavation program that may follow should Aboriginal heritage sites and suitable land-forms/soil profiles be identified.

The assessment of any study area (with consideration to disturbance) should always take into account the environmental context of the wider area in which a particular site may be found. Cultural connections to landscape spread far and wide over many different types of terrain. Sometimes sites will occur where least expected and others will be under estimated.

The proposed assessment methodology outlined for this project is consistent with our views when assessing the potential in identifying Aboriginal heritage across this project site.

Cultural Knowledge

Stone artefact sites tell one small part of the cultural story, it does not consider Aboriginal environmental knowledge associated with these sites such as native wildlife, vegetation and water, as this is another important cultural value.

The strong relationship our ancestors had with the natural environment and its natural resources was important to their survival and spiritual beliefs. Lore was developed to maintain systems of traditions and continuation of species (flora and fauna).

Native vegetation was and is a source of sustenance and medicine as well as having spiritual meaning. Thus the health of the land and the maintenance of Mother Nature was and always will remain linked to the health and wellbeing of Aboriginal people, both physically, mentally and spiritually.

Guidelines and Requirements

It is important to be consistent with current guidelines and requirements when developing strategies and to actively involve Aboriginal stakeholders whenever Aboriginal heritage may be impacted by any proposed works. This will help to ensure duty of care to all Aboriginal heritage with best practice and provide a positive outcome for all parties involved.

Further Information

For further information please contact:

Director: Dean Delponte
Telephone: 0413 186 133
E-mail: ngunawalhac@gmail.com
Address: Ngunawal Heritage Aboriginal Corporation
245 Ash Road
Prestons NSW 2170

Latisha Ryall

From: Latisha Ryall
Sent: Monday, 13 September 2021 9:46 AM
To: pejar1@bigpond.com
Subject: FW: [#221106] Site Survey - Marulan Solar Farm Invitation to attend Pejar LALC follow up

Good Morning Delise,

I tried to call last week and this morning as a follow up to the email for the Marulan survey field work at the end of the month. Is there a time that is best to give you a call?

Kind regards,
Latisha


LATISHA RYALL
Archaeologist
T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Monday, 6 September 2021 1:02 PM
To: pejar1@bigpond.com
Subject: [#221106] Site Survey - Marulan Solar Farm Invitation to attend Pejar LALC

Good afternoon Delise

Premise will be undertaking the site survey for the Marulan Solar Farm at the end of the month and I would like to know if a representative from Pejar LALC is free on the 28-30 September 2021 and would like to join us?

Please let me know if those dates are suitable. As it is unprecedented times with COVID-19, we are trying to minimise contact and the proponent has agreed to one representative in attendance. If Pejar is unable to attend on those dates would you suggest we contact Wally Bell (Buru Ngunnawal) to undertake the site survey with us as noted from your previous correspondence? Please note we would like to ensure that all insurances are in place and a COVID response plan is provided by the local representative before we go ahead with the field survey.

Please call or email me with any questions that you may have and I look forward to meeting you or a representative on site.

Kind regards,
Latisha

Latisha Ryall

From: Latisha Ryall
Sent: Wednesday, 22 September 2021 3:55 PM
To: pejar1@bigpond.com
Cc: Ben
Subject: [#221106] Marulan Solar Farm Site Survey - Confirmation
Attachments: 221106_Pre Work Risk Assessment.pdf; 221106_IPQ-FO10 SWMS General Site Inspections.pdf
Importance: High

Good afternoon Delise

I am confirming that the Marulan Solar Farm field survey will be going ahead next week Tuesday to Thursday (28/09/2021-30/09/2021).

Following up on our phone call last week, please see attached SWMS and Pre Work RA that I will have with me on Tuesday covering COVID-19 requirements.

Can you please send through Pejar LALC's Public Liability insurances for me no later than tomorrow afternoon and any COVID-19 plans you may have in place as I will need these for our records and to take a copy before I head to site.

We will all meet on Tuesday morning, I will confirm the meeting point and time in the next few days.

My mobile number is 0429 777 741 for any questions if yourself or another LALC representative need to call me.

Thanks
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 23 September 2021 8:54 AM
To: Pejar LALC
Subject: RE: [#221106] Marulan Solar Farm Site Survey - Confirmation

Good morning Delise

Thank you so much for sending through the information. I will have a SWMS that everyone can sign onto for the day.

Latisha


LATISHA RYALL
Archaeologist
T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: Pejar LALC <pejar1@bigpond.com>
Sent: Wednesday, 22 September 2021 5:32 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm Site Survey - Confirmation

Good Afternoon Latisha

Please find attached insurances as requested.

I will need to forward our Covid Plan when I'm next in the office.

Kind regards

Delise Freeman, JP
CEO
Pejar Local Aboriginal Land Council
80 Combermere Street
Or PO Box 289
Goulburn NSW 2580
(T) 0248223552
(F) 0248223551
(M) 0417254813

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 22 September 2021 3:55 PM
To: pejar1@bigpond.com

Cc: Ben <Ben@ozarkehm.com.au>

Subject: [#221106] Marulan Solar Farm Site Survey - Confirmation

Importance: High

Good afternoon Delise

I am confirming that the Marulan Solar Farm field survey will be going ahead next week Tuesday to Thursday (28/09/2021-30/09/2021).

Following up on our phone call last week, please see attached SWMS and Pre Work RA that I will have with me on Tuesday covering COVID-19 requirements.

Can you please send through Pejar LALC's Public Liability insurances for me no later than tomorrow afternoon and any COVID-19 plans you may have in place as I will need these for our records and to take a copy before I head to site.

We will all meet on Tuesday morning, I will confirm the meeting point and time in the next few days.

My mobile number is 0429 777 741 for any questions if yourself or another LALC representative need to call me.

Thanks
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



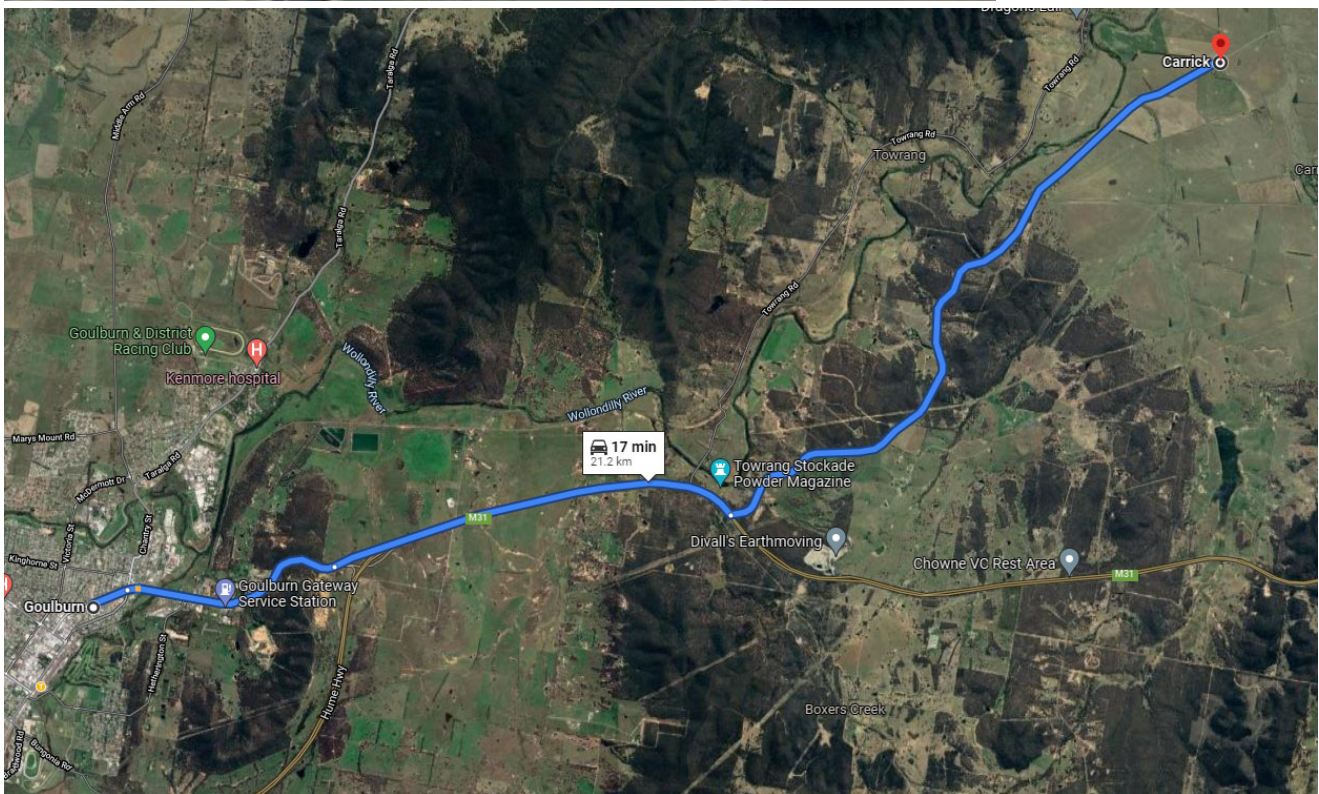
Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 23 September 2021 4:54 PM
To: Pejar LALC
Cc: Ben
Subject: [#221106] Marulan Solar Farm survey - Meeting Place

Good afternoon Delise and Ben

We will be meeting at 1114 Carrick Road on Tuesday morning at 8.00 am for the MSF Survey. Please ensure that you have enough food and water for the day and are wearing appropriate PPE such as long pants, shirt and sturdy walking boots. I will also have water in the 4WD for us. Please ensure you also carry a mask for COVID 19 requirements for when we are travelling in the car together.

Below are some directions for getting to site. We will initially meet on Carrick road as this will be the first access point into the property, there is a parcel of land that has two access point driveways and I think that is a good place to meet. We can then find a suitable place to park up most likely at the homestead and then I will drive us around site if you are comfortable with this or if you prefer to have your own 4WD vehicle that is also fine.



Directions

LOCKYERSLEIGH HOUSE - 1114 CARRICK ROAD, BRAYTON NSW 2580

Lockyersleigh is 190 km from Sydney with an approximate travel time of 2 hours. It is located 25 km of Goulburn, 10 km off the Hume Highway. Canberra is one hour away to the South West. If you require more information on location please contact us at 0414 235 533. (FAX 02 9363 9363)

To reach Lockyersleigh by road please follow the directions below.

From Sydney

- Take Marulan township exit off Hume Highway.
- When you reach the main street (500m from exit) drive straight across it and on until you reach first intersection and turn right onto Brayton Road
- Drive for 7km and turn left onto Carrick Road
- Drive 5km, turn left into property (at triangle shaped fence) and it is 2 km in.

From Goulburn

- Heading North from Goulburn, approximately 11km, on the Hume Highway
- you take the Carrick / Brayton road to the left (becomes a dirt road)
- Drive 12 km along Carrick Road (over main Sydney to Melbourne railway)
- Take right hand turn into property (at triangle shaped fence) and it is 2km in.

Train travel is also available via Goulburn as well as an airport for small commercial planes.

Please call me with any questions that you may have and I look forward to meeting you next week.

Kind regards
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: [David Walker](#)
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: [Latisha Ryall](#); [Ben](#)
Bcc: blakneycreek@gmail.com; pejar1@bigpond.com; ngunawal56@outlook.com; corroboreecorp@bigpond.com; murrabidgeemullangari@yahoo.com.au; merrigarn@hotmail.com; didgengunawalclan@yahoo.com.au; j.gordon@bigpond.net.au; muragadi@yahoo.com.au; duncanfalk@hotmail.com; pd.ngunawalconsultancy@gmail.com; ngunawalhac@gmail.com; clive.freeman@y7mail.com; konanggo_consultancy@hotmail.com; walbell@bigpond.net.au
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology
Date: Wednesday, 24 November 2021 2:58:22 PM
Attachments: [221106_REP_002A.pdf](#)

Good afternoon

We previously wrote to you on the 24 August 2021 in relation to the proposed Marulan Solar Farm to provide a draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review.

Site survey was completed on the 28-30 September 2021 and a number of sites identified for further testing.

We now provide this addendum methodology for your review and comment, in advance of completion of excavation testing on the week starting 20 December 2021. We anticipate field work occurring for a period of 5 days (ie, 20-24 December).

If you have any comments on the draft addendum methodology, please provide these by 15 December 2021 to the undersigned.

We are also seeking expressions of interest from RAPs for involvement in site testing. Please respond to this email address if you would like to put your name forward for involvement in site testing.

Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: David Walker
Sent: Wednesday, 23 March 2022 12:22 PM
To: Latisha Ryall
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

3



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800





POSITION VACANT
TOWN PLANNER

Premise is seeking a Town Planner based in Orange
HR@premise.com.au

APPLY NOW



From: David Walker <David.Walker@premise.com.au>
Sent: Monday, 29 November 2021 2:45 PM
To: jesse johnson <muragadi@yahoo.com.au>
Cc: Ben <Ben@ozarkeh.com.au>; Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi Jesse

We are currently collating expressions of interest from RAPs and liaising with Heritage NSW. We will be in touch with coordination details within the next week or 2.

Kind regards,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: jesse johnson <muragadi@yahoo.com.au>
Sent: Monday, 29 November 2021 11:48 AM
To: David Walker <David.Walker@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David,
Any updates on the above project,
Thanks
Jesse Johnson

On Thursday, 25 November 2021, 08:48:17 am AEDT, David Walker <david.walker@premise.com.au> wrote:

Thanks Jesse



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: jesse johnson <muragadi@yahoo.com.au>
Sent: Wednesday, 24 November 2021 3:20 PM
To: David Walker <David.Walker@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David,

I have read the Addendum methodology for the above project, I endorse the recommendations made. I would also appreciate if we could be involved in the fieldwork for this project as we hold a strong cultural connection to the area.

Kind regards

Jesse Johnson

0418970389 or Anthony 0467180149

On Wednesday, 24 November 2021, 03:01:17 pm AEDT, David Walker <david.walker@premise.com.au> wrote:

Good afternoon

We previously wrote to you on the 24 August 2021 in relation to the proposed Marulan Solar Farm to provide a draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review.

Site survey was completed on the 28-30 September 2021 and a number of sites identified for further testing.

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If you have any comments on the draft addendum methodology, please provide these by 15 December 2021 to the undersigned.

We are also seeking expressions of interest from RAPs for involvement in site testing. Please respond to this email address if you would like to put your name forward for involvement in site testing.

Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | M 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: David Walker
Sent: Wednesday, 4 May 2022 4:50 PM
To: Latisha Ryall
Subject: Fwd: [#221106] Marulan Solar Farm - Addendum Methodology
Attachments: 221106_REP_002A.pdf



DAVID WALKER
General Manager – Central NSW

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Begin forwarded message:

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Date: 24 November 2021 at 3:09:08 pm AEDT
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David,
I have read the project information and methodology for the above project, I endorse the recommendations made. We would also like to be involved in the site testing should we be chosen, I look forward to hearing from you.
Kind regards
Ryan Johnson
0475565517

On Wednesday, 24 November 2021, 03:01:15 pm AEDT, David Walker
<david.walker@premise.com.au> wrote:

Good afternoon

We previously wrote to you on the 24 August 2021 in relation to the proposed Marulan Solar Farm to provide a draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review.

Site survey was completed on the 28-30 September 2021 and a number of sites identified for further testing.

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If you have any comments on the draft addendum methodology, please provide these by 15 December 2021 to the undersigned.

We are also seeking expressions of interest from RAPs for involvement in site testing. Please respond to this email address if you would like to put your name forward for involvement in site testing.

Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards

DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800

Latisha Ryall

From: David Walker
Sent: Monday, 29 November 2021 10:46 AM
To: Shaun Carroll
Cc: Ben; Latisha Ryall
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks Shaun

Email received and interested noted. We will be in touch.

Kind regards,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: Shaun Carroll <Merrigarn@hotmail.com>
Sent: Thursday, 25 November 2021 1:50 PM
To: David Walker <David.Walker@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David

We would like to be included in the site testing please see attached insurances and covid certificate and look forward to working with you on this project.

Kind Regards
Shaun Carroll

From: David Walker <David.Walker@premise.com.au>
Sent: Thursday, 25 November 2021 8:48 AM
To: Shaun Carroll <Merrigarn@hotmail.com>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Thanks Shaun



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: Shaun Carroll <Merrigarn@hotmail.com>
Sent: Wednesday, 24 November 2021 3:15 PM
To: David Walker <David.Walker@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David,
I have read the addendum methodology for the above project, I agree with the recommendations made. I would also like to be involved in the site testing, please let me know confirmation of fieldwork and dates so I can lock them in, I look forward to working with you.
Kind regards
Shaun Carroll

Sent from [Mail](#) for Windows

From: [David Walker](#)
Sent: Wednesday, 24 November 2021 2:59 PM
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: [Latisha Ryall](#); [Ben](#)
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

Good afternoon

We previously wrote to you on the 24 August 2021 in relation to the proposed Marulan Solar Farm to provide a draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review.

Site survey was completed on the 28-30 September 2021 and a number of sites identified for further testing.

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If you have any comments on the draft addendum methodology, please provide these by 15 December 2021 to the undersigned.

We are also seeking expressions of interest from RAPs for involvement in site testing. Please respond to this email address if you would like to put your name forward for involvement in site testing.

Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards

Latisha Ryall

From: Mail Administrator <postmaster@bigpond.com>
To: corrobororeecorp@bigpond.com
Sent: Wednesday, 24 November 2021 2:59 PM
Subject: Undeliverable: Mail System Error - Returned Mail with Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

This Message was undeliverable due to the following reason:

The user(s) account is temporarily over quota.

<corroboreecorp@bigpond.com>

The original message has been removed from the bounce message.

Latisha Ryall

From: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
Sent: Thursday, 25 November 2021 9:53 AM
To: David Walker
Subject: Re: please try sending again

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: [0415911159](tel:0415911159)
Ph: [0288244324](tel:0288244324)
E: corroboreecorp@bigpond.com
Address: PO Box 3340
ROUSE HILL NSW 2155

On 24 Nov 2021, at 2:58 pm, admin wrote:

A message was sent to you that was returned to the sender(bounced) because it would have caused your mailbox quota to be exceeded.

The following is the reason that the message was over quota:

Quota Type: bytes in the mailbox
Quota Available: 259.8KB
Total Quota: 10000000.0KB

The following is the information on the message that was bounced:

Sender: David Walker <David.Walker@premise.com.au>
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology
Size: 2622872
Message ID: d618c752-4cda-11ec-ba03-963c85d88f18
Date: Wed Nov 24 14:58:18 2021

Reply-To: [No Reply-To]

The message was bounced from the following folder:

INBOX

To fix this problem, delete some messages from your mailbox, and contact the sender to resend the message.

If the size of the message is too big, contact the sender to reduce the size of the message and resend the message.

Latisha Ryall

From: Latisha Ryall
Sent: Wednesday, 23 March 2022 2:06 PM
To: Latisha Ryall
Subject: FW: [#221106] Marulan Solar Farm - Expression of Interest for Fieldwork at Marulan Solar Farm on behalf of Corroboree Aboriginal Corporation
Attachments: 221106_REP_002A.pdf



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800




POSITION VACANT
TOWN PLANNER
Premise is seeking a Town Planner based in Orange
HR@premise.com.au

APPLY NOW

From: David Walker <David.Walker@premise.com.au>
Sent: Thursday, 25 November 2021 11:17 AM
To: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
Cc: Ben <Ben@ozarkehm.com.au>; Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Expression of Interest for Fieldwork at Marulan Solar Farm on behalf of Corroboree Aboriginal Corporation

Many thanks Marilyn

Your interest has been recorded and you will be contacted in due course.

Please also confirm whether you have any comments on the re-attached site survey addendum methodology.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>

Sent: Thursday, 25 November 2021 11:14 AM

To: David Walker <David.Walker@premise.com.au>

Subject: Re: [#221106] Marulan Solar Farm - Expression of Interest for Fieldwork at Marulan Solar Farm on behalf of Corroboree Aboriginal Corporation

Dear David

Expression of Interest for Fieldwork at Marulan Solar Farm on behalf of Corroboree Aboriginal Corporation Members/RAPS. We are all demonstrated site officers, that have satisfactorily participated in years of archaeological fieldwork, surveys, test pitting, etc, with archaeologists. As such we regard this on field experience as formal qualifications, as we are educated on field.

As Site officers we are always able to:

- Undertake direction from the project archaeologist.
- We can Undertake manual labour over extended periods of time.
- We can use archaeological field tools such as mattocks, shovels, trowels, wheelbarrows, buckets and wet sieving stations.
- We can work in a range of climates wearing protective clothing.
- We can do soil testing
- Recording of field finds and soil compositions.
- We can Work in teams with a wide range of people.
- We can Identify a broad range of Aboriginal objects across the landscape.

As Site Officers we have the appropriate training in identifying Aboriginal objects with the equivalent knowledge and experience from working on field with highly skilled instructors/teachers hired by RMS, WATERNSW, Local Councils, and other proponents.

We can do site surveying, to identify known or potential Aboriginal objects. We can do test pitting.

- Pegging out locations for test pitting.
- Using shovels, brushes and trowels to excavate test pits.
- Relocating excavated materials in buckets or wheel barrows.
- Sieving excavated material.
- Identifying and recording Aboriginal objects.
- Meeting general and site specific Occupational Health and Safety requirements.

We all have cultural knowledge necessary to participate. We have our Cultural heritage, history, stories and knowledge passed down from our elders. Albeit this is not formal, we believe it is the necessary qualifications, requirements for the field surveys and excavations, etc. we also have years of experience on field as a Cultural Heritage Site Officer. As noted I and our Corp members have also worked on field with archaeologists for formal training in the field. And as a Site Officer for Corroboree Aboriginal Corporation I have the knowledge the skills. We have participated in previous archaeological fieldwork with archaeologists as Aboriginal Site Officers with the RMS/TFNSW/Water NSW/ Lithgow, Lidsdale, Wallerawang, Bathurst, Little Hartley, LGA Blacktown, Hawkesbury, Penrith, Katoomba, etc, as such we have untaken direction from project archaeologists on every occasion. I or one of our members attended a vast number of project sites.

Corroboree Aboriginal Corporation worked on projects for over a decade with archeologists, and proponents on projects.

Some of the archaeologist we have consulted with to date:

Dominique Steele
AECOM
Navin Officer
BIOSIS
Artefact
Niche
Environment & Heritage
ECM
Kayandel
EMM GROUP
Niche
Kelleher Nightingale

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: 0415911159
Ph: 0288244324
E: corroboreecorp@bigpond.com
Address: PO Box 3340
ROUSE HILL NSW 2155

On 25 Nov 2021, at 10:40 am, David Walker <David.Walker@premise.com.au> wrote:

Hi Marilyn

Yes, as per the email below, all RAPs are being asked to put forward an expression of interest to be involved in the field work on the week of 20-24 December.

Please respond to myself or Latisha.

kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
Sent: Thursday, 25 November 2021 10:35 AM
To: David Walker <David.Walker@premise.com.au>
Subject: Re: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David
Are we being asked to participate in fieldwork

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: [0415911159](tel:0415911159)
Ph: [0288244324](tel:0288244324)
E: corroboreecorp@bigpond.com
Address: PO Box 3340
ROUSE HILL NSW 2155

On 25 Nov 2021, at 10:28 am, David Walker <David.Walker@premise.com.au>
wrote:

As per the below and attached.



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 24 November 2021 2:58 PM
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

Good afternoon

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We now provide this addendum methodology for your review and comment, in advance of completion of excavation testing on the week starting 20 December 2021. We anticipate field work occurring for a period of 5 days (ie, 20-24 December).

If you have any comments on the draft addendum methodology, please provide these by 15 December 2021 to the undersigned.

We are also seeking expressions of interest from RAPs for involvement in site testing. Please respond to this email address if you would like to put your name forward for involvement in site testing.

Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards

Latisha Ryall

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Wednesday, 24 November 2021 6:31 PM
To: David Walker; HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall; Ben
Subject: Re: [#221106] Marulan Solar Farm - Addendum Methodology

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha

DNC would like to be involved in the testing for the Marulan Solar Farm as we weren't involved in the survey,

We also agree to the proposed methodology for this project

Fully insured and experienced/ vaccinated site officers

Kind regards
Paul Boyd & Lilly Carroll
Directors DNC
0426823944

[Sent from Yahoo Mail for iPhone](#)

On Wednesday, November 24, 2021, 2:59 pm, David Walker <David.Walker@premise.com.au> wrote:

Good afternoon

We previously wrote to you on the 24 August 2021 in relation to the proposed Marulan Solar Farm to provide a draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review.

Site survey was completed on the 28-30 September 2021 and a number of sites identified for further testing.

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We are also seeking expressions of interest from RAPs for involvement in site testing. Please respond to this email address if you would like to put your name forward for involvement in site testing.

Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Sent: Monday, 6 December 2021 12:28 PM
To: Latisha Ryall
Subject: Re: [#221106] RE: Marulan Solar Farm - Addendum Methodology_Yurwang Response

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,

thanks for the reply I'll wait to hear from you guys

Thanks again
Merekai Bell
Yurwang Gundana Cultural Heritage Services

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: 30 November 2021 16:09
To: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Subject: [#221106] RE: Marulan Solar Farm - Addendum Methodology_Yurwang Response

Good afternoon Merekai,

Thank you for your email. We are currently collating expressions of interest from RAPs and liaising with Heritage NSW. We will be in touch with coordination details within the next week or 2.

Kind regards,
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: yurwang gundana <Yurwang.Gundana.C.H.S@outlook.com>
Sent: Monday, 29 November 2021 7:46 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: Marulan Solar Farm - Addendum Methodology

Hi Lastisha

I would like to show interest and register Yurwang Gundana for the test excavation for the Marulan Solar Farm I have people available with white cards and are fully vaccinated

Thanks

Latisha Ryall

From: David Walker
Sent: Wednesday, 1 December 2021 11:52 AM
To: Latisha Ryall; Ben
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology
Attachments: 221106_REP_002A.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

12d Synergy: -1
12d Synergy Job: DATA/Projects/Orange/221106 Marulan Solar Farm
12d Synergy Project: DATA/Projects/Orange/221106 Marulan Solar Farm
12dSynergySendGU: 64aa56d1-c418-4f79-b7f7-a160ee3b74bf

Good afternoon

We wrote to you on the 24 November as set out below.

If you have any comments on the draft addendum methodology, we look forward to receiving them.

Please also confirm if you are interested in taking part in field work. We would like to confirm a roster for work this week.

We look forward to hearing from you.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 24 November 2021 2:58 PM
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

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Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: Robert Young <konanggo_consultancy@hotmail.com>
Sent: Wednesday, 1 December 2021 3:25 PM
To: David Walker; Latisha Ryall; Ben
Subject: Re: [#221106] Marulan Solar Farm - Addendum Methodology

Follow Up Flag: Follow up
Flag Status: Flagged

Hi David,

Hope your well and thank you for the email

I accessed the methodology that has been recommended and agree with the process

I'd like to be involved in the project

Yours in culture

Robert Young

Principal Consultant

Konanggo Aboriginal Cultural Heritage Services

2/42 Crawford Road, Brighton Le Sands 2216 NSW

Email: konanggo_consultancy@hotmail.com

Phone: 0450-497-270

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 1 December 2021 11:52 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Good afternoon

We wrote to you on the 24 November as set out below.

If you have any comments on the draft addendum methodology, we look forward to receiving them.

Please also confirm if you are interested in taking part in field work. We would like to confirm a roster for work this week.

We look forward to hearing from you.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057



E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 24 November 2021 2:58 PM
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

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Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: Ngunawal Heritage Aboriginal Corporation <ngunawalhac@gmail.com>
Sent: Wednesday, 1 December 2021 1:21 PM
To: David Walker
Cc: Latisha Ryall; Ben
Subject: Re: [#221106] Marulan Solar Farm - Addendum Methodology

Follow Up Flag: Follow up
Flag Status: Flagged

Hi David,

Thank you for providing us with a copy of the draft assessment methodology.

We agree with the methodology and our preference would be for any cultural material to be reburied on site in a suitable location which would not be impacted by any future development.

We would also like to confirm our interest in taking part in the field work.

We look forward to working with you on this project. If you require any further information please let us know.

Kind Regards

Dean Delponte
Director
0413186133
ngunawalhac@gmail.com

Ngunawal Heritage Aboriginal Corporation



IMPORTANT: The contents of this email and any attachments are confidential. They are intended for the named recipient(s) only. If you have received this email by mistake, please notify the sender immediately and do not disclose the contents to anyone or make copies thereof.

On Wed, Dec 1, 2021 at 11:53 AM David Walker <David.Walker@premise.com.au> wrote:

Good afternoon

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If you have any comments on the draft addendum methodology, we look forward to receiving them.

Please also confirm if you are interested in taking part in field work. We would like to confirm a roster for work this week.

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Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



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To: HERITAGEMailbox@environment.nsw.gov.au
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Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: Latisha Ryall
Sent: Wednesday, 23 March 2022 2:29 PM
To: Latisha Ryall
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800

A banner for a job advertisement. It features the Premise logo and the text "POSITION VACANT TOWN PLANNER". Below this, it says "Premise is seeking a Town Planner based in Orange" and "HR@premise.com.au". A red button with the text "APPLY NOW" is at the bottom. The background of the banner shows a row of office chairs and a desk with a glass of water and pens.

From: David Walker <David.Walker@premise.com.au>
Sent: Monday, 6 December 2021 10:57 AM
To: Ben <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: Fw: [#221106] Marulan Solar Farm - Addendum Methodology

Hi Ben

See below.

Can we catch up at some point today to discuss the roster? I still haven't heard back from the LALC.

Cheers,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800





Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: Duncan Falk <DuncanFalk@hotmail.com>
Sent: Sunday, 5 December 2021 5:32 PM
To: David Walker <David.Walker@premise.com.au>
Subject: Re: [#221106] Marulan Solar Farm - Addendum Methodology

Hey David,

I have read over the provided document and have the following recommendations.

We could bench the test pits if they are over a certain depth to make it safe to excavate at a greater depth and to properly sample the area, therefore, collecting all necessary data.

Unless the soil is very damp and cannot be sieved through the 2.5-3.5 mm sieve, the 6-8 mm sieve should not be utilised as there is a higher chance for small debitage to be lost.

Besides those two points, I have no issue with the rest of the document.

I would also like to express my interest in attending the fieldwork and am fine with signing the stated documents regarding fitness.

With thanks,

Duncan

Duncan Falk

Owner

Duncan Falk Consultancy



Duncan Falk Consultancy

T +61 406 610 644
duncanfalk@hotmail.com

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 1 December 2021 11:52 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

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We look forward to hearing from you.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

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E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 24 November 2021 2:58 PM
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

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Please contact David Walker or Latisha Ryall of Premise with any questions.



DAVID WALKER
Town Planning Discipline Lead

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E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



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From: j.gordon@bigpond.net.au <j.gordon@bigpond.net.au>
Sent: Monday, 6 December 2021 7:38 AM
To: David Walker <David.Walker@premise.com.au>; HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; 'Ben' <Ben@ozarkehm.com.au>; 'Mulwaree Aboriginal Community' <mulwareeaboriginalcommunity@gmail.com>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Good morning David,
Thank you for keeping Mulwaree Aboriginal Community Inc informed re this proposal. We will discuss this at our December meeting later today and provide a response in the next 2 days.

Djan Yimaba Yarra
(Thank you and bye in Ngunnawal language)
Jennie Gordon
Public Officer and Secretary
Mulwaree Aboriginal Community Inc
0408788391
mulwareeaboriginalcommunity@gmail.com
and cc to
j.gordon@bigpond.net.au

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 24 November 2021 2:58 PM
To: HERITAGEMailbox@environment.nsw.gov.au
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
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Please contact David Walker or Latisha Ryall of Premise with any questions.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: David Walker
Sent: Wednesday, 23 March 2022 12:23 PM
To: Latisha Ryall
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology

Follow Up Flag: Follow up
Flag Status: Flagged

4



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800

A banner for a job advertisement. On the left, the Premise logo is above the text "POSITION VACANT TOWN PLANNER". Below this, it says "Premise is seeking a Town Planner based in Orange" and "HR@premise.com.au". A red button with the text "APPLY NOW" is at the bottom left. The background of the banner shows a row of office chairs and a desk with a glass of water and pens.

From: David Walker <David.Walker@premise.com.au>
Sent: Monday, 6 December 2021 5:31 PM
To: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi Ryan

Yes, the plan remains to complete field work the week starting the 20th.

We aim to get this finalised in the next few days.

I'll keep you informed.

Cheers,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Monday, 6 December 2021 4:45 PM
To: David Walker <David.Walker@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm - Addendum Methodology

Hi David,
Is the fieldwork still starting on the 20th December.
Thanks
Ryan
0475565517

On Monday, 6 December 2021, 04:21:35 pm AEDT, David Walker <david.walker@premise.com.au> wrote:

Good afternoon

Further to our email below, we wanted to take the opportunity to provide you and your group with details of the current community engagement that is taking place with respect to the proposed Marulan Solar Farm.

As you may be aware from your involvement with the project to date, the EIS is anticipated to be submitted to the NSW Government in early 2022 for review and assessment. At that point in time, it will also be put out for public consultation by the Department of Planning, Industry and Environment. Subject to approvals, Terrain Solar hopes to deliver the project by the end of 2023 / early 2024.

As part of the early planning process, Terrain Solar are hosting two online Community Information Sessions aimed at informing the community about the project. The details of these are below:

- Tuesday 7 December, 1pm – 2pm / register via <https://bit.ly/3d1N6xr>
- Wednesday 15 December, 6pm – 7pm / register via <https://bit.ly/3d4IkiN>

Latisha Ryall

From: Robert Young <konanggo_consultancy@hotmail.com>
Sent: Wednesday, 8 December 2021 4:42 PM
To: David Walker; Ben
Cc: Latisha Ryall
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

Hope your all well and thank you for the email and the roster

I will attend the days KACHS is rostered on and if any consultancy is unavailable, I am happy to accommodate and fill in

Yours in Culture,
Robert Young
Principal Consultant
Konanggo Aboriginal Cultural Heritage Services
2/42 Crawford Road, Brighton Le Sands 2216 NSW
Email: konanggo_consultancy@hotmail.com
Phone: 0450-497-270

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 8 December 2021 4:24 PM
To: Ben <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: [#221106] Marulan Solar Farm test excavation survey roster

Good afternoon

Thank you for your expression of interest to take part in the site testing for the Marulan Solar Farm between the 20-24 December.

Please see the attached draft roster.

We ask that each organisation make one person available for each of their rostered days. Further details will be provided in due course with respect to necessary equipment, timing each day and meeting locations.

Please contact us if you have any comments on this.

Kind regards

Community Engagement emails

Latisha Ryall

From: David Walker
Sent: Wednesday, 23 March 2022 2:39 PM
To: Latisha Ryall
Subject: FW: [#221106] Marulan Solar Farm - Addendum Methodology



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800

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POSITION VACANT
TOWN PLANNER
Premise is seeking a Town Planner based in Orange
HR@premise.com.au
APPLY NOW

From: David Walker <David.Walker@premise.com.au>
Sent: Monday, 6 December 2021 4:21 PM
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Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
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Due to COVID-19 restrictions, these events will be held online via Zoom. We have designed the sessions to ensure attendees will have an opportunity to speak to the team, ask questions, and find out more information. If you would like to attend either of these sessions, please register at the above links.

Whilst we will continue to engage you with via the ACHA process, we also wanted to offer the opportunity to attend one of these sessions alongside other community groups and interested local residents.

If you would like to attend one of the upcoming Community Information Sessions but are unable to, our team is still available to answer any questions you might have, so please get in touch via email: info@marulansolarfarm.com.au, or by phone: 1800 749 232 (or by return email).

Further information about the project is available via the linked Community Information Newsletter: https://www.marulansolarfarm.com.au/wp-content/uploads/2021/11/WSP_TerrainSolar_Marulan_A4-CommunityNewsletter_v06.pdf

We will undertake further engagement activities with the local community and local landholders throughout 2022 and we look forward to speaking with you about this proposal and hearing your feedback.

Kind regards,
David Walker
On behalf of Tom Allen
Terrain Solar Project Development Manager



DAVID WALKER
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To: David Walker
Cc: Latisha Ryall; Ben
Subject: Re: [#221106] Marulan Solar Farm - Addendum Methodology

Follow Up Flag: Follow up
Flag Status: Completed

Hi David,

Thank you for the email and invite

I did register for the online Community Information Session on Wednesday 15th December, 6pm - 7pm

Yours in Culture,
Robert Young
Principal Consultant
Konanggo Aboriginal Cultural Heritage Services
2/42 Crawford Road, Brighton Le Sands 2216 NSW
Email: konanggo_consultancy@hotmail.com
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Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



December Test Excavation Roster

Latisha Ryall

From: David Walker
Sent: Wednesday, 8 December 2021 4:24 PM
To: Ben
Cc: Latisha Ryall
Subject: [#221106] Marulan Solar Farm test excavation survey roster
Attachments: 221106_roster.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon

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Please see the attached draft roster.

We ask that each organisation make one person available for each of their rostered days. Further details will be provided in due course with respect to necessary equipment, timing each day and meeting locations.

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Premise

DAVID WALKER
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Marulan Solar Farm Sub Surface Testing roster

Monday 20/12	Tuesday 21/12	Wednesday 22/12	Thursday 23/12	Friday 24/12
Murra Bidgee Mullangari Aboriginal Corporation	Murra Bidgee Mullangari Aboriginal Corporation	Pejar Local Aboriginal Land Council	Pejar Local Aboriginal Land Council	Pejar Local Aboriginal Land Council
Merrigarn Indigenous Corporation	Merrigarn Indigenous Corporation	Didge Ngunawal Clan	Didge Ngunawal Clan	Didge Ngunawal Clan
Muragadi Heritage Indigenous Corporation	Muragadi Heritage Indigenous Corporation	Corroboree Aboriginal Corporation	Corroboree Aboriginal Corporation	Corroboree Aboriginal Corporation
Freeman&marx Pty Ltd	Freeman&marx Pty Ltd	Yurwang Gundana Cultural Heritage Services	Yurwang Gundana Cultural Heritage Services	Yurwang Gundana Cultural Heritage Services
Ngunawal Heritage Aboriginal Corporation	Ngunawal Heritage Aboriginal Corporation	Duncan Falk Consultancy	Konanggo Aboriginal Cultural Heritage Services	Konanggo Aboriginal Cultural Heritage Services

Latisha Ryall

From: David Walker
Sent: Wednesday, 15 December 2021 11:12 AM
To: pejar1@bigpond.com
Cc: Ben; Latisha Ryall
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks Delise

In short, we definitely want the Pejar LALC to remain involved with the project and to be involved with the additional site survey. As you would be aware, we cannot exclude parties from registering on the project; that is simply a reflection of the current ACHA system.

The involvement of parties with the site survey component of the project doesn't affect the obligations or responsibilities around consultation, and the two issues should not be confused.

I'll aim to call you at 2pm to discuss.

Kind regards,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: pejar1@bigpond.com <pejar1@bigpond.com>
Sent: Wednesday, 15 December 2021 11:08 AM
To: David Walker <David.Walker@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Morning David

My apologies for not getting back to you sooner. I was in a meeting all afternoon.

I am available after lunch if you wanted to have a chat.

Kind regards

Delise Freeman
CEO
Pejar Local Aboriginal Land Council
80 Combermere Street or
PO Box 289
Goulburn NSW 2580
0417254813 (mobile)
02 - 48223552 (phone)

From: David Walker <David.Walker@premise.com.au>
Sent: Tuesday, 14 December 2021 3:50 PM
To: Pejar LALC <pejar1@bigpond.com>; 'Ben' <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Hi Delise

I'd like to have a chat to you about this today if possible. Are you available this afternoon for a chat, and whats the best number to get you on?

Cheers,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



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From: Pejar LALC <pejar1@bigpond.com>
Sent: Tuesday, 14 December 2021 2:19 PM
To: David Walker <David.Walker@premise.com.au>; 'Ben' <Ben@ozarkehm.com.au>

Cc: Latisha Ryall <latisha.ryall@premise.com.au>

Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Afternoon David

Further to my recent emails. I am concerned that our opinions are not listened to when it comes to Freeman and Marx P/L. We do not work with them as they do not hold Cultural Knowledge for this area or in fact even the Marulan area.

I am well aware of the Consultation requirements when it comes to working onsite and who is involved in the works. I am just not sure how we are going to be able to comment on any of the reports etc if we aren't involved and if we are replaced, how is this helping the proponent, isn't it them who decides who is part of the working groups and not the Archaeologists, isn't the LALC supposed to be fully involved as per the guidelines and do our concerns not matter.

I would also like to contact details of the proponent.

I am available to discuss further if you wish to do so.

Kind regards

Delise Freeman
CEO
Pejar LALC

From: David Walker <David.Walker@premise.com.au>

Sent: Friday, 10 December 2021 2:35 PM

To: pejar1@bigpond.com; 'Ben' <Ben@ozarkehm.com.au>

Cc: Latisha Ryall <latisha.ryall@premise.com.au>

Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Hi Delice

Apologies for not responding more fully.

It is the discretion of the project to decide who to employ for the provision of services.

Kind regards,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800





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From: pejar1@bigpond.com <pejar1@bigpond.com>
Sent: Friday, 10 December 2021 2:11 PM
To: David Walker <David.Walker@premise.com.au>; 'Ben' <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

You have not answered my concerns?

Why have you included Freeman and Marx in the fieldwork when they do not hold cultural Knowledge of the area???

From: David Walker <David.Walker@premise.com.au>
Sent: Friday, 10 December 2021 12:30 PM
To: pejar1@bigpond.com; 'Ben' <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

Thanks Delise

Apologies that the timing is not ideal. We did advise the proposed timing via email on 24 November, when we provided the addendum methodology and asked for expressions of interest in taking part, so this is not last minute advice.

Please advise ASAP if you like to take part in the survey testing, as if you are not available, we will need to re-allocate the assigned LALC days to other RAPs.

Kind regards,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800





Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: pejar1@bigpond.com <pejar1@bigpond.com>
Sent: Friday, 10 December 2021 8:58 AM
To: David Walker <David.Walker@premise.com.au>; 'Ben' <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

I am so disappointed in the fact that you have Freeman and Marx included in the fieldwork. They do not have cultural knowledge of the area and therefore should not be involved.

I would also like to point out that we are closed from Friday the 17 December and should have been given more notice or at least consulted with to when these works would be happening. However, I will try and have someone available if this is possible.

Kind regards

Delise

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 8 December 2021 4:24 PM
To: Ben <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: [#221106] Marulan Solar Farm test excavation survey roster

Good afternoon

Thank you for your expression of interest to take part in the site testing for the Marulan Solar Farm between the 20-24 December.

Please see the attached draft roster.

We ask that each organisation make one person available for each of their rostered days. Further details will be provided in due course with respect to necessary equipment, timing each day and meeting locations.

Please contact us if you have any comments on this.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: David Walker
Sent: Monday, 13 December 2021 3:08 PM
To: pejar1@bigpond.com; 'Ben'
Cc: Latisha Ryall
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster
Attachments: 221106_roster.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

12d Synergy: -1
12d Synergy Job: DATA/Projects/Orange/221106 Marulan Solar Farm
12d Synergy Project: DATA/Projects/Orange/221106 Marulan Solar Farm
12dSynergySendGU: 0d5bb623-8725-4e50-be90-e1073e27267e

Hi Delise

Can you advise if you will have someone available for the rostered dates? If not, we will need to reallocate to other parties to ensure that there are sufficient people on site to get through the work.

Your advice would be appreciated.

Kind regards,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



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From: pejar1@bigpond.com <pejar1@bigpond.com>
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Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: [#221106] Marulan Solar Farm test excavation survey roster

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Cc: Latisha Ryall <latisha.ryall@premise.com.au>
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Please contact us if you have any comments on this.

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



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Latisha Ryall

From: Latisha Ryall
Sent: Monday, 20 December 2021 7:59 AM
To: David Walker; Ben
Subject: FW: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology
Attachments: 221106_Draft ACHAR_Methodology_001D.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good Morning Dave and Ben

Can you send me an email of the meeting point for the days or send onto Marilyn for me? I assume it would be at the Lockyersleigh homestead?

Thanks

Tish



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
Sent: Friday, 17 December 2021 6:21 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: Re: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Hi Latisha

I can't find a meeting point and contact details for the days.

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: [0415911159](tel:0415911159)
Ph: [0288244324](tel:0288244324)

E: corroboreecorp@bigpond.com

Address: PO Box 3340

ROUSE HILL NSW 2155

On 24 Aug 2021, at 3:06 pm, Latisha Ryall <latisha.ryall@premise.com.au> wrote:

Good afternoon

Thank you for registering as a stakeholder for the proposed Marulan Solar Farm project. I have attached a Draft copy of the proposed Aboriginal Cultural Heritage Assessment and Survey methodology for your review. If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR If you have any questions about the proposed survey OR if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall

Archaeologist

Premise Australia Pty Ltd

latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741

E latisha.ryall@premise.com.au

A 154 Peisley St, Orange 2800

Latisha Ryall

From: David Walker
Sent: Monday, 20 December 2021 10:41 AM
To: Ben; Latisha Ryall
Subject: RE: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology [#221106]

Follow Up Flag: Follow up
Flag Status: Flagged

Ben

I had a call from an anonymous person this morning complaining that there are white people working for Murra Bidgee Aboriginal Corporation. He said he had spoken to the LALC and they are 'unhappy about whats happening down there'.

He wanted to know what we were going to do about it.

I said I would discuss with you. Let me know if you want me to do anything.

It's being put into the log this morning.

I'll try and ring Delise again this morning

Cheers,



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: Ben <Ben@ozarkehm.com.au>
Sent: Monday, 20 December 2021 9:56 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>; David Walker <David.Walker@premise.com.au>
Subject: Re: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Yes, when we have new groups I'll meet them at the entrance on Carrick Rd. We gave them the wrong st address this morning. I should have noted what it was but it's like 1100 Carrick Rd.

Regards,

Ben Churcher
Principal Archaeologist. OzArk Environment & Heritage.
0416 009 910


From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Monday, December 20, 2021 7:59:07 AM
To: David Walker <David.Walker@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Good Morning Dave and Ben

Can you send me an email of the meeting point for the days or send onto Marilyn for me? I assume it would be a the Lockyersleigh homestead?

Thanks

Tish


LATISHA RYALL
Archaeologist
Premise T 02 6393 5000 | M 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Merry Christmas
and Happy New Year 

Our offices will be closed from December 24th 2021 and will reopen on 10th January 2022. We wish you all a wonderful festive season and look forward to continuing working with you in 2022

From: Corroboree Aboriginal Corporation <corroboreecorp@bigpond.com>
Sent: Friday, 17 December 2021 6:21 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: Re: 221106_Marulan Solar Farm_Proposed ACHAR and Survey Methodology

Hi Latisha
I can't find a meeting point and contact details for the days.

Kind regards
Marilyn Carroll-Johnson
Director
Corroboree Aboriginal Corporation
Mob: [0415911159](tel:0415911159)
Ph: [0288244324](tel:0288244324)
E: corroboreecorp@bigpond.com
Address: PO Box 3340
ROUSE HILL NSW 2155

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Latisha Ryall
Archaeologist
Premise Australia Pty Ltd
latisha.ryall@premise.com.au or via phone 02 6393 5000

In your response, please consider the following points:

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- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Wednesday, 8 December 2021 4:29 PM
To: David Walker; Ben
Cc: Latisha Ryall
Subject: Re: [#221106] Marulan Solar Farm test excavation survey roster

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks David, can you plz send me meeting place and is there anything else you need from us

[Sent from Yahoo Mail for iPhone](#)

On Wednesday, December 8, 2021, 4:24 pm, David Walker <David.Walker@premise.com.au> wrote:

Good afternoon

Thank you for your expression of interest to take part in the site testing for the Marulan Solar Farm between the 20-24 December.

Please see the attached draft roster.

We ask that each organisation make one person available for each of their rostered days. Further details will be provided in due course with respect to necessary equipment, timing each day and meeting locations.

Please contact us if you have any comments on this.

Kind regards



DAVID WALKER
Town Planning Discipline Lead


T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



Latisha Ryall

From: David Walker
Sent: Tuesday, 8 February 2022 3:12 PM
To: Ben
Cc: Latisha Ryall
Subject: FW: Complaint

FYI



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



POSITION VACANT
TOWN PLANNER

Premise is seeking a Town Planner based in Orange
HR@premise.com.au

APPLY NOW

From: Tom <tom@terrainsolar.com>
Sent: Tuesday, 8 February 2022 3:08 PM
To: David Walker <David.Walker@premise.com.au>
Subject: Re: Complaint

FYI - Ill give her a call



Tom Allen
Project Development Manager
Terrain Solar Pty Ltd
M: +61 (0) 400 079 641
E: tom@terrainsolar.com

On Tue, Feb 8, 2022 at 10:31 AM Delise Freeman <pejar1@bigpond.com> wrote:

Good morning Tom

I have been very bust the last few weeks and have not been able to contact you with regards to some very strong concerns that we have with a consultant that you have engaged.

We are at the moment involved in a solar project at Marulan. We have been in contact with a Mr David Walker from Premise who has been nothing but rude and insensitive to our concerns.

I have on a number of occasions asked to speak with him regarding a group that he had onsite that have no association with the area yet he refuse to listen to our concerns, I ahd asked him for your contact details prior to any onsite works and was only given them after work had commenced, which I felt should not have been done, we should have been given your details prior to this to air our concerns.

I would like to speak with you to discuss this as we feel that we are not listened to.

Kind regards

Delise Freeman

CEO

Pejar Local Aboriginal Land Council

0417254813 (mobile)

02 - 48223552 (Telephone)

02 - 48223551 (Fax)

PO Box 289 or

80 Combermere St

Goulburn NSW 2580

Latisha Ryall

From: Duncan Falk <DuncanFalk@hotmail.com>
Sent: Sunday, 19 December 2021 6:53 PM
To: David Walker; Ben
Cc: Latisha Ryall
Subject: Re: [#221106] Marulan Solar Farm test excavation survey roster

Follow Up Flag: Follow up
Flag Status: Flagged

Hey David, Ben and Latisha,

Thank you for the email, as per our phone call on Friday I am available for Wednesday and any other days you need me to fill in for.

Has the client stipulated any rate for this project or is it up to the RAPs?

With thanks,

Duncan

Duncan Falk

Owner

Duncan Falk Consultancy



Duncan Falk Consultancy

T +61 406 610 644

duncanfalk@hotmail.com

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 8 December 2021 4:24 PM
To: Ben <Ben@ozarkehm.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: [#221106] Marulan Solar Farm test excavation survey roster

Good afternoon

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Please see the attached draft roster.

We ask that each organisation make one person available for each of their rostered days. Further details will be provided in due course with respect to necessary equipment, timing each day and meeting locations.

Please contact us if you have any comments on this.

Kind regards

Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 31 March 2022 1:21 PM
To: Latisha Ryall
Cc: Ben; David Walker
Subject: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon

Please find below a link to the draft ACHAR for the proposed Marulan Solar Farm for review and comment.

<https://files.premise.com.au/12dSynergy/Publishing/d21f0f6f-2e8c-46f1-bb52-82633a038649>

As per Stage 4 of the *Aboriginal cultural heritage consultation requirements for proponents* (2010), a 28 day review period is provided.

Please provide any comments in writing by **Thursday 28 April 2022**.

Please let me know if you have any questions regarding the assessment.

Kind Regards,

Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800





POSITION VACANT
TOWN PLANNER

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HR@premise.com.au

APPLY NOW



Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 31 March 2022 2:53 PM
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Please provide any comments in writing by **Thursday 28 April 2022**.

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Kind Regards,

Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800





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APPLY NOW



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 31 March 2022 2:58 PM
To: walbell@bigpond.net.au
Subject: FW: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon

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T 02 6393 5000 | **M** 0429 777 741
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A 154 Peisley St, Orange 2800





POSITION VACANT
TOWN PLANNER

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HR@premise.com.au

APPLY NOW

A background image showing a row of modern office chairs in a conference room, with a glass of water and pens on a table in the foreground.

LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: Latisha Ryall
Sent: Thursday, 31 March 2022 3:04 PM
To: wally@buru-ngunawal.com
Subject: FW: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon Wally

I hope this email finds you well.

Please see email below regarding review of the draft ACHAR for the Marulan Solar Farm Project. I have also left a message for you confirming if we have the correct details.

We received a bounce back from the bigpond email address.

Please call me with any queries.

Kind regards

From: Latisha Ryall
Sent: Thursday, 31 March 2022 2:58 PM
To: walbell@bigpond.net.au
Subject: FW: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon

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Kind Regards,

Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Latisha Ryall

From: Latisha Ryall
Sent: Tuesday, 26 April 2022 9:48 AM
To: Latisha Ryall
Cc: David Walker; Ben
Subject: FW: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good Morning

This is a friendly reminder that comments for the draft ACHAR for the proposed Marulan Solar Farm are due on the **28 April 2022**.

We would welcome any comments in advance of this date.

Please do not hesitate to contact us if you have any problems downloading the project document or have any questions.

Kind regards
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800




POSITION VACANT
TOWN PLANNER
Premise is seeking a Town Planner based in Orange
HR@premise.com.au

APPLY NOW

From: David Walker <David.Walker@premise.com.au>
Sent: Wednesday, 13 April 2022 2:27 PM
To: David Walker <David.Walker@premise.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon

This is a friendly reminder that comments for the draft ACHAR for the proposed Marulan Solar Farm are due on the **28 April 2022**.

We would welcome any comments in advance of this date.

Please do not hesitate to contact us if you have any problems downloading the project document or have any questions

Kind regards



DAVID WALKER
Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800



From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Thursday, 31 March 2022 1:21 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Cc: Ben <Ben@ozarkehm.com.au>; David Walker <David.Walker@premise.com.au>
Subject: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon

Please find below a link to the draft ACHAR for the proposed Marulan Solar Farm for review and comment.

<https://files.premise.com.au/12dSynergy/Publishing/d21f0f6f-2e8c-46f1-bb52-82633a038649>

As per Stage 4 of the *Aboriginal cultural heritage consultation requirements for proponents* (2010), a 28 day review period is provided.

Please provide any comments in writing by **Thursday 28 April 2022**.

Please let me know if you have any questions regarding the assessment.

Kind Regards,

Latisha

Latisha Ryall

From: Ngunawal Heritage Aboriginal Corporation <ngunawalhac@gmail.com>
Sent: Friday, 22 April 2022 11:03 AM
To: Latisha Ryall
Cc: David Walker
Subject: Re: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha,

Thank you for providing us with a draft copy of the Marulan Solar Farm Aboriginal Cultural Heritage Assessment Report (ACHAR).

The recommendations outlined in the ACHAR in our opinion provide sufficient management strategies for this project area and we would expect that they be fully implemented when required by the proponent (Terrain Solar).

With regards to AHIMS # 51-6-0364 we do strongly support the avoidance of this site and would welcome for the LEP exclusion zone to be extended.

Our preference is for any cultural material to be reburied on site in a suitable location which would not be impacted by any future development.

Terrain Solar should also provide Aboriginal Cultural Heritage Awareness Training to all personnel involved in construction works prior to commencement.

We would like to thank Premise for consulting with Ngunawal Heritage Aboriginal Corporation regarding the Marulan Solar Farm Aboriginal Cultural Heritage Assessment. We acknowledge that we have been consulted throughout this project and are pleased with the consultation process that was provided.

Kind Regards

Dean Delponte
Director
0413186133
ngunawalhac@gmail.com



IMPORTANT: The contents of this email and any attachments are confidential. They are intended for the named recipient(s) only. If you have received this email by mistake, please notify the sender immediately and do not disclose the contents to anyone or make copies thereof.

On Thu, Mar 31, 2022 at 1:22 PM Latisha Ryall <latisha.ryall@premise.com.au> wrote:

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<https://files.premise.com.au/12dSynergy/Publishing/d21f0f6f-2e8c-46f1-bb52-82633a038649>

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Please let me know if you have any questions regarding the assessment.

Kind Regards,

Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800





POSITION VACANT
TOWN PLANNER

Premise is seeking a Town Planner based in Orange
HR@premise.com.au

APPLY NOW



Latisha Ryall

From: jenniegordon59@outlook.com
Sent: Thursday, 28 April 2022 12:07 PM
To: Latisha Ryall
Cc: David Walker; Ben; j.gordon@bigpond.net.au
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm
Attachments: South East and Riverine Song Lines defined - AIATSIS map.jpg; 31 May and 17 June 1828 Kangaroo Song Mitchell Jennie Gordon share 23 May 2021.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning Latisha,
It was lovely to speak to you this morning, the following information is about the songlines for the area.

The land is in the area traditionally known as the more southern reaches of Gundungarra Country and in the shared country region with Ngunnawal people. Most importantly the land sits on songlines of our Aboriginal people, with the best example being provided by the explorer Mitchell and shared in attached (31 May and 17 June 1828 Kangaroo Song Mitchell) As representatives of the community, this is important information and should be taken into account. Its also on the pathway from the Wollondilly (Wallandilli) river, along Narumbulla creek to the southern areas around present day Bungonia on the Shoalhaven. That pathway also leads to the ceremonial places further south including Nadgigomar.

Please see the attached recorded history from Mitchell's journals dated 31 May and 17 June 1828 (event) near Goulburn and Towrang, NSW In this case Towrang would be the Mountain, also know as Tongobidia. We know that Moyengully is the king of the Nattai (Gundungarra) and he has two younger fellows with him

- INDIGENOUS (young men in Moyengully's band)
- MOYENGULLY (singer)
- PRIMBRUBNA (singer)

Djan Yimaba Yarra
(Thank you and bye in Ngunnawal language)
Jennie Gordon
Public Officer and Secretary
Mulwaree Aboriginal Community Inc
0408788391
mulwareeaboriginalcommunity@gmail.com
and cc to
j.gordon@bigpond.net.au

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 27 April 2022 10:23 AM
To: jenniegordon59@outlook.com
Cc: David Walker <David.Walker@premise.com.au>; Ben <Ben@ozarkehm.com.au>; j.gordon@bigpond.net.au
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good Morning Jennie

Thank you for your detailed response, I will review the comments today regarding the background history in consideration of amendment to the report and I note that that Mulwaree Aboriginal Community Inc agree to the recommendations documented in the Aboriginal Heritage management and mitigation measures for the proposed works.

Kind regards,
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



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HR@premise.com.au

APPLY NOW

From: jenniegordon59@outlook.com <jenniegordon59@outlook.com>

Sent: Tuesday, 26 April 2022 11:56 PM

To: Latisha Ryall <latisha.ryall@premise.com.au>

Cc: David Walker <David.Walker@premise.com.au>; Ben <Ben@ozarkehm.com.au>; j.gordon@bigpond.net.au

Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Importance: High

Hi Latisha, David and Ben

Thanks you for the opportunity to respond to the ACHAR for Marulan Solar Farm and apologies for the late response. Please note that the preferred spelling for Gundungurra is with all U's in this region.

1. I have had suggestion from Executive members of Mulwaree Aboriginal Community Inc (MACI) that the online link to the HOLCIM file for OLD Marulan to be forwarded to Premise re the Carrick Rd Solar Farm: OLD MARULAN 2007 – FINAL REPORT – VOLUME 2 (holcim.com.au)

<https://www.holcim.com.au/sites/australia/files/atoms/files/lynwood-oldmarulan2007-v2.pdf>

This is very important to our community and members as the amount of referencing and evidence of our old people and their lifestyles, names and events including ongoing connection to Country during and after colonisation is readily accessible. Pages 28 – 64 provides evidence of people/ names places and events which are important to the history of the region between Marulan, Goulburn and surrounds. Page 58 “*Early Land grants of County Argyle*” also maps and shows the area that the proposed Carrick Solar Farm is to be located with Mt Towrang, Mt Marulan and Narrangarill as obvious landforms in the map.

2. The quality of the research for the Premise document to date needs to have a lots more information and evidence e.g. At 3.7

“A report prepared by Australian Museum Business Services (AMBS) identified that the Narambulla Creek was a massacre site (AMBS 2012:30) however no further information could be obtained on where or when this event occurred. During the site survey and test excavation program, no evidence of this type of event was recorded.

It is noted that in respecting the Aboriginal community not all cultural heritage sites should be mapped or

Identified”

This statement re the massacre at Narrumbulla Creek is first noted in the attached Goulburn Mulwaree Council Aboriginal Heritage Study January 2012 and is clearly stated and connected to one person in the 2012 stakeholder group. There is no evidence / knowledge of any such massacre in local Traditional Custodian knowledge and no reference to any massacre on the University of Newcastle Australian Aboriginal Massacres website at the following link:

<https://c21ch.newcastle.edu.au/colonialmassacres/map.php>

3. The following paragraph on page 15 is particularly offensive to the Traditional People of Goulburn and Marulan area and should be removed and replaced with statements which are able to be substantiated from the Goulburn Mulwaree Council Aboriginal Heritage Study 2012” or the Early Marulan Lynwood study in the case of Marulan. **Note this is not and never has been Wiradjuri land- the closest link you will get is the NSW Land Council Region is known as Wiradjuri Region, similar to the Health Department Region is Southern NSW Region.**

“The nearby area of Goulburn was considered a significant meeting place acting as a crossroads between Albury, Bathurst and the Nepean River. During this time Marulan was a crossover point and meeting place of Gundungurra, Wodi Wodi, Wiradjuri and Dharawal Aboriginal peoples. The nearby plains and the Wollondilly River also provided native game and fish for a number of the traditional Aboriginal peoples. Large gatherings of Aboriginal people took place in Goulburn, with records of corroborees being held at Rocky Hill, on the Wollondilly River, the Mulwaree Flats and the site where the Goulburn rail station is located now (Pejar River Connections). Ceremonies also took place on the eastern side of Goulburn close to the Wollondilly River.”

4. In addition the reference to page 15 is also challenged by the Early Marulan documentation where travel up and down to the coast from the Marulan / Bungonia area to Nowra / Shoalhaven is well described as difficult terrain even on foot:

“It is likely that these tribal boundaries incorporated a number of distinct Aboriginal communities with their own dialects, who were probably linked by kinship networks, common beliefs, ceremonies and customs. The absence of physical boundaries in the region allowed for easy travel amongst groups.”

The language and context which you have been provided is obviously the language of the local Pejar LALC and as identified Wiradjuri Yuin people they are not and do not represent the Traditional Custodian Groups of this region.

5. Reference should be made to the Goulburn Mulwaree Council Aboriginal Heritage Study 2012 which demonstrates Goulburn was far more than a “meeting place acting as a cross roads” . There is further documentation in the Goulburn Mulwaree Council Heritage Review 2018 which has multiple section about our Aboriginal History available at the following link:

<https://www.goulburn.nsw.gov.au/Development/Environment-Heritage/Heritage#section-9>

- Scroll halfway down the page and you will find this;
- The Heritage Study Review is available via the link below:
- Goulburn Mulwaree Heritage Study Review Click Here(PDF, 8MB)

6. Could you please provide detail re: “Pejar River Connections” which is used through out the history part of your document? Our region has a Pejar Creek and a Pejar Dam but no Pejar River.
7. The story of The story of Gurangatch and Mirrigan is a dreamtime story from the Burraborang Valley, lower sections of the Wollondilly where the river is deep and has big water holes, reaching Guinacor (near Taralga NSW) and going to Jenolan Caves and then westward via the Cocks River system.....
“ The Story of Gurangatch and Mirrigan. When visiting the Burraborang Valley in 1900-1901, R.H. Mathews, the ethnographer and surveyor, met with Gundungurra people, and recorded their creation story of the rivers in the area. The legend was first published in 1908, in a German anthropological journal.”
<https://www.jenolancaves.org.au/about/aboriginal-culture/dreamtime-story-of-gurangatch-mirrigan/#:~:text=The%20Story%20of%20Gurangatch%20and,in%20a%20German%20anthropological%20journal.>

Please use caution when making statements like: "The story, as believed, happened in a time when animals were humans" there is a big difference in a human versus a "Dreamtime Spirit" e.g. "Gu-rang-atch was one of the Burringilling - Dreamtime spirits. His form was partly fish and partly reptile."

Having read the Premise proposal we request that the Aboriginal History of the area/ region is corrected to reflect the known and evidenced Aboriginal history. WE are aware that the site is within the songlines from north to south ceremonial sites and there are early colonial records of "Kangaroo song" being used within this region for travel purposes.

Mulwaree Aboriginal Community Inc agree to the recommendations documented in the Aboriginal Heritage management and mitigation measures for the proposed works.

In relation to the section 13.6 Management of Aboriginal objects

It is proposed that Aboriginal objects recovered from the salvage surface collection will be reburied within the study area, outside the proposed impact area. Consultation with RAPs regarding this approach has yet to be determined, however feedback is encouraged as part of the stakeholder review of the ACHAR. At the time this report was prepared the reburial site location had not been determined (refer Section 8.1.6). Terrain Solar (or proponent) would need to identify a location that will not be impacted by the proposed solar farm operation for consideration by the RAP.....

MACI would like to be consulted in relation to the proposed site for reburial.

As a volunteer community organisation we are unable to fund insurance for assistance with archaeological studies, therefore do not attend.

Please feel free to contact me to discuss any or all of the comments.

Djan Yimaba Yarra
(Thank you and bye in Ngunnawal language)
Jennie Gordon
Public Officer and Secretary
Mulwaree Aboriginal Community Inc
0408788391
mulwareeaboriginalcommunity@gmail.com
and cc to
j.gordon@bigpond.net.au

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Tuesday, 26 April 2022 9:48 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Cc: David Walker <David.Walker@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: FW: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good Morning

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Kind regards
Latisha

Latisha Ryall

From: Latisha Ryall
Sent: Wednesday, 27 April 2022 10:23 AM
To: jenniegordon59@outlook.com
Cc: David Walker; Ben; j.gordon@bigpond.net.au
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good Morning Jennie

Thank you for your detailed response, I will review the comments today regarding the background history in consideration of amendment to the report and I note that that Mulwaree Aboriginal Community Inc agree to the recommendations documented in the Aboriginal Heritage management and mitigation measures for the proposed works.

Kind regards,
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800





POSITION VACANT
TOWN PLANNER

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HR@premise.com.au

APPLY NOW



From: jenniegordon59@outlook.com <jenniegordon59@outlook.com>
Sent: Tuesday, 26 April 2022 11:56 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Cc: David Walker <David.Walker@premise.com.au>; Ben <Ben@ozarkeh.com.au>; j.gordon@bigpond.net.au
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm
Importance: High

Hi Latisha, David and Ben

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Latisha Ryall

From: Latisha Ryall
Sent: Tuesday, 3 May 2022 2:06 PM
To: jenniegordon59@outlook.com
Cc: David Walker; Ben; j.gordon@bigpond.net.au; Latisha Ryall
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Good afternoon Jennie

Thank you for your detailed response to the MSF ACHAR and time on the phone last week to discuss the comments, It was lovely speaking with you. I have taken onboard the comments provided by Mulwaree Aboriginal Community Inc and updated the report as necessary. As indicated on the phone a detailed update to the history has not been undertaken, however additional summary has been provided referencing the Old Marulan report both in text and within the references.

Our response to your feedback is provided in section 3.8 of the final report and is detailed below for your records.

The ACHAR is now finalised.

Mulwaree Aboriginal Community Inc	<ul style="list-style-type: none">Mulwaree Aboriginal Community Inc supports the ACHAR and agree to the recommendations documented in the Aboriginal Heritage management and mitigation measures Section 13.6 for the proposed works and would like to be consulted in relation to the site for reburial. Requested update to preferred spelling for Gundungurra.<ul style="list-style-type: none">The following comments were put forward by Mulwaree Aboriginal Community Inc.	Premise updated correct spelling and acknowledged support of the ACHAR and ongoing involvement.
	<ol style="list-style-type: none">Advised the archaeological report prepared for Old Marulan for Holcim be forwarded to Premise for review as it holds cultural importance for the Mulwaree Aboriginal Community Inc (MACI) specifically: <i>our old people and their lifestyles, names and events including ongoing connection to Country during and after colonisation</i>	<ol style="list-style-type: none">Premise reviewed the report and updated information relevant to the Aboriginal history of the area in Section 5.2 and Section 7.6. Reference to this document is provided in Section 15
	<ol style="list-style-type: none">Report to include an update to quality of research for cultural events specifically mention of the Narambulla Creek massacre site noting the first record of this appears in Goulburn Mulwaree Council Aboriginal Heritage Study (GMCAHS) prepared in January 2012. MACI advise there is no evidence / knowledge of any such massacre in local Traditional Custodian knowledge and no reference to any massacre on the University of Newcastle Australian Aboriginal Massacres website.	<ol style="list-style-type: none">Premises acknowledges this information; and a footnote has been provided in Section 11.2
	<ol style="list-style-type: none">Requests removal of reference to Wiradjuri ties to the area noting this is offensive to the Traditional People of Goulburn and Marulan areas. <i>Note this is not and never has been Wiradjuri land</i>	<ol style="list-style-type: none">Reference relating to Wiradjuri connections have been removed from the report.

	4. Requests removal of context regarding ease of travel between Marulan / Bungonia area to Nowra / Shoalhaven as context is incorrect. Noting the language does not represent the Traditional Custodian Groups of this region.	4. Premise acknowledge information and updated information. Refer Section 5.1
	5. Reference should be made to the Goulburn Mulwaree Council Aboriginal Heritage Study 2012 which demonstrates Goulburn was far more than a "meeting place acting as a cross roads"	5. Premise notes reference has previously been made to the 2012 AMBS study which does not discuss Marulan/Carrick in detail rather the broader Goulburn area. Additional information has been provided in Section 5.4 . No other updates have occurred..
	6. Requested information on Pejar River source.	6. Premise provided source information. Rivers of Carbon website: https://riversofcarbon.org.au/ Update to Section 5.2
	7. Requested update/removal of the creation story of Gurangatch and Mirrang as this is a dreamtime story from the Burragorang Valley, lower sections of the Wollondilly.	7. Information relating to the creation story has been left in however, summarised as referenced in AMBS 2012 as important to the LGA. This record has been updated in Section 5.2
	8. Having read the Premise proposal we request that the Aboriginal History of the area/ region is corrected to reflect the known and evidenced Aboriginal history. WE are aware that the site is within the songlines from north to south ceremonial sites and there are early colonial records of "Kangaroo song" being used within this region for travel purposes.	8. Premise acknowledge information received and have made updates as required Reference to the Kangaroo Song has been updated in Section 3.7, Section 5.2 and Section 11

Kind regards
Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800





POSITION VACANT
TOWN PLANNER

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HR@premise.com.au

APPLY NOW



From: jenniegordon59@outlook.com <jenniegordon59@outlook.com>
Sent: Thursday, 28 April 2022 12:07 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>

Latisha Ryall

From: David Walker
Sent: Monday, 2 May 2022 3:00 PM
To: Robert Young
Cc: Latisha Ryall; Ben
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

12d Synergy: -1
12d Synergy Job: DATA/Projects/Orange/221106 Marulan Solar Farm
12d Synergy Project: DATA/Projects/Orange/221106 Marulan Solar Farm
12d Synergy SendGU: 334d98b9-25bc-4a9a-9301-0ba2250cb6fb

Hi Robert

Try this link.  [221106_Draft ACHAR_MS_F_001C\(1\).pdf](#)

Any issues, please call Latisha directly today to discuss.

Appreciate your verbal feedback that you enjoyed the dig and that you thought the site was well run.

Kind regards,



DAVID WALKER
General Manager – Central NSW

T 02 6393 5000 | **M** 0437 621 057
E David.Walker@premise.com.au
A 154 Peisley St, Orange NSW 2800





POSITION VACANT
TOWN PLANNER

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HR@premise.com.au

APPLY NOW



From: Robert Young <konanggo_consultancy@hotmail.com>
Sent: Monday, 2 May 2022 2:29 PM
To: David Walker <David.Walker@premise.com.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>
Subject: RE: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

Hi All,

So sorry for the late email reply - been on another project last week

Unfortunately, I can not open the link and I'll call David

Could give me a call on my mobile please

Yours In Culture,

Robert Young

Principal Consultant

Konanggo Aboriginal Cultural Heritage Services

2/42 Crawford Road, Brighton Le Sands 2216 NSW

Email: konanggo_consultancy@hotmail.com

Phone: 0450-497-270

From: David Walker <David.Walker@premise.com.au>

Sent: Wednesday, 13 April 2022 2:26 PM

To: David Walker <David.Walker@premise.com.au>

Cc: Latisha Ryall <latisha.ryall@premise.com.au>; Ben <Ben@ozarkehm.com.au>

Subject: FW: [#221106] 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

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Kind regards



DAVID WALKER

Town Planning Discipline Lead

T 02 6393 5000 | **M** 0437 621 057

E David.Walker@premise.com.au

A 154 Peisley St, Orange NSW 2800





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From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Thursday, 31 March 2022 1:21 PM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Cc: Ben <Ben@ozarkehm.com.au>; David Walker <David.Walker@premise.com.au>
Subject: 221106_Stage 4 Review of draft ACHAR_ Marulan Solar Farm

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Please let me know if you have any questions regarding the assessment.

Kind Regards,

Latisha



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



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APPLY NOW



APPENDIX C

AGENCY RESPONSES

Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

Goulburn Mulwaree Council
Locked Bag 22
Goulburn NSW 2580

Via Email: council@goulburn.nsw.gov.au

Dear Sir/Madam

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres (km) west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm. Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have now been received which specify during the preparation of the Environmental Impact Statement an Aboriginal Cultural Heritage Assessment Report (ACHAR) is required to identify and describe the Aboriginal cultural heritage values that will be impacted by the proposed development.

The ACHAR will:

- identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

In line with the relevant consultation guidelines and in accordance with the *National Parks and Wildlife Regulation 2009*, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to Carrick, Marulan and Goulburn Mulwaree Area. Please forward any information that you have before **21 May 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 026393 5000
Email: latisha.ryall@premise.com.au

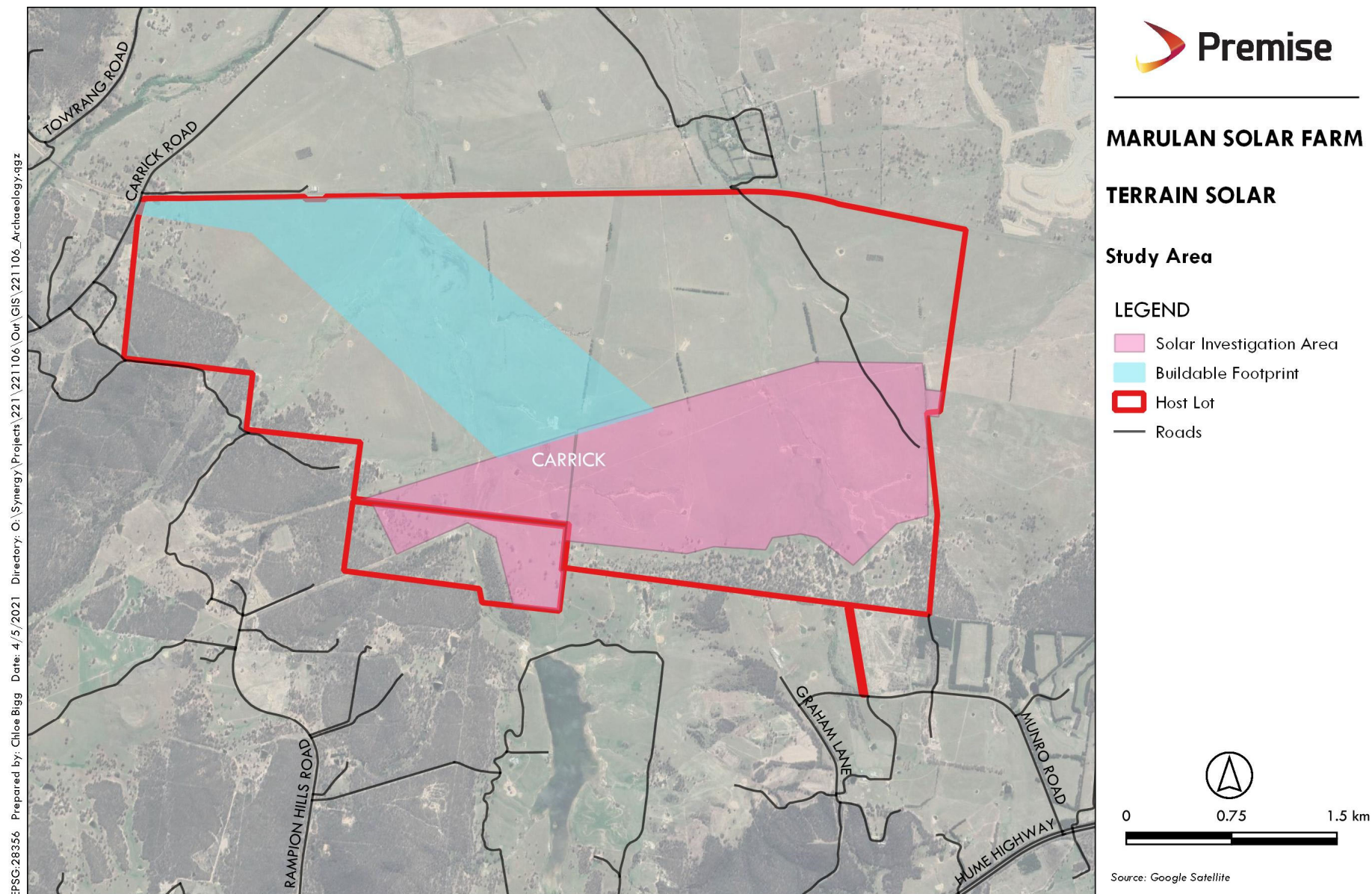
If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

From: [Council](#)
To: [Latisha Ryall](#)
Subject: Email Receipt Notification - DO NOT REPLY
Date: Friday, 7 May 2021 5:12:13 PM

Thank you for contacting Goulburn Mulwaree Council.

Council acknowledges receipt of your email and it has been forwarded to the appropriate department for action. If you wish to follow-up on the progress of your email, please contact Council on (02) 4823 4444 during business hours.

If this email is to report a dangerous safety issue and it is outside Council's business hours (Monday – Friday 8.30am-5pm) or on a Public Holiday, please call the Duty Officer on 02 4823 4500.

Please note this is an automated response. Do not reply to this email.

Council collects personal information only for a lawful purpose that is directly related to Council's functions and activities. Council is required under the Privacy & Personal Information Protection Act 1998 (PPIP) Act to collect, maintain & use your personal information in accordance with the Privacy Principles & other relevant requirements of the PPIP Act. For further information or clarification please contact Council's Privacy Officer or refer to Council's Privacy Management Policy at www.goulburn.nsw.gov.au

Goulburn Mulwaree Council

T: 02 4823 4444

[Goulburn Mulwaree Council](#) Locked Bag 22 Goulburn NSW 2580 | Connect on [Facebook](#)



From: [Michelle Hughes](#)
To: [Latisha Ryall](#)
Subject: RE: Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm
Date: Tuesday, 11 May 2021 3:06:06 PM

Good afternoon Latisha

Thank you for your email. As per your request, the following group is the best point of contact:

Delise Freeman
CEO
Pejar Local Aboriginal Land Council
80 Combermere Street or
PO Box 289
Goulburn NSW 2580
0417254813 (mobile)
02 – 48223552 (phone)

Kind regards
Michelle

Michelle Hughes
Executive Assistant - Planning & Environment
T: 02 4823 4480
[Goulburn Mulwaree Council](#) Locked Bag 22 Goulburn NSW 2580 | Connect on [Facebook](#)



From: Latisha Ryall [mailto:latisha.ryall@premise.com.au]
Sent: Friday, 7 May 2021 4:17 PM
To: Council <Council@goulburn.nsw.gov.au>
Subject: Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm

7 May 2021

Goulburn Mulwaree Council
Locked Bag 22
Goulburn NSW 2580

Via Email: council@goulburn.nsw.gov.au

Dear Sir/Madam

MARULAN SOLAR FARM PROPOSED DEVELOPMENT – SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres (km) west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm. Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have now been received which specify during the preparation of the Environmental Impact Statement an Aboriginal Cultural Heritage Assessment Report (ACHAR) is required to identify and describe the Aboriginal cultural heritage values that will be impacted by the proposed development.

The ACHAR will:

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- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

In line with the relevant consultation guidelines and in accordance with the *National Parks and Wildlife Regulation 2009*, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to Carrick, Marulan and Goulburn Mulwaree Area. Please forward any information that you have before **21 May 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 026393 5000
Email: latisha.ryall@premise.com.au

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area


Premise
LATISHA RYALL
Archaeologist
T 02 6393 5000
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

National Native Title Tribunal
GPO Box 9973
Sydney NSW 2001

Via Email: enquiries@nntt.gov.au

Dear Sir/Madam

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

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Premise Australia Pty Ltd
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Ph. 026393 5000
Email: latisha.ryall@premise.com.au

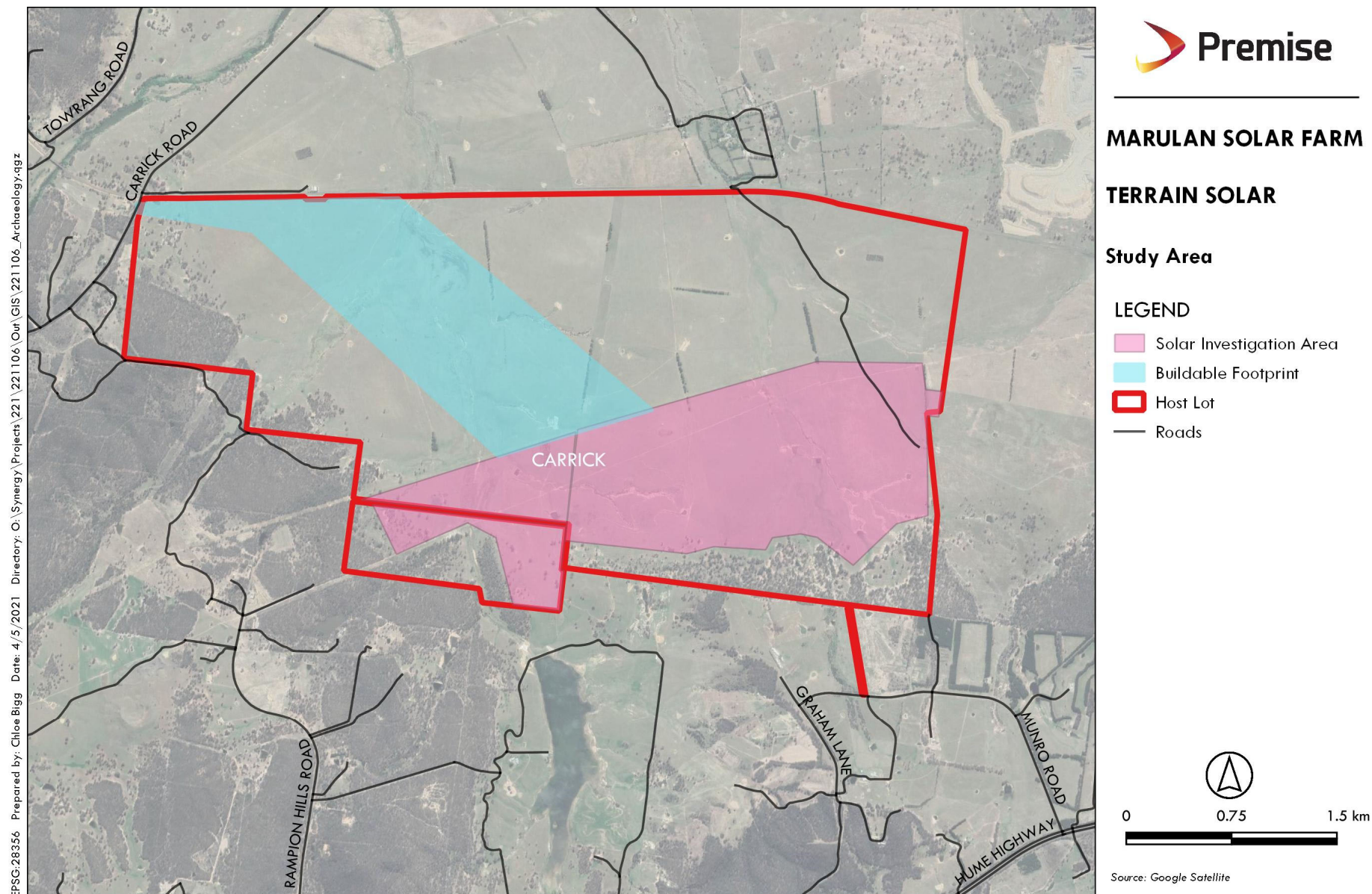
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Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

From: [Enquiries](#)
To: [Latisha Ryall](#)
Subject: RE: 221106 Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm - NNTT
Date: Friday, 7 May 2021 5:16:14 PM

Thank you for contacting the National Native Title Tribunal (NNTT).

This is an automated response – please do not reply.

We acknowledge receipt of your email, which has been forwarded to the responsible team who will be in contact.

If your enquiry is urgent, please contact NNTT on (07) 3307 5000.

Our Offices are open Monday – Friday, 8.30am – 4.30pm.

For further information, please visit www.nntt.gov.au.

Latisha Ryall

From: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Sent: Tuesday, 11 May 2021 5:37 PM
To: Latisha Ryall
Subject: RE: SR21/677 - 221106 Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm - NNTT

UNCLASSIFIED

Native title search – NSW Parcel - Lot 55 DP1141136

Your ref: 221106- Marulan - **Our ref:** SR21/677

Dear Latisha Ryall,

Thank you for your search request received on 11 May 2021 in relation to the above area. Based on the records held by the National Native Title Tribunal as at 11 May 2021 it would appear that there are no Native Title Determination Applications, Determinations of Native Title, or Indigenous Land Use Agreements over the identified area.

Search Results

The results provided are based on the information you supplied and are derived from a search of the following Tribunal databases:

- Schedule of Native Title Determination Applications
- Register of Native Title Claims
- Native Title Determinations
- Indigenous Land Use Agreements (Registered and notified)

At the time this search was carried out, there were **no relevant entries** in the above databases.

Parcel ID	Alt ID	Feature Area SqKm	Overlapping Native Title		
55//DP1141136		14.0043	Tenure	NNTT File Number	Name
			FREEHOLD	No overlap	

For more information about the Tribunal's registers or to search the registers yourself and obtain copies of relevant register extracts, please visit our [website](#).

Information on native title claims and freehold land can also be found on the Tribunal's website here: [Native title claims and freehold land](#).

Please note: There may be a delay between a native title determination application being lodged in the Federal Court and its transfer to the Tribunal. As a result, some native title determination applications recently filed with the Federal Court may not appear on the Tribunal's databases.

The search results are based on analysis against external boundaries of applications only. Native title applications commonly contain exclusions clauses which remove areas from within the external boundary. To determine whether the areas described are in fact subject to claim, you need to refer to the "Area covered by claim" section of the relevant Register Extract or Schedule Extract and any maps attached.

Search results and the existence of native title

Please note that the enclosed information from the Register of Native Title Claims and/or the Schedule of Applications is **not** confirmation of the existence of native title in this area. This cannot be confirmed until the Federal Court makes a determination that native title does or does not exist in relation to the area. Such determinations are registered on the National Native Title Register.

The Tribunal accepts no liability for reliance placed on enclosed information

The enclosed information has been provided in good faith. Use of this information is at your sole risk. The National Native Title Tribunal makes no representation, either express or implied, as to the accuracy or suitability of the information enclosed for any particular purpose and accepts no liability for use of the information or reliance placed on it.

If you have any further queries, please do not hesitate to contact us via GeospatialSearch@NNTT.gov.au

Regards,

Geospatial Searches

National Native Title Tribunal | Perth

Email: GeospatialSearch@nntt.gov.au | www.nntt.gov.au

From: Latisha Ryall <latisha.ryall@premise.com.au>

Sent: Tuesday, 11 May 2021 10:15 AM

To: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>

Subject: SR21/677 - FW: 221106 Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm - NNTT

Caution: This is an external email. DO NOT click links or open attachments unless you recognise the sender and know the content is safe.

Good Morning

Please find attached a Geospatial Search Form for the below project, located in Carrick NSW. I am commencing community consultation for a preparation of an ACHAR.

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: Enquiries <Enquiries@nntt.gov.au>
Sent: Tuesday, 11 May 2021 10:23 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: 221106 Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm - NNTT

UNCLASSIFIED

Dear Latisha Ryall,

Thank you for your enquiry regarding Register Searches. To enable us to complete the search appropriately and adequately, please forward your request, along with a Geospatial Search Form, to the following email address: GeospatialSearch@NNTT.gov.au

A Geospatial Search Form must accompany your request. Search request forms are available for download from our website at: http://www.nntt.gov.au/assistance/Geospatial/Pages/Geospatial_Searches.aspx

Further information on searching our Registers is available at: <http://www.nntt.gov.au/assistance/Pages/Searches-and-providing-Register-information.aspx>

Please note:

Cultural Heritage - The existence or otherwise of native title is quite separate to any matters relating to Aboriginal cultural heritage. In NSW, the National Native Title Tribunal has undertaken steps to remove itself from the formal list of sources for information about indigenous groups in development areas.

Kind Regards

Dion.

Enquiries

Public enquiry hours are 8.30am to 4.30pm

National Native Title Tribunal

Email enquiries@nntt.gov.au

www.nntt.gov.au

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Friday, 7 May 2021 5:16 PM
To: Enquiries <Enquiries@nntt.gov.au>
Cc: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: 221106 Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm - NNTT

Caution: This is an external email. DO NOT click links or open attachments unless you recognise the sender and know the content is safe.

Good afternoon

I am commencing Aboriginal Consultation for works the Marulan Solar Farm in Carrick NSW. Please find attached a letter regarding step 4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*.

Kind Regards,



Request for Spatial Search of Tribunal Registers

1: Your details

Your name:	Latisha Ryall		
Your company:	Premise Australia Pty Ltd		
E-mail address:	Latisha.ryall@premise.com.au	Phone:	02 6393 5000
Your reference:	221106- Marulan	Your state:	New South Wales
<input checked="" type="checkbox"/>	I have read and acknowledge the terms and conditions on the next page.		

2: Areas to be searched

Jurisdiction to be searched:	New South Wales	Tenure to be searched:	Select one.
------------------------------	-----------------	------------------------	-------------

Parcel or tenement identifiers (add up to 20 separate identifiers). **Please see over for parcel identifiers.**

Parcel 1:	Lot 55 DP1141136	Parcel 2:	n/a
Parcel 3:	n/a	Parcel 4:	n/a
Parcel 5:	n/a	Parcel 6:	n/a
Parcel 7:	n/a	Parcel 8:	n/a
Parcel 9:	n/a	Parcel 10:	n/a
Parcel 11:	n/a	Parcel 12:	n/a
Parcel 13:	n/a	Parcel 14:	n/a
Parcel 15:	n/a	Parcel 16:	n/a
Parcel 17:	n/a	Parcel 18:	n/a
Parcel 19:	n/a	Parcel 20:	n/a

If your search area is not a parcel or mining or petroleum tenement, you can enter other tenure or administrative regions here (e.g. local government area, townsite or county). Please provide as much detail as you can.

Goulburn Mulwaree LGA

E-mail the completed form to GeospatialSearch@NNTT.gov.au

Parcel Identifiers

In most jurisdictions please identify parcels using lot on plan, or lot/section/plan as appropriate. The NNTT is generally not able to identify parcels using land title information. Where possible, the NNTT uses the terminology and formatting of unique identifiers used in each state to uniquely identify a land parcel. More details are below:

1. **Lot on plan.** Use for Western Australia and Queensland.
2. **Lot/Section/Plan.** Use for New South Wales.
3. **LAISKEY.** Use for the Northern Territory. The laiskey is a unique identifier for each parcel comprised of the location code, LTO code (derived from the survey plan) where applicable and the parcel number.
4. **Parcel ID** – Use for South Australia. Concatenation of Parcel Type, Parcel, Plan Type and Plan.
5. **SPI (Standard Parcel Identifier)** – Use for Victoria.

Terms and Conditions

1. Specify only one jurisdiction (e.g. Queensland) and one type of tenure (e.g. mining tenement) per form. You can add up to 20 separate tenements or parcels per search request. For more than 20 parcels or tenements please submit additional search requests or contact GeospatialSearch@NNTT.gov.au to discuss your requirements.

Note: if your area of interest cannot be clearly identified from the search form, or is not held in NNTT datasets, we may instead provide search results for a surrounding local government area, or other suitable regional area.

2. Freehold land.

Under the Native Title Act 1993 (Cth), the valid grant of a freehold estate (other than certain types of Aboriginal and Torres Strait Islander land) on or before 23 December 1996 is known as a 'previous exclusive possession act'. This means that native title has been extinguished over the area. Native title claimants are not allowed to include land and waters covered by previous exclusive possession acts in their applications; therefore they would normally exclude freehold areas. A native title application may, however, be made over freehold land on the basis that freehold was invalidly granted, but the chances of this happening are very low.

3. Cultural Heritage in NSW.

The National Native Title Tribunal has undertaken steps to remove itself from the formal list of sources for information about indigenous groups in development areas. The existence or otherwise of native title is quite separate to any matters relating to Aboriginal cultural heritage. Information on native title claims, native title determinations and Indigenous Land Use Agreements is available on the Tribunal's website.

4. Spatial searches rely on data obtained from the relevant custodian. Whilst efforts are taken to update such datasets on a regular basis, the collection and interpretation of such datasets may be influenced by a number of factors that can impact of the completeness and accuracy of your search results.

Disclaimer

While the National Native Title Tribunal (NNTT) and the Native Title Registrar (Registrar) have exercised due care in ensuring the accuracy of the information provided, it is provided for general information only and on the understanding that neither the NNTT, the Registrar nor the Commonwealth of Australia is providing professional advice. Appropriate professional advice relevant to your circumstances should be sought rather than relying on the information provided. In addition, you must exercise your own judgment and carefully evaluate the information provided for accuracy, currency, completeness and relevance for the purpose for which it is to be used.

The information provided is often supplied by, or based on, data and information from external sources, therefore the NNTT and Registrar cannot guarantee that the information is accurate or up-to-date.

The NNTT and Registrar expressly disclaim any liability arising from the use of this information.

This information should not be relied upon in relation to any matters associated with cultural heritage.

Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

Pejar Local Aboriginal Land Council
PO Box 289
Goulburn NSW 2580

Via Email: pejar1@bigpond.com

Dear Sir/Madam

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres (km) west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm. Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

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The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
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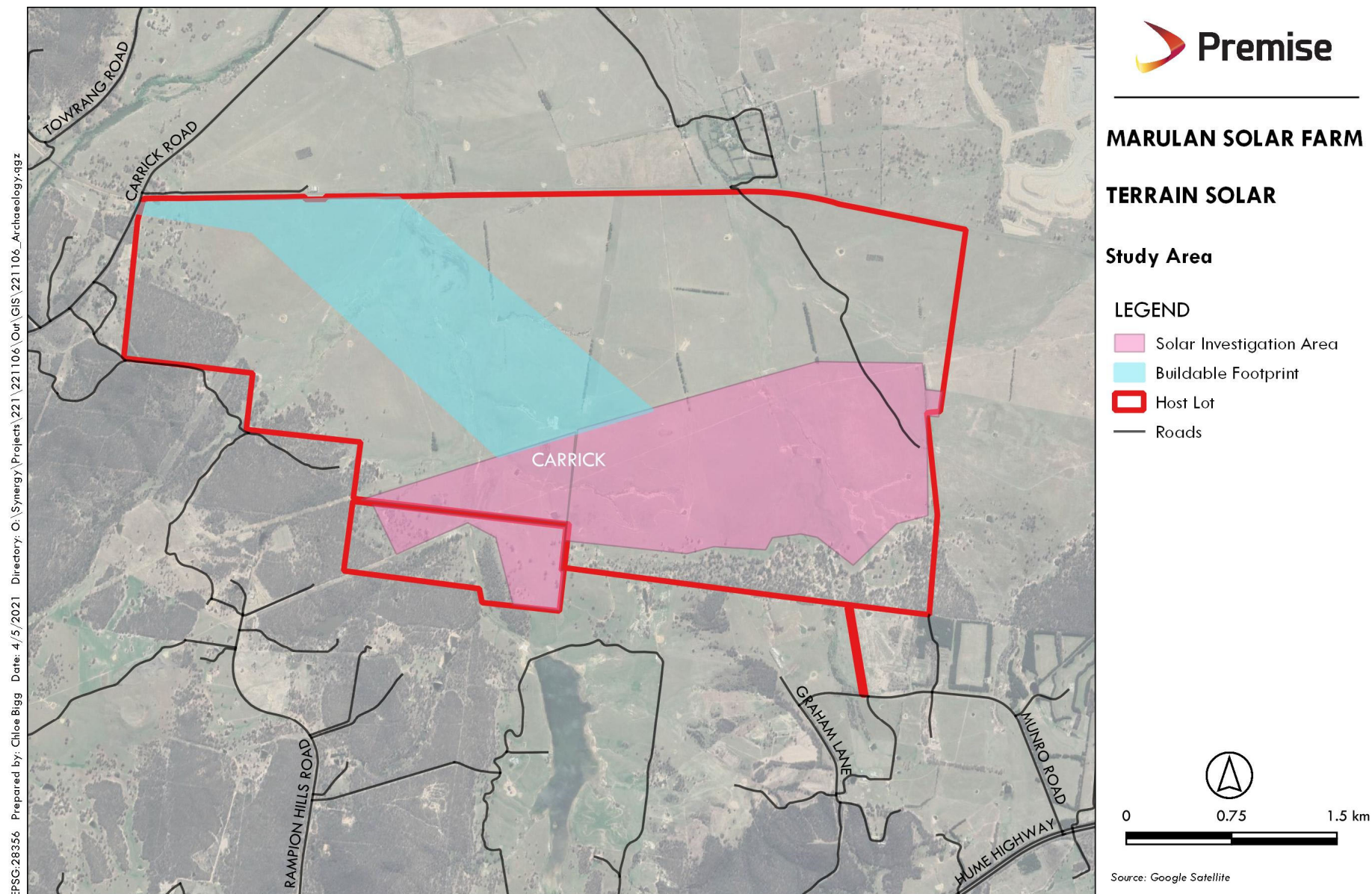
If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

Office of the Registrar
PO Box 5068
Parramatta NSW 2124

Via Email: adminofficer@oralra.nsw.gov.au

Dear Sir/Madam

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SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

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PO Box 1963
ORANGE NSW 2800
Ph. 026393 5000
Email: latisha.ryall@premise.com.au

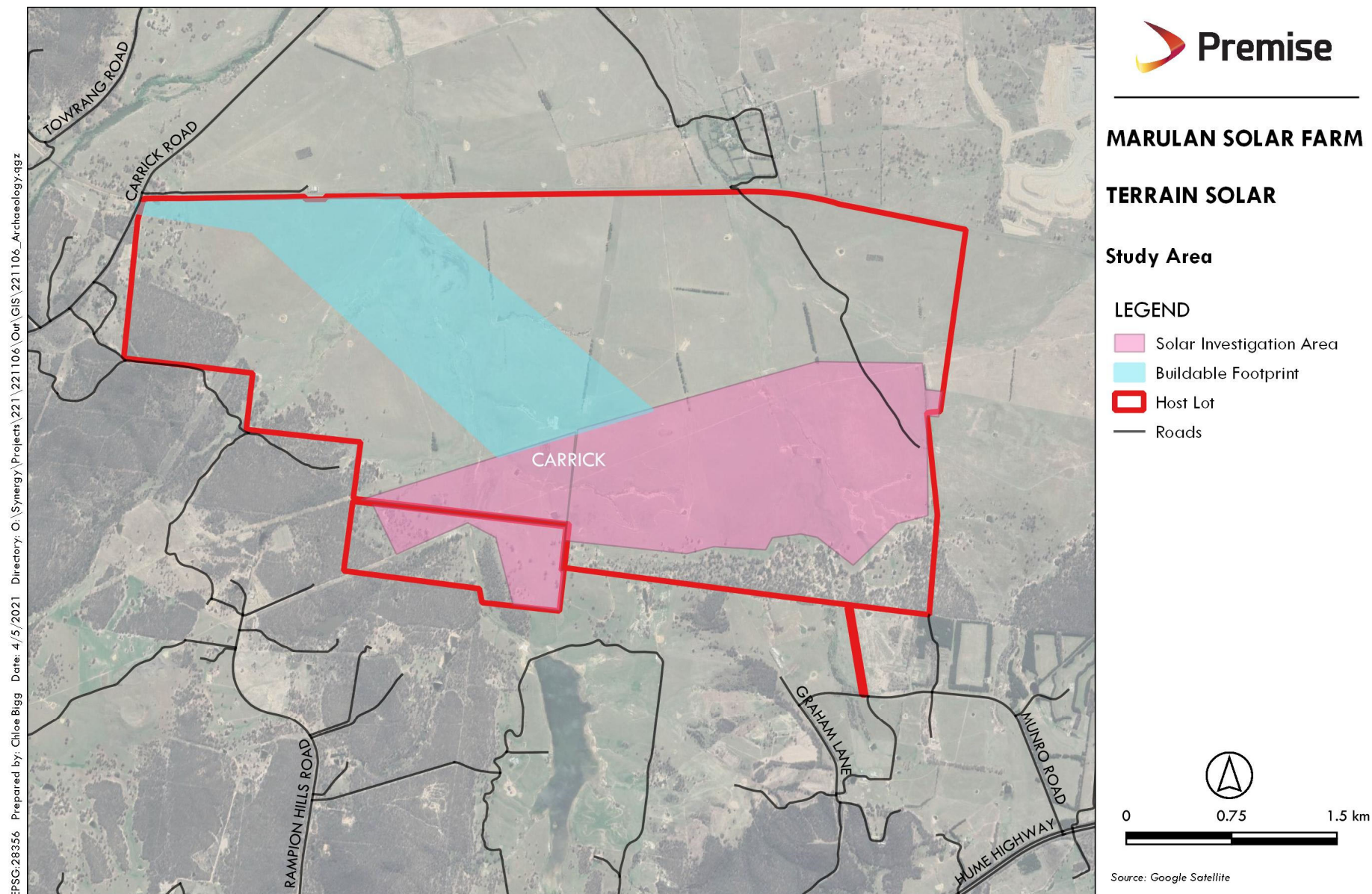
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Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

Native Title Services Corporation Limited
PO Box 2105
Strawberry Hills NSW 2012

Via Email: information@ntscorp.com.au

Dear Sir/Madam

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SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

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Terrain Solar
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Email: tom@terrainsolar.com
Phone: 0400079641

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Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 026393 5000
Email: latisha.ryall@premise.com.au

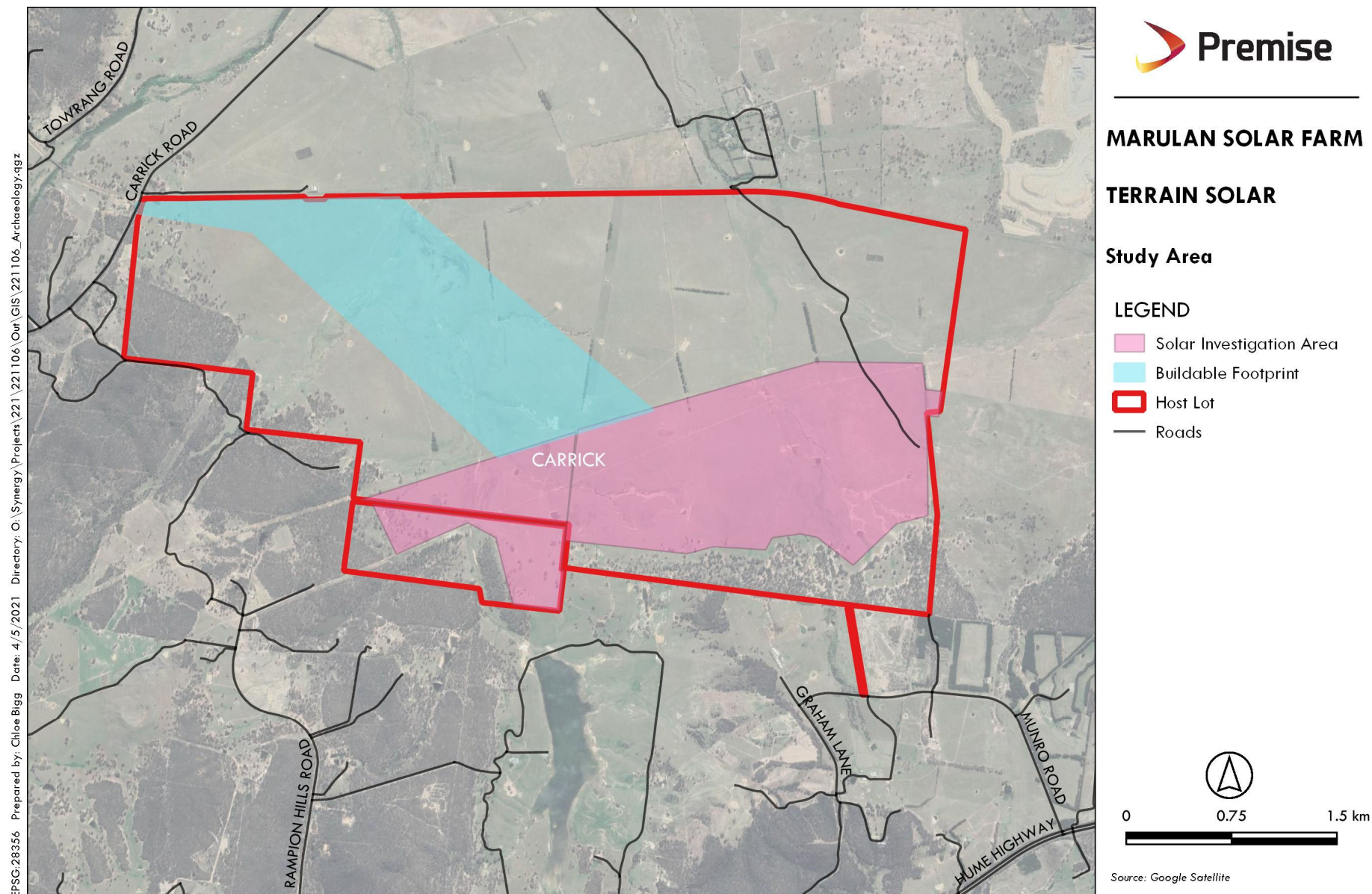
If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

South East Local Land Services
159 Auburn Street
Goulburn NSW 2580

Via Email: enquiry.southeast@lls.nsw.gov.au

Dear Sir/Madam

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal cultural heritage assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres (km) west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm. Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have now been received which specify during the preparation of the Environmental Impact Statement an Aboriginal Cultural Heritage Assessment Report (ACHAR) is required to identify and describe the Aboriginal cultural heritage values that will be impacted by the proposed development.

The ACHAR will:

- identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

In line with the relevant consultation guidelines and in accordance with the *National Parks and Wildlife Regulation 2009*, I am writing to you to request the names and contact details that your organisation has for Aboriginal people who may hold cultural knowledge relevant to Carrick, Marulan and Goulburn Mulwaree Area. Please forward any information that you have before **21 May 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 026393 5000
Email: latisha.ryall@premise.com.au

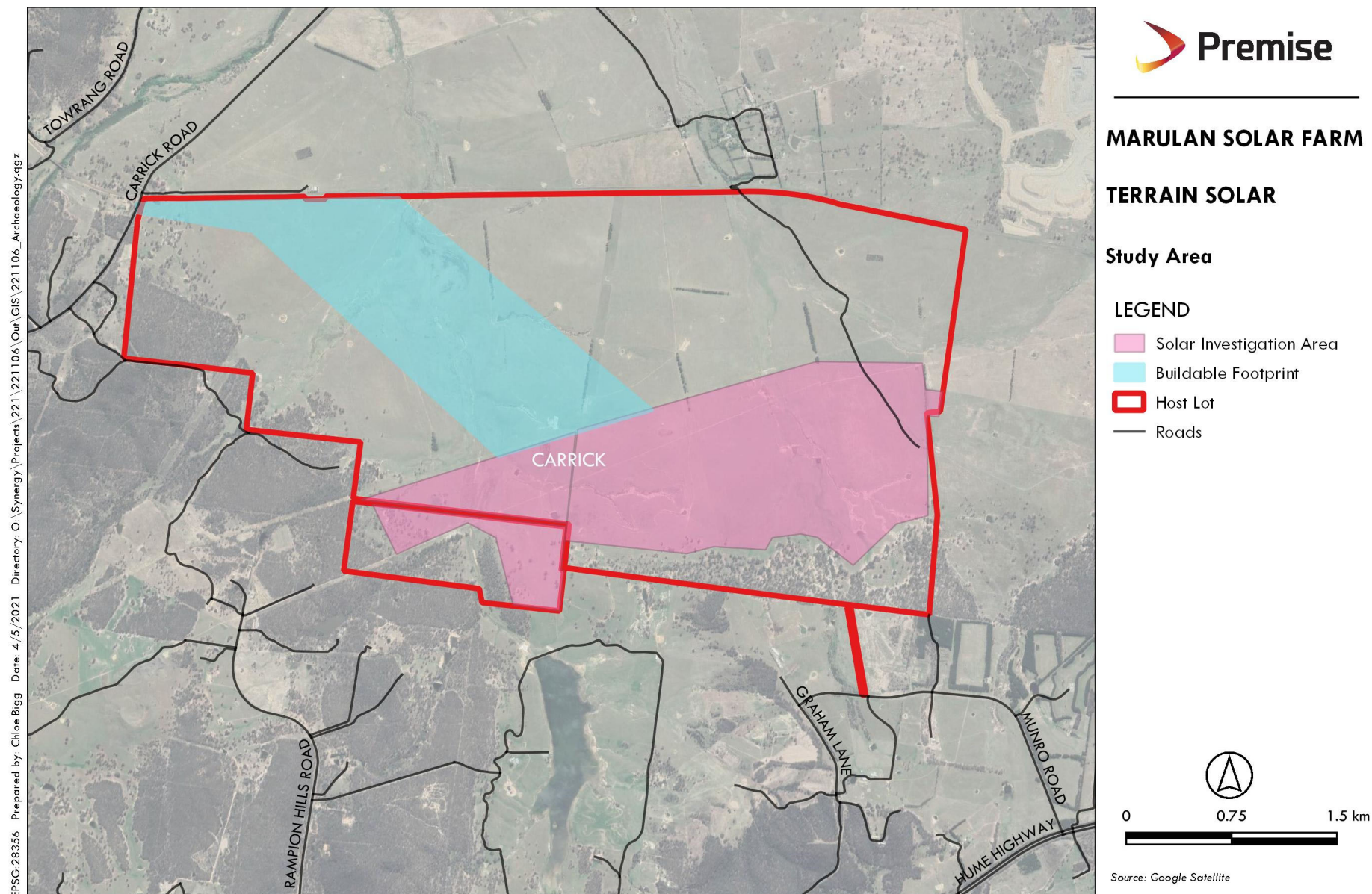
If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area



EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

From: [LLS Enquiry SouthEast Mailbox](#)
To: [Latisha Ryall](#)
Subject: Automatic reply: Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm
Date: Friday, 7 May 2021 4:19:20 PM

Thank you for your email, we endeavour to reply to your email within 3 business days .

If your matter is urgent, please call 1300 795 299 during business hours to speak with your local office.

If you suspect an exotic animal disease please contact the Emergency Animal Disease hotline on 1800 675 888.

If you suspect a plant health issue please contact the Exotic Plant Pest hotline on 1800 084 881

Stay up-to-date with advice, information, events and project updates from South East Local Land Services by signing up to our e-newsletter.

Our Ref: 221106_Agency Consultation Letter.docx

7 May 2021

Heritage NSW
Locked bag 5020
Parramatta NSW 2124

Via Email: heritagemailbox@environment.nsw.gov.au

Dear Sir/Madam

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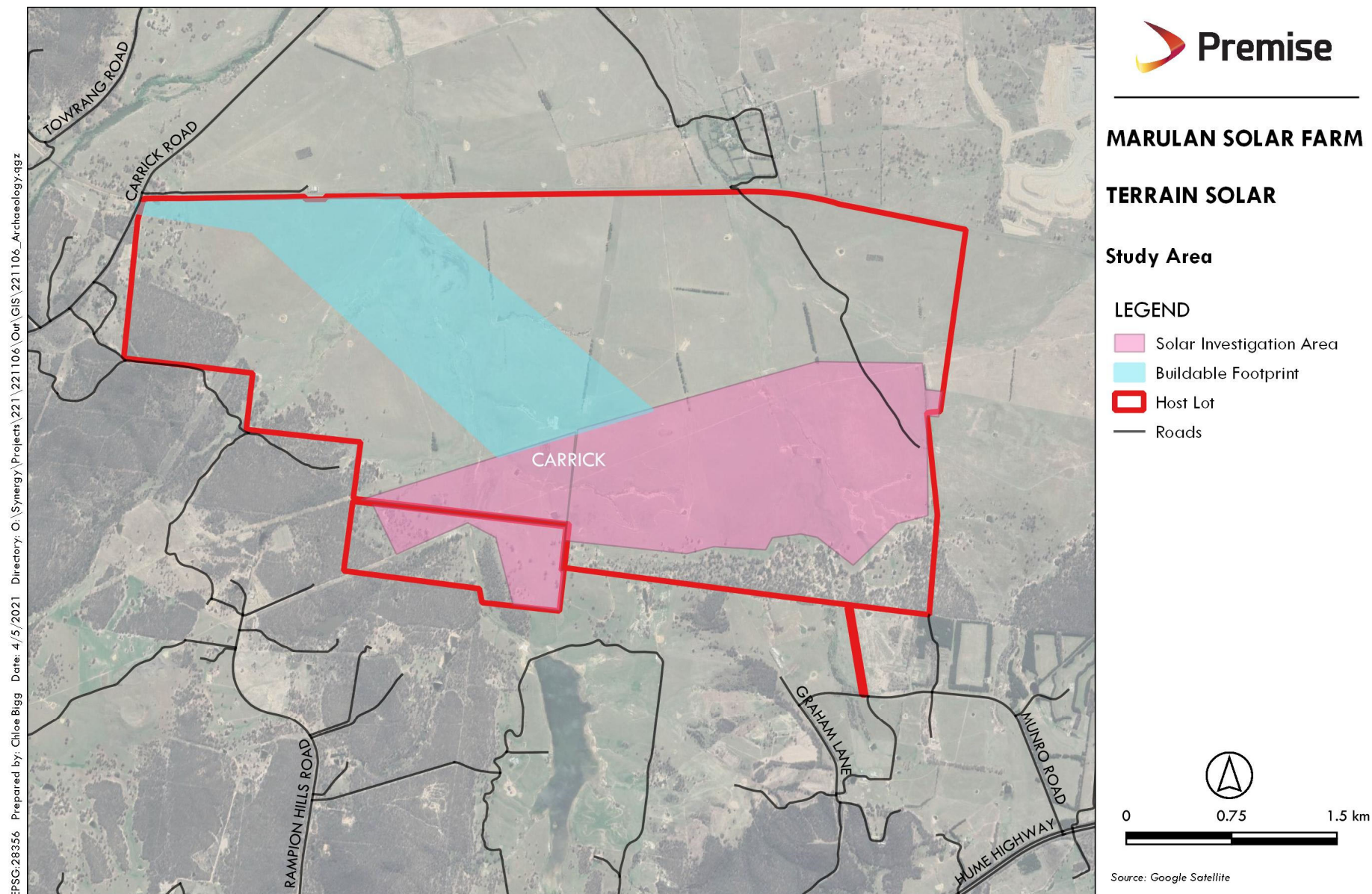
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Yours sincerely



LATISHA RYALL
Archaeologist

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EPSG:28356 Prepared by: Chloe Bigg Date: 4/5/2021 Directory: O:\Synergy\Projects\221\221106\Out\GIS\221106_Archaeology.qgz

From: [OEHD.HD.Heritage.Mailbox](#)
To: [Latisha Ryall](#)
Subject: Automated Response
Date: Friday, 7 May 2021 5:19:43 PM
Attachments: [image002.png](#)
[image001.png](#)



Heritage NSW

Thank you for your email to Heritage NSW, Department of Premier and Cabinet. We will respond to your email as soon as possible.

A new Heritage Management System is coming!

We are working to improve our systems to make it easier for you to work with us. We will be releasing a new Heritage Management System in early 2021, which will provide:

- improved heritage search tools, and
- the ability to submit, pay and track the progress of applications online.

Further updates will be provided as work progresses.

Reinvigorated s170 program commences 1 February 2021

Heritage NSW is working with state agencies to help them meet their obligations for managing heritage assets under section 170 of the *Heritage Act 1977*. Please get in touch if you do not know your Heritage NSW single point of contact. For further information about an agency's heritage responsibilities, please refer to the [State Agency Heritage Guide](#) available on our website. Section 170 notifications, registers and heritage asset management strategies should be submitted in accordance with this guide.

New Standard Exemptions and s60 fast track approval pathway

New Standard Exemptions and a fast track approval pathway for items listed on the State Heritage Register (SHR) or subject to an Interim Heritage Order (IHO) came into force on 1 December 2020. The new Standard Exemptions, fast track application form and supporting information are available on the [Heritage NSW website](#).

Coronavirus (COVID 19)

Given the rapid spread of coronavirus (COVID-19) Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, partners and communities. We have implemented a number of safeguards that meet official Australian Government COVID-19 guidelines. Whilst our offices remain open, we have well established flexible working arrangements for our teams across NSW, and we will continue to adapt as necessary as these guidelines continue to evolve. Face-to-face meetings and field work/site visits with our customers are now subject to new rules on gatherings and social distancing measures. There may also be some short delays in processing postage in the coming weeks.

We are committed to supporting our communities during this developing situation and we thank you for your patience and understanding.

Aboriginal cultural heritage regulation is now part of Heritage NSW

From 1 July 2020 Heritage NSW began managing Aboriginal cultural heritage regulatory functions under the *National Parks and Wildlife Act 1974*. Now the government functions for the management of Aboriginal cultural heritage is within the one State government agency. All the staff that previously carried out these functions in the Department of Planning, Industry and Environment have been welcomed into Heritage NSW.

Applications and section 170 notifications

If you have submitted an application under the *Heritage Act 1977* or the *National Parks and Wildlife Act 1974*, or a section 170 notification, it will first be reviewed for completeness and then allocated to the appropriate assessment team or officer. An officer will contact you if any additional information is required. The completeness check is generally completed within 7-14 business days.

We aim to process applications or notifications within the timeframes below:

Application/ notification type	Timeframe (Commences once an application or notification is complete)
Planning Proposals Section 139 Exceptions Section 140 Permits Section 4.55 Modifications	21 days
Integrated Development Applications	If advertised: 21 days following receipt of submissions, or advice there were no submissions, or If not advertised: 40 days
Section 60 Application (fast track) Section 60 Applications (standard/ major works) Section 65A Modifications	21 days 40 days (or 60 days if advertised)
Section 90 Aboriginal Heritage Impact Permit	60 days
Section 170 notifications – local heritage items Section 170 notifications – state heritage/SHR items Section 170 registers and heritage asset management strategies	14 days 40 days As advised/ negotiated with an agency's single point of contact

Nominations for listing under the *Heritage Act 1977* (State Heritage Register) must accompany a nomination form available on our website (<https://www.heritage.nsw.gov.au/protecting-our-heritage/nominate-listing-on-the-state-heritage-register/>). SHR Nominations are considered by the State Heritage Register Committee who will decide whether the nomination will proceed to the next stage of assessment.

Nominations for Aboriginal Place listings under the *National Parks and Wildlife Act 1974*, are allocated to the relevant team within 2 business days. An officer will contact you if any additional information is required. The Aboriginal Place proposal form is available on our website:

<https://www.heritage.nsw.gov.au/protecting-our-heritage/nominating-an-aboriginal-place/>

Aboriginal Cultural Heritage (ACH) Conservation and Repatriation

Programs supported by Heritage NSW include the ACH Conservation and Repatriation of Aboriginal ancestors and objects. This work is managed by staff located across NSW. Enquiries into these programs are sent to the relevant team within 2 business days. One of our staff will respond to you directly. Please advise us of any requests to modify our projects or timeframes to better accommodate your needs.

Further information is also available at <https://www.heritage.nsw.gov.au/>

Sincerely



Customer Strategies
Heritage, Department of Premier
and Cabinet.

Locked Bag 5020, Parramatta 2124
T (02) 9873 8500

This email is intended for the addressee(s) named and may contain confidential and/or privileged information.

If you are not the intended recipient, please notify the sender and then delete it immediately.

Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment and Heritage.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

From: [Barry Gunther](#)
To: [Latisha Ryall](#)
Subject: DPC RAP list for the Marulan solar farm - Goulburn Mulwaree Local Government Area
Date: Sunday, 9 May 2021 6:48:41 PM
Attachments: [image001.png](#)
[Attachment A - DPC RAP list - Goulburn Mulwaree Local Government Area.docx](#)
[RAP list request Marulan Solar Farm.docx](#)

Hi Latisha,

Please find attached the DPC RAP list for the Marulan solar farm - Goulburn Mulwaree Local Government Area.

regards

-

Barry Gunther, Aboriginal Heritage Planner Officer

Heritage NSW, Community Engagement, Department of Premier and Cabinet
Level 6, 10 Valentine Ave, Parramatta | Locked Bag 5020 Parramatta 2124
T: 02 9995 6830 | barry.gunther@environment.nsw.gov.au

Please lodge all Applications to Heritagemailbox@environment.nsw.gov.au

I acknowledge and respect the traditional custodians and ancestors of the lands I work across.

Heritage NSW and coronavirus (COVID-19)

Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, communities and customers. Whilst our offices remain open, we have put in place flexible working arrangements for our teams across NSW and continue to adapt our working arrangements as necessary. Face-to-face meetings and field work/site visits with our customers are subject to rules on gatherings and social distancing measures. We thank you for your patience and understanding at this time.

From: Latisha Ryall <latisha.ryall@premise.com.au>

Sent: Friday, 7 May 2021 4:18 PM

To: OEH HD Heritage Mailbox <HERITAGEMailbox@environment.nsw.gov.au>

Subject: Agency Consultation Section 4.1.2 Identification of Potential Interested Parties - Marulan Solar Farm

7 May 2021

Heritage NSW
Locked bag 5020
Parramatta NSW 2124

Via Email: heritagemailbox@environment.nsw.gov.au

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PO Box 1963
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Ph. 026393 5000
Email: latisha.ryall@premise.com.au

If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area


LATISHA RYALL
Archaeologist
T 02 6393 5000
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



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If you are not the intended recipient, please notify the sender and then delete it immediately.

Any views expressed in this email are those of the individual sender except where the sender expressly and with authority states them to be the views of the NSW Office of Environment and Heritage.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL



Latisha Ryall
Archaeologist
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800

via email: latisha.ryall@premise.com.au

Our reference: DOC21/367934
Your reference:

Dear Latisha

WRITTEN NOTIFICATION OF PROPOSAL AS REQUIRED UNDER DECCW ABORIGINAL CULTURAL HERITAGE CONSULTATION REQUIREMENTS FOR PROPONENTS 2010

Subject: Registration of Aboriginal Interests – Marulan Solar Farm, Carrick – Goulburn Mulwaree LGA

Thank you for your correspondence dated 07 May 2021 received by Heritage NSW (Department of Premier and Cabinet) regarding the above project.

Attached is a list of known Aboriginal parties for the Goulburn Mulwaree local government area that Heritage NSW considers likely to have an interest in the activity. Please note this list is not necessarily an exhaustive list of all interested Aboriginal parties. Receipt of this list does not remove the requirement of a proponent/consultant to advertise in local print media and contact other bodies seeking interested Aboriginal parties, in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (April 2010).

Under Section 4.1.6. of the Consultation Requirements, you must also provide a copy of the names of each Aboriginal person who registered an interest to the relevant **Heritage NSW** office and Local Aboriginal Land Council (LALC) within 28 days from the closing date for registering an interest.

Please note that the contact details in the list provided by Heritage NSW may be out of date as it relies on Aboriginal parties advising Heritage NSW when their details need changing. If individuals/companies undertaking consultation are aware that any groups contact details are out of date, or letters are returned unopened, please contact either the relevant stakeholder group (if you know their more current details) and/or Heritage NSW. AHIP applicants should make a note of any group they are unable to contact as part of their consultation record.

If you have any questions about this advice, please email:
heritagemailbox@environment.nsw.gov.au or contact (02) 9873 8500.

Yours sincerely

Dan Clegg
Aboriginal Heritage Planning Support Officer
Aboriginal Heritage Regulation Branch - South
Heritage NSW

Encl: Attachment A: Registered Aboriginal Interests – Goulburn Mulwaree Local Government Area

Attachment A: Registered Aboriginal Interests

Goulburn Mulwaree Local Government Area

Organisation/ Individual	Contact Name	Email Address/ Fax / Phone	Postal Address
Yurrandaali	Bo Field (Manager)	0403 048 263 yurrandaali_cs@hotmail.com	6 Macgibbon Parade, Old Errowal Bay NSW 2540
Barraby Cultural Services	Lee Field (Manager)	0431 314 892 barrabyculturalservices@gmail.com	10B Elphin Street, Tahmoor NSW 2573
Ngunnawal Elders Corporation	CEO Mr Arnold Williams	Mobile: 0431271500 not connected as at 18/11/14 blakneycreek@gmail.com	13 Fitzgibbon Place QUEANBEYAN NSW 2620
Pejar Local Aboriginal Land Council	Delise Freeman	Phone: (02) 4822 3552 Fax: (02) 4822 3551 pejar1@bigpond.com	80 Combermere St PO Box 289 GOULBURN NSW 2580
Buru Ngunawal Aboriginal Corporation	Wally Bell	Mobile: 0419 425 347 wabell@bigpond.net.au	PO Box 255 KIPPAX ACT 2615
Ngunnawal Elder		Phone: (02) 9831 5027	23 Wilton Road DOONSDALE NSW 2767
Gundungurra Aboriginal Heritage Association Inc.	Secretary Sharyn Halls		PO Box 31 LAWSON NSW 2783
Ngunawal Heritage Aboriginal Corporation	Mrs Dorothy Carroll	Mobile: 0412 176 081 Fax: (07) 5630 8597 ngunawalhac@gmail.com	245 Ash Road PRESTONS NSW 2170
Konanggo Aboriginal Cultural Heritage Services	Principal Consultant: Mr Robert Young	Phone: 0450 497 270 Email: konanggo_consultancy@hotmail.com	2/42 Crawford Road BRIGHTON LE SANDS NSW 2216
Yurwang Gundana Consultancy Cultural Heritage Services.	Dean Bell	Mobile: 0400 558 122 or 0419 142 862 ngunawal56@outlook.com	PO Box 5628 SOUTH WINDSOR NSW 2756
King Brown Tribal Group	Tina Brown	Mobile: 0414 283 216 tina.kingbrown@gmail.com	12 Pleasance Place BELCONNEN ACT 2617
Gunjeewong Cultural Heritage Aboriginal Corporation	Cherie Carroll Turrisse	Please contact via post.	1 Bellevue Place PORTLAND NSW 2847

Yukkumbruk	Serena Williams	Mobile: 0401 247 589 canberra.knockout@yahoo.com.au	14 Chipperfield Circuit GORDON ACT 2906
Corroboree Aboriginal Corporation	Director: Marilyn Carroll-Johnson	Phone:0415 911 159 Fax: (02) 8824 4324 corroboreecorp@bigpond.com	PO Box 3340 ROUSE HILL NSW 2155
Murri Bidgee Mullangari Aboriginal Corporation	Darleen Johnson	Mobile: 0490051102 or 0475 565 517 murrabidgeemullangari@yahoo.com.au	PO Box 3035 Rousehill NSW 2765
Nundagurri Aboriginal Corporation	Newton Carriage	Nundagurri@gmail.com	No address supplied
Walbunja	Hika Te Kowhai	Mobile: 0402 730 612 Walbunja@gmail.com	<u>15 Renee Crescent MORUYA HEADS NSW 2537</u>
Goobah Development Pty Ltd.	Chief Cultural Heritage Officer Basil Smith	Mobile: 0405 995 725 goobahchts@gmail.com	No address supplied
Gunyu	Kylie Ann Bell	gunyuchts@gmail.com	No address supplied
Wullung	Chairperson: Lee- Roy Boota	Mobile: 0403703942 wullunglb@gmail.com	54 Blackwood Street GERRINGONG NSW 2534
Badu	Chairperson: Karia Lea Bond	Mobile: 0476381207 baduchts@gmail.com	11 Jeffrey Place MORUYA NSW 2537
Yerramurra	Robert Parsons	yerramurra@gmail.com	No address supplied
Jerringong	Chairperson: Jodie Stewart	Mobile: 0422800184 jerringong@gmail.com	2/10 Burnett Avenue, GERRINGONG NSW 2534
Merrigarn Indigenous Corporation	Shaun Carroll	Mobile: 0400637554 merrigarn@hotmail.com	PO Box 246 SEVEN HILLS NSW 2147
Wingikara	Hayley Bell	wingikarachts@gmail.com	No address supplied
Bilinga	Simalene Carriage	bilingachts@gmail.com	No address supplied
Munyunga	Kaya Dawn Bell	munyungachts@gmail.com	No address supplied
Pemulwuy	Pemulwuy Johnson	pemulwuyd@gmail.com	No address supplied
Karrial	Karrial Johnson	karrialchts@gmail.com	No address supplied

Didge Ngunawal clan	Lillie Carroll	Mobile: 0450616404 or 0426823944 didgengunawalclan@yahoo.com.au	33 Carlyle crescent Cambridge Gardens NSW 2747
Ginninderra Aboriginal Corporation	Krystle Carroll	Mobile: 0451016224 ginninderra.corp@gmail.com	PO BOX 3143 GROSE VALE NSW 2754
Muragadi Heritage Indigenous Corporation	Jesse Johnson	Mobile: 0447970049 muragadi@yahoo.com.au	5 Hession Road NELSON NSW 2765
Gundungurra Tribal Council Aboriginal Corporation	Mr Eddy Neumann, Solicitor	Phone: (02) 92649933 en@eddyneumann.com.au	c/- Eddy Neumann Lawyers DX 11501 SYDNEY DOWNTOWN NSW 2000
Gundungurra Aboriginal Heritage Association Inc.	Mr Andrew White, Partner	Phone: (02) 47822199 awhite@benetatoswhite.com	c/- Benetatos White Solicitors & Attorneys DX 8307 KATOOMBA NSW 2780
THAUAIRA	Shane Carriage	thauairachts@gmail.com	No address supplied
WALGALU	Ronald Stewart	walgaluchts@gmail.com	No address supplied
Gadhu Dreaming	Gordon Campbell	Mobile: 0401342364 gordy2540@hotmail.com	No address supplied
Thunderstone Aboriginal Cultural and Land Management Services Aboriginal Corporation	Tyronne Bell	Mobile: 0407517844 thunderstonemg@gmail.com	PO Box 6900 CHARNWOOD ACT 2615
Duncan Falk Consultancy	Duncan Falk	Mobile: 0406 610 644 duncanfalk@hotmail.com	34 Robinia Drive BOWRAL NSW 2576
Thoorga Nura :	John Carriage	Mobile: 0401 641 299 thoorganura@gmail.com	50B Hilltop Crescent SURFBEACH NSW 2536
Janine Thompson	Janine Thompson	Mobile: 0438 182 603 janinethompson37@gmail.com	No address supplied
Ngurambang	Robert Monaghan	Mobile: 0408 242 970 wrightv000@gmail.com and bobbo492@gmail.com	108A Ortella St GRIFFITH NSW 2680
Clorine Lyons	Clorine Lyons	Mobile: 0416 599 380 wiraduricc@bigpond.com	12 Hunter St Mount Austin

			WAGGA WAGGA NSW 2650
Ngunawal Consultancy	Peiro Delponte	Mobile: 0422 281 150 pd.ngunawalconsultancy@gmail.com	No address supplied
Oak Hill Enterprises	Sonia Shea	Mobile: 0400 952 081 oakhillenterprises@bigpond.com	No address supplied
Gilay Consultants	Carol Slater	0478583565 cal.slater61@gmail.com	6 MacGibbon Parade, Old Errowal Bay NSW 2540
Ngunawal Heritage Aboriginal Corporation	Dean Delponte - Director	ngunawalhac@gmail.com 0413186133	245 Ash Road Prestons NSW 2170
Clive Freeman	Clive Freeman	Mobile: 0437721481 clive.freeman@y7mail.com	6 Dhugan Close Wreck Bay Aboriginal Community JBT 2540

Latisha Ryall

From: Daniel Clegg <Daniel.Clegg@environment.nsw.gov.au>
Sent: Monday, 17 May 2021 3:44 PM
To: Latisha Ryall
Subject: DPC Heritage NSW RAP List - Marulan Solar Farm (Carrick)
Attachments: HNSW Marulan Solar Farm_Carrick - Goulburn Mulwaree LGA.docx.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Latisha

Please find attached the DPC Heritage NSW RAP List for the Marulan Solar Farm – Carrick, Goulburn Mulwaree LGA.

Regards

Dan Clegg | Aboriginal Heritage Planning Support Officer

Heritage NSW, Community Engagement, Department of Premier and Cabinet
Level 2 - 512 Dean St, Albury NSW 2640 | PO Box 1040
T: (02) 6022 0639 | daniel.clegg@environment.nsw.gov.au



"Look after the land and rivers, and the land and rivers will look after you" Wongamaa – Snr Wiradhuri Elder

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APPENDIX D

NEWSPAPER ADVERTISEMENT-KOORI MAIL AND GOULBURN POST

WaterNSW

Lower Murray Groundwater Source

WaterNSW has received an application from Norman Robert McKenzie to amend an approval for a **Water Supply Work** by replacing a work, with a bore with a capacity of 300ML/year, an increase of 178ML at Lot 56 DP753723, Parish Billabong Forest, County Hume. The application relates to The Lower Murray Groundwater Source, subject to Water Sharing Plan for the Murray Alluvial Groundwater Sources.

Objections must be submitted in writing to WaterNSW, PO Box 453, Deniliquin NSW 2710 or customer.helpdesk@water.nsw.gov.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form water.nsw.gov.au/advertising-and-objections. All Objections should reference Application Number A026494. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact Jenny Camplin on 1300 662 077 or by email customer.helpdesk@water.nsw.gov.au

KH1156

WaterNSW

Lower Namoi Valley Floodplain

WaterNSW has received an application from **Coomalga Pty Ltd** for an approval for a **Flood Work for Access Roads**. Below Ground Channels, Levee and Storage (all proposed works) on Lot 18 of DP753951 Parish of Nowley, County of Jamison; Lots 6, 7, 9 of DP753904 Parish of Billabong, County of Jamison; Lot 11 of DP1088488, Lots 1, 2, 3 of DP250530, Lots 5, 9, 12, 13, 14, 16, 17, 21, 22 of DP753925, Lot 10 of DP1097156 Parish of Denham, County of Jamison and a Levee (existing work) on Lot 3 of DP250530, Lots 5, 12, 13, 21 of DP753925, Parish of Denham, County of Jamison. The works are subject to the Floodplain Management Plan for the Lower Namoi Valley Floodplain 2020.

Objections must be submitted in writing to PO Box 1251 TAMWORTH, NSW 2340 or to customer.helpdesk@water.nsw.gov.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form water.nsw.gov.au/advertising-and-objections. All Objections should reference Application Number A020837. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact Lachlan Welsman on 1300 662 077 or by email customer.helpdesk@water.nsw.gov.au.

KH1154

WaterNSW

Lower Namoi Valley Floodplain

WaterNSW has received an application from **Cudgewa Holdings Pty Ltd** for an approval to amend a **Flood Work** - extending a storage (proposed) on Lot 1 of DP107432, Parish of Tulladanna, County of Jamison. The work is subject to the Floodplain Management Plan for the Lower Namoi Valley Floodplain Order 2020. Objections must be submitted in writing to PO Box 1251 TAMWORTH, NSW 2340 or customer.helpdesk@water.nsw.gov.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form water.nsw.gov.au/advertising-and-objections. All Objections should reference Application Number A022975. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact Lachlan Welsman on 1300 662 077 or by email at customer.helpdesk@water.nsw.gov.au.

KH1155

WaterNSW

Liverpool Ranges Basalt MDB Groundwater Source

WaterNSW has received an application from **Allan James Davies and Lyn Margaret Davies** for an approval for a **Water Supply Work**, for a bore with a capacity of 50 ML/year at Lot 1 DP 1108673, Parish of Hudson, County of Buckland. The application relates to Liverpool Ranges Basalt MDB Groundwater Source, subject to the NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Water Sharing Plan.

Objections must be submitted in writing to WaterNSW, PO Box 1251 Tamworth NSW 2340 or customer.helpdesk@water.nsw.gov.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form water.nsw.gov.au/advertising-and-objections. All Objections should reference Application Number A026447. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact David Thomas on 1300 662 077 or by email customer.helpdesk@water.nsw.gov.au.

KH1150

Aboriginal Cultural Heritage Assessment Registration of Interest Marulan Solar Farm, Carrick NSW

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrain.com.au
Phone: 0400779641

The project will be assessed under the *NSW Environmental Planning and Assessment Act 1979* as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the *NSW National Parks and Wildlife Act 1974*. It may be possible that archaeological investigations under the provisions of the *NSW National Parks and Wildlife Act 1974* may be required during the preparation of the Environmental Impact Statement.

Terrain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.

The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

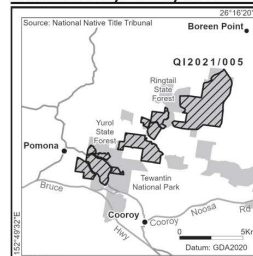
Please register your interest in the project by **2 June 2021** by contacting:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Email: latisha.ryall@premise.com.au
Phone: 02 6933 5000

Registrations should include a nominated contact, address, and phone number. Please note that the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (NSW DECCW 2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Pejar Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.



Notice of an application to register an area agreement on the Register of Indigenous Land Use Agreements in Queensland Notification day: 26 May 2021



Q12021/005 Yuroil and Ringtail ILUA

Description of the agreement area:

The agreement area consists of nine land parcels located in the Ringtail and Yuroil State Forests and the western part of the Tawantin National Park, with a combined area of approx. 20.5 sq km

Relevant LGA: Noosa Shire Council

The agreement contains the following statements:

[Explanatory notes in brackets inserted by the National Native Title Tribunal]

4.3 (a) The Parties consent to: (1) the Agreed Acts; and (2) the undertaking of the Project. 4.6 Subdivision P of Division Three of Part 2 of the NTA [Native Title Act 1993 (Cth)] is not intended to apply and does not apply to the Agreed Acts.

[Agreed Acts are, in relation to all or part of the ILUA Area: the registration of carbon abatement interests in favour of Greenfleet under the Land Act 1994 (Qld) or Nature Conservation Act 1992 (Qld) (NCA); the entry into an agreement under the Forestry Act 1959 (Qld) and the grant of an agreement under the NCA, for access for activities associated with forest restoration; the dedication of all or part of the ILUA Area as a protected area under the NCA; and any other future act necessary for the Agreed Acts to give effect to the Project.]

Project is the revegetation and restoration of the flora of the ILUA Area for the dual purpose of establishing a native biodiverse forest and sequestering carbon dioxide from the atmosphere.

Parties to the agreement and their contact addresses:

Greenfleet Australia (as Trustee for the Greenfleet Trust)	Level 4, 517 Flinders Lane Melbourne VIC 3000
Michael Douglas, Helena Gulash, Cecilia Combo, Melissa Bond, Norman Bond, Kerry Jones, Brian Warner in their capacity as Registered Native Title Claimants on behalf of the persons comprising the Native Title Claim Group for the Native Title Claim	c/- P&E Law PO Box 841 Maroochydore QLD 4558

Responses to an application to register an ILUA—where the application has not been certified:

Any person claiming to hold native title in relation to land or waters in the area covered by the agreement may wish, in response to this notice, to make a native title determination application or equivalent application under a law of a state or territory in respect of any part of the area. The application must be made by **26 August 2021**. If that application is registered on the Register of Native Title Claims, the registered native title claimants must be a party to this agreement before it can be registered.

Details of the terms of the agreement are not available from the National Native Title Tribunal.

For assistance and further information about this application, call Sylvia Jagtman on 07 3307 5000 or visit www.nntt.gov.au.

NOTICE OF PROPOSED GRANT OF A MINING LEASE

NATIVE TITLE ACT 1993 (Cth) SECTION 29

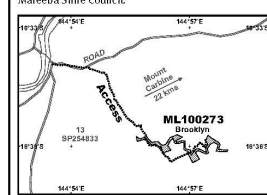
The Queensland Minister for Resources, PO Box 15216, City East, Queensland, 4002, hereby gives notice in accordance with section 29 of the *Native Title Act 1993* (Cth) of the proposed grant of Mining Lease (ML) 100273 and ML 100278 shown below under the *Mineral Resources Act 1989* (Qld).

Nature of Act(s): The grant of a Mining Lease under the *Mineral Resources Act 1989* (Qld) authorises the holder to mine and carry out associated activities subject to the *Mineral Resources Act 1989* (Qld) for a term not exceeding fifteen (15) years for ML 100273 and for a term not exceeding ten (10) years for ML 100278, with the possibility of renewals for terms not exceeding fifteen (15) years for ML 100273 and for terms not exceeding ten (10) years for ML 100278.

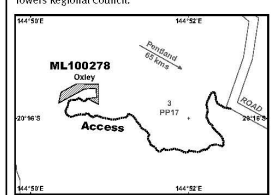
Name and Address of person doing Act(s): It is proposed that the Mining Lease be granted subject to the provisions of the *Mineral Resources Act 1989* (Qld) by the Queensland Minister for Resources, PO Box 15216, City East, Queensland, 4002.

Native Title Parties: Under the *Native Title Act 1993* (Cth) any person who is a "native title party" is entitled to certain rights in relation to the proposed grant of a Mining Lease. Under section 30 of the *Native Title Act 1993* (Cth), persons have until three (3) months after the Notification Day to take certain steps to become native title parties in relation to this notice. Enquiries in relation to filing a native title determination application may be directed to the Federal Court, Brisbane Registry, Level 6, Harry Gibbs Commonwealth Law Courts Building, 119 North Quay, Brisbane, Queensland, 4000. Telephone: (07) 3248 1100 or Email: qldreg@fedcourt.gov.au. Enquiries in relation to the registration of a native title determination application may be directed to the National Native Title Tribunal, Brisbane Registry, Level 5, Harry Gibbs Commonwealth Law Courts Building, 119 North Quay, Brisbane, Queensland, 4000. Telephone: (07) 3307 5000 or 1800 640 501.

Mining Lease 100273 sought by Kevin Alfred De Roma, over an area of 87.2 ha, centred approximately 22 km South West of Mount Carbine, in the locality of the Mareeba Shire Council.



Mining Lease 100278 sought by Clyde Ian DOXFORD, over an area of 17.55 ha, centred approximately 65 km North West of Pentland, in the locality of the Charters Towers Regional Council.



Further Information: Further information about the proposed grant of a Mining Lease, including extract of plans showing the boundaries of the Mining Lease Application may be obtained from the Department of Resources, Mining Registrar, Mineral Assessment Hub, Level 9, Verde Tower, 445 Flinders Street, Townsville, Queensland, 4810. Telephone: (07) 4447 9230 or Email: MineralHub@resources.qld.gov.au.

Notification Day: 9 June 2021.



GOULBURN POST – 19 MAY 2021

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Classifieds

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Legal Claims & Notices


Miscellaneous

Services

Tributes

1. This notice is not required to be published.
2. The proposed development will be in accordance with the ACTIA 2008 regulatory provisions.
3. In accordance with Section 8 of the 2008 Mobile Phone Base Station (Regulation) Code, we invite you to provide feedback about the proposed development.
4. Further information requests and/or comments should be directed to: tom@termain.com.au
5. Tom Allen, Project Development Manager, Termain Solar, Level 24, Tower 3, 300 Barangaroo Avenue, Sydney, NSW, 2000. Phone: 0400 079 641
6. You will accept comments on the proposed upgrade until 5pm Tuesday, 22 June 2021.

19/05/2021 - Public Notices

**Premise**
Aboriginal Cultural Heritage Assessment
Registration of Interest
Marulan Solar Farm, Carrick NSW

On behalf of Termain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Termain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@termain.com.au
Phone: 0400 079 641

The project will be assessed under the NSW Environmental Planning and Assessment Act 1979 as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the NSW National Parks and Wildlife Act 1974. It may be possible that archaeological investigations under the provisions of the NSW National Parks and Wildlife Act 1974 may be required during the preparation of the Environmental Impact Statement.

Termain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.



The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

Please register your interest in the project by **2 June 2021** by contacting:

Lalisha Ryall
Premise Australia Pty Ltd
PO Box 1903
ORANGE NSW 2800
Email: lalisha.ryall@premise.com.au
Phone: 02 6393 5000

Registrations should include a nominated contact address, and phone number. Please note that the Aboriginal Cultural Heritage Consultation Requirements for Proponents (NSW DECOW 2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Parramatta Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

19/05/2021 - Public Notices



The NSW National Parks & Wildlife Service will be conducting an aerial baiting program for wild dogs using 1060 meat baits. The programs will occur in Bungah NP, Budawang NP, Tarto River



**Aboriginal Cultural Heritage Assessment
Registration of Interest
Marulan Solar Farm, Carrick NSW**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400 079 641

The project will be assessed under the NSW *Environmental Planning and Assessment Act 1979* as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the NSW *National Parks and Wildlife Act 1974*. It may be possible that archaeological investigations under the provisions of the NSW *National Parks and Wildlife Act 1974* may be required during the preparation of the Environmental Impact Statement.

Terrain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.

The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

Please register your interest in the project by **2 June 2021** by contacting:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Email: latisha.ryall@premise.com.au
Phone: 02 6393 5000

Registrations should include a nominated contact, address, and phone number. Please note that the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (NSW DECCW 2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Pejar Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.



APPENDIX E

HERITAGE NSW & LALC RAP NOTIFICATION

Our Ref: 221106_4.1.6_RAP Agency Notification Letter_Pejar LALC.docx

9 June 2021

Delise Freeman
CEO
Pejar Local Aboriginal Land Council
PO Box 289
Goulburn NSW 2580

Via email: pejar1@bigpond.com

Dear Delise

MARULAN SOLAR FARM PROPOSED DEVELOPMENT – SECTION 4.1.6 - ABORIGINAL CULTURAL HERITAGE ASSESSMENT

Premise Australia Pty Ltd on behalf of Terrain Solar is undertaking an Aboriginal cultural heritage assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres (km) west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm. Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have now been received which specify during the preparation of the Environmental Impact Statement an Aboriginal Cultural Heritage Assessment Report (ACHAR) is required to identify and describe the Aboriginal cultural heritage values that will be impacted by the proposed development.

The ACHAR will:

- identify cultural heritage values in accordance with the Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW (OEH 2010), and be guided by the Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with Section 4.1.6 of the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), please find below a list of Registered Stakeholders for the project.

The fifteen registered Aboriginal stakeholders include:

- Freeman&marx Pty Ltd
- Corroboree Aboriginal Corporation
- Didge Ngunawal Clan (DNC)
- Duncan Falk Consultancy
- Konanggo Aboriginal Cultural Heritage Services
- Merrigarn Indigenous Corporation
- Mulwaree Aboriginal Community Inc
- Muragadi Heritage Indigenous Corporation
- Murri Bidgee Mullangari Aboriginal Corporation
- Ngunawal Consultancy
- Ngunnawal Elders Corporation
- Undisclosed registration
- Buru Ngunawal Aboriginal Corporation (BNAC)
- Pejar LALC
- Yurwang Gundana Cultural Heritage Services

Also included is a copy of the published Step 4.1.3 advertisement providing an invitation to register interest in the project. The advertisement was published in the Koori Mail and Goulburn Post on 19 May 2021 with a closing date for response on the 2 June 2021.

A copy of the registration of interest letter sent to all stakeholders on 19 May 2021 with a closing date for response 2 June 2021, identified during Step 4.1.2 is also included below.

If you would like to discuss any of these details, or have any comments, please do not hesitate to contact me.

Yours sincerely



LATISHA RYALL
Archaeologist

From: [Latisha Ryall](#)
To: pejar1@bigpond.com
Subject: RE: 4.1.6 Notification of RAP list for Marulan Solar Farm project_ Pejar LALC Response
Date: Wednesday, 16 June 2021 11:14:44 AM

Thanks Delise,

The proponent has not yet consulted with us regarding the field work component as yet. We will keep you updated throughout the consultation process.



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: pejar1@bigpond.com <pejar1@bigpond.com>
Sent: Wednesday, 16 June 2021 11:09 AM
To: Latisha Ryall <latisha.ryall@premise.com.au>
Subject: RE: 4.1.6 Notification of RAP list for Marulan Solar Farm project_ Pejar LALC Response

Morning Latisha

thank you for your email.

There are currently 2 groups that have local Knowledge over the others, we have and continue to work with That is Buru Ngunnawal – Wally Bell and ourselves, Pejar LALC. The rest who say they have local knowledge have none.

Also you need to remember that under the Guidelines the proponent gets to choose who is involved in the fieldwork and has chosen only us and Buru Ngunnawal. The rest have only been consulted.

Kind regards

Delise

From: Latisha Ryall <latisha.ryall@premise.com.au>
Sent: Wednesday, 16 June 2021 11:01 AM
To: Pejar LALC <pejar1@bigpond.com>
Subject: RE: 4.1.6 Notification of RAP list for Marulan Solar Farm project_ Pejar LALC Response

Good morning Delise

Thank you for your response regarding consultation for the Marulan Solar Farm project.

I understand your concerns, however we have done consultation in accordance with the guidelines which means we have to register those who have shown an interest for the project.

I am working with Ben Churcher from OzArk Environment & Heritage on this project, and we are aware of who has local knowledge of the area. We will always try to engage with those parties with local knowledge more comprehensively.

In regards to field work we will also engage local groups over those who have registered outside of the area.

If you would like to discuss further, please do not hesitate to give me a call. I look forward to working with you on the project.

Latisha Ryall



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



From: Pejar LALC <pejar1@bigpond.com>

Sent: Thursday, 10 June 2021 9:58 AM

To: Latisha Ryall <latisha.ryall@premise.com.au>

Subject: RE: 4.1.6 Notification of RAP list for Marulan Solar Farm project_ Pejar LALC

Thank you for your letter. We are very concerned that these people who have put an interest in for this project have no local knowledge for the area. There are certain groups that we feel should not even be included in this consultation requirement. How can you deal with these people when they aren't even of Aboriginal Descent.

If you would like to discuss this, then please do not hesitate to contact me on the numbers listed below.

Delise Freeman, JP
CEO
Pejar Local Aboriginal Land Council
80 Combermere Street
Or PO Box 289
Goulburn NSW 2580
(T) 0248223552
(F) 0248223551
(M) 0417254813

From: Latisha Ryall <latisha.ryall@premise.com.au>

Sent: Wednesday, 9 June 2021 1:24 PM

To: pejar1@bigpond.com

Subject: 4.1.6 Notification of RAP list for Marulan Solar Farm project_ Pejar LALC

Good afternoon Delise,

As part of Section 4.1.6 of the *Aboriginal cultural heritage consultation requirements for proponents*, please find attached a list of Registered Aboriginal Parties for the Marulan Solar Farm project. The attached document also includes a copy of the Advert printed in the Koori Mail and Goulburn Post as well as a copy of the notification letter sent to potential stakeholders (as a requirement from section 4.1.3).

Kind regards,



LATISHA RYALL
Archaeologist

T 02 6393 5000 | **M** 0429 777 741
E latisha.ryall@premise.com.au
A 154 Peisley St, Orange 2800



Our Ref: 221106_4.1.6_RAP Agency Notification Letter_Heritage NSW .docx

9 June 2021

Daniel Clegg
Aboriginal Heritage Planning Support Officer
Heritage NSW
PO Box 1040
ALBURY NSW 2640

Via email: daniel.clegg@environment.nsw.gov.au and barry.gunther@environmnt.nsw.gov.au

Dear Daniel

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.6 - ABORIGINAL CULTURAL HERITAGE ASSESSMENT**

Premise Australia Pty Ltd on behalf of Terrain Solar is undertaking an Aboriginal cultural heritage assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres (km) west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm. Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have now been received which specify during the preparation of the Environmental Impact Statement an Aboriginal Cultural Heritage Assessment Report (ACHAR) is required to identify and describe the Aboriginal cultural heritage values that will be impacted by the proposed development.

The ACHAR will:

- identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with Section 4.1.6 of the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), please find below a list of Registered Stakeholders for the project.

The fifteen registered Aboriginal stakeholders include:

- Freeman&marx Pty Ltd
- **Corroboree Aboriginal Corporation (do not want details forwarded to Pejar LALC)**
- Didge Ngunawal Clan (DNC)
- Duncan Falk Consultancy
- Konanggo Aboriginal Cultural Heritage Services
- Merrigarn Indigenous Corporation
- Mulwaree Aboriginal Community Inc
- Muragadi Heritage Indigenous Corporation
- Murri Bidgee Mullangari Aboriginal Corporation
- Ngunawal Consultancy
- Ngunnawal Elders Corporation
- **Ngunawal Heritage Aboriginal Corporation (do not want details forwarded to Pejar LALC)**
- Buru Ngunawal Aboriginal Corporation (BNAC)
- Pejar LALC
- Yurwang Gundana Cultural Heritage Services

Also included is a copy of the published Step 4.1.3 advertisement providing an invitation to register interest in the project. The advertisement was published in the Koori Mail and Goulburn Post on 19 May 2021 with a closing date for response on the 2 June 2021.

A copy of the registration of interest letter sent to all stakeholders on 19 May 2021 with a closing date for response 2 June 2021, identified during Step 4.1.2 is also included below.

If you would like to discuss any of these details, or have any comments, please do not hesitate to contact me.

Yours sincerely



LATISHA RYALL
Archaeologist

4.1.3 ADVERT Goulburn Post

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1. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

2. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

3. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

4. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

5. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

6. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.


7. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

8. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

9. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

10. To ensure a fair and open process, the proponent must comply with the ACTHAR (Aboriginal Cultural Heritage Assessment Report) requirements.

19/05/2021 - Public Notices


Premise

Aboriginal Cultural Heritage Assessment

Registration of Interest

Manulan Solar Farm, Carrick NSW

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Manulan in the Goulburn Mulwaree - Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400 079 641

The project will be assessed under the NSW Environmental Planning and Assessment Act 1979 as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the NSW National Parks and Wildlife Act 1974. It may be possible that archaeological investigations under the provisions of the NSW National Parks and Wildlife Act 1974 may be required during the preparation of the Environmental Impact Statement.

Terrain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.



The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

Please register your interest in the project by **2 June 2021** by contacting:

Lafisha Ryall
Premise Australia Pty Ltd
PO Box 1903
ORANGE NSW 2800
Email: lafisha.ryall@premise.com.au
Phone: 02 6393 5000

Registrations should include a nominated contact, address, and phone number. Please note that the Aboriginal Cultural Heritage Consultation Requirements for Proponents (NSW DEC/2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Pejar Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

19/05/2021 - Public Notices

The NSW National Parks & Wildlife Service will be conducting an aerial baiting program for wild dogs using 1080 bait baits. The programs will occur in Bugeong NP, Budawang NP, Taro River

19/05/2021 - Public Notices



**Aboriginal Cultural Heritage Assessment
Registration of Interest
Marulan Solar Farm, Carrick NSW**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400 079 641

The project will be assessed under the NSW *Environmental Planning and Assessment Act 1979* as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the NSW *National Parks and Wildlife Act 1974*. It may be possible that archaeological investigations under the provisions of the NSW *National Parks and Wildlife Act 1974* may be required during the preparation of the Environmental Impact Statement.

Terrain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.

The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

Please register your interest in the project by **2 June 2021** by contacting:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Email: latisha.ryall@premise.com.au
Phone: 02 6393 5000

Registrations should include a nominated contact, address, and phone number. Please note that the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (NSW DECCW 2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Pejar Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

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All hail the First Nations queens



BEST: A woman held a torch aloft in the air, as the crowd cheered and sang. She was one of the many who had gathered for the ceremony at the Sydney Opera House. The women were dressed in traditional Indigenous dress, and the ceremony was a celebration of the First Nations people.

NT youth justice laws are a step backwards

ABORIGINAL legal and social justice organisations have slammed the Northern Territory Government for harsh new youth justice laws, saying they will increase the number of Aboriginal children in jail.

Aboriginal leaders from across the territory have condemned the reforms, saying they roll back official recommendations from the 2015-2017 Royal Commission into the Protection and Detention of Children in the Northern Territory.

Chief Minister Tony Bligh, who warned as a special counsel to the royal commission into youth detention, said the legislation was disproportionate.

“These amendments appear to be a hastily considered knee-jerk reaction to the story on A Current Affair,” he said. “To say it is disproportionate is an understatement.”

“This government, in its second term, should have the maturity and courage to do what they know and have been told is right and not pander to the media. This legislation will see the juvenile and adult incarceration rates rise in the short and long term.”

Yorta Yorta and Indan woman Maria Singh is legal director at the Human Rights Law Centre in Melbourne.

She said the Royal Commission the Northern Territory Government has turned its back on Aboriginal children in the Northern Territory.

“Here we are all wondering what the Don Case Royal Commission was for,” Ms Singh said.

“Our greatest fear is that these laws will lead to the death of a child in custody.”

In stark contrast, there was cause for optimism from Ms Singh’s work with figures from the Bureau of Crime Statistics and Research showing that there has been a 25% drop in the number of young indigenous people in custody.

● Full report, page 8

Indigenous Leadership Opportunity

Join high performing Aboriginal and Torres Strait Islander managers seeking a unique pathway to executive roles.

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Find out more at www.apgw.edu.au/ielop

Aboriginal Cultural Heritage Assessment Registration of Interest Marulan Solar Farm, Carrick NSW

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

The project will be assessed under the *NSW Environmental Planning and Assessment Act 1979* as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the *NSW National Parks and Wildlife Act 1974*. It may be possible that archaeological investigations under the provisions of the *NSW National Parks and Wildlife Act 1974* may be required during the preparation of the Environmental Impact Statement.

Terrain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.

The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

Please register your interest in the project by **2 June 2021** by contacting:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Email: latisha.ryall@premise.com.au
Phone: 02 6393 5000

Registrations should include a nominated contact, address, and phone number. Please note that the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (NSW DECCW 2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Pejar Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

WaterNSW
Lower Namoi Groundwater Source

WaterNSW has received an application from **Norman Robert McKenzie** to amend an approval for a **Water Supply Work** by replacing a work, with a Bore with a capacity of 300ML/year, an increase of 178ML, at Lot 56 DP753723, Parish Billabong Forest, County Hume. The application relates to The Lower Murray Groundwater Source, subject to Water Sharing Plan for the Murray Alluvial Groundwater Sources.

Objections must be submitted in writing to WaterNSW, PO Box 453, Deniliquin NSW 2710 or customer.helpdesk@waterNSW.com.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form waterNSW.com.au/advertising-and-objections. All Objections should reference Application Number A026494. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact Jenny Campton, on 1300 662 077 or by email customer.helpdesk@waterNSW.com.au

KH1156

WaterNSW
Lower Namoi Valley Floodplain

WaterNSW has received an application from **Coomaligah Pty Ltd** for an approval for a **Flood Work for Access Roads**, Below Ground Channels, Levee and Storage (all proposed works) on Lot 18 of DP753951 Parish of Nowley, County of Jamison; Lots 6, 7, 9 of DP753904 Parish of Billabong, County of Jamison; Lot 11 of DP1068498, Lots 1, 2, 3 of DP250530, Lots 5, 9, 12, 13, 14, 16, 17, 21, 22 of DP753925, Lot 10 of DP1097156 Parish of Denham, County of Jamison and a Levee (existing work) on Lot 3 of DP250530, Lots 5, 12, 13, 21 of DP753925, Parish of Denham, County of Jamison. The works are subject to the Floodplain Management Plan for the Lower Namoi Valley Floodplain 2020.

Objections must be submitted in writing to PO Box 1251 TAMWORTH, NSW 2340 or to customer.helpdesk@waterNSW.com.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form waterNSW.com.au/advertising-and-objections. All Objections should reference Application Number A020817. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact Lachlan Welman on 1300 662 077 or by email customer.helpdesk@waterNSW.com.au

KH1154

WaterNSW
Lower Namoi Valley Floodplain

WaterNSW has received an application from **Cudgewa Holdings Pty Ltd** for an approval to amend a **Flood Work** – extending a storage (proposed) on Lot 1 of DP107432, Parish of Tulladanna, County of Jamison. The work is subject to the Floodplain Management Plan for the Lower Namoi Valley Floodplain Order 2020. Objections must be submitted in writing to PO Box 1251 TAMWORTH, NSW 2340 or customer.helpdesk@waterNSW.com.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form waterNSW.com.au/advertising-and-objections. All Objections should reference Application Number A022975. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact Lachlan Welman on 1300 662 077 or by email customer.helpdesk@waterNSW.com.au

KH1155

WaterNSW
Liverpool Ranges Basalt MDB Groundwater Source

WaterNSW has received an application from **Allan James Davies and Lyn Margaret Davies** for an approval for a **Water Supply Work**, for a bore with a capacity of 30 ML/year at Lot 1 DP 1103673, Parish of Hudson, County of Buckland. The application relates to Liverpool Ranges Basalt MDB Groundwater Source, subject to the NSW Murray Darling Basin Fractured Rock Groundwater Sources 2020 Water Sharing Plan.

Objections must be submitted in writing to WaterNSW, PO Box 1251 Tamworth NSW 2340 or customer.helpdesk@waterNSW.com.au. Objections must specify the grounds of the Objection and contain the name, address and signature (or authentication) of the Objector. You may use the Objection form waterNSW.com.au/advertising-and-objections. All Objections should reference Application Number A026447. Objections must be lodged with WaterNSW within 28 days of this Notice, please refer to the NSW Water Register ("closing date" column) for the final date to lodge an Objection. For enquiries contact David Thomas on 1300 662 077 or by email customer.helpdesk@waterNSW.com.au

KH1150

Aboriginal Cultural Heritage Assessment
Registration of Interest
Marulan Solar Farm, Carrick NSW

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The proponent's contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

The project will be assessed under the *NSW Environmental Planning and Assessment Act 1979* as State Significant Infrastructure and will not require an Aboriginal Heritage Impact Permit under the *NSW National Parks and Wildlife Act 1974*. It may be possible that archaeological investigations under the provisions of the *NSW National Parks and Wildlife Act 1974* may be required during the preparation of the Environmental Impact Statement.

Terrain Solar is inviting Aboriginal groups and individuals who hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or values in the locality, to register an interest for the proposed development in a process of community consultation with the proponent.

The purpose of community consultation is to inform the proponent in the preparation of the Aboriginal Cultural Heritage Assessment Report (ACHAR).

Please register your interest in the project by 2 June 2021 by contacting:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Email: latisha.ryall@premise.com.au
Phone: 02 6393 5000

Registrations should include a nominated contact, address, and phone number. Please note that the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (NSW DECCW 2010) guidelines require the proponent to provide details of registered Aboriginal parties to Heritage NSW and Pejar Local Aboriginal Land Council. In your response could you please advise if you would not like your details to be provided.

Lifeline
13 11 14

Notice of an application to register an area agreement on the Register of Indigenous Land Use Agreements in Queensland
Notification day: 26 May 2021

Q12021/005 Yurul and Ringtail ILUA
Description of the agreement area:
The agreement area consists of nine land parcels located in the Ringtail and Yurul State Forests and the western part of the Tawantin National Park, with a combined area of approx. 20.5 sq km
Relevant LGA: Noosa Shire Council

The agreement contains the following statements:
[Explanatory notes in brackets inserted by the National Native Title Tribunal]
4.3 (a) The Parties consent to: (1) the Agreed Acts; and (2) the undertaking of the Project.
4.6 Subdivision P of Division Three of Part 2 of the NTA [Native Title Act 1993 (Cth)] is not intended to apply and does not apply to the Agreed Acts.
[Agreed Acts are, in relation to all or part of the ILUA Area: the registration of carbon abatement interests in favour of Greenfleet under the Land Act 1994 (Qld) or Nature Conservation Act 1992 (Qld) (NCA); the entry into an agreement under the Forestry Act 1959 (Qld) and the grant of an agreement under the NCA, for access for activities associated with forest restoration; the dedication of all or part of the ILUA Area as a protected area under the NCA; and any other future act necessary for the Agreed Acts to give effect to the Project].

Project is the revegetation and restoration of the flora of the ILUA Area for the dual purpose of establishing a native biodiverse forest and sequestering carbon dioxide from the atmosphere.

Parties to the agreement and their contact addresses:

Greenfleet Australia (as Trustee for the Greenfleet Trust)	Level 4, 517 Flinders Lane Melbourne VIC 3000
Michael Douglas, Helena Gulash, Cecilia Combo, Melissa Bond, Norman Bond, Kerry Jones, Brian Warner in their capacity as Registered Native Title Claimants on behalf of the persons comprising the Native Title Claim Group for the Native Title Claim	c/- P&E Law PO Box 841 Maroochydore QLD 4558

Responses to an application to register an ILUA—where the application has not been certified:
Any person claiming to hold native title in relation to land or waters in the area covered by the agreement may wish, in response to this notice, to make a native title determination application or equivalent application under a law of a state or territory in respect of any part of the area. **The application must be made by 26 August 2021.** If that application is registered on the Register of Native Title Claims, the registered native title claimants must be a party to this agreement before it can be registered.

Details of the terms of the agreement are not available from the National Native Title Tribunal.
For assistance and further information about this application, call Sylvia Jagtman on 07 3307 5000 or visit www.nntt.gov.au.

NOTICE OF PROPOSED GRANT OF A MINING LEASE

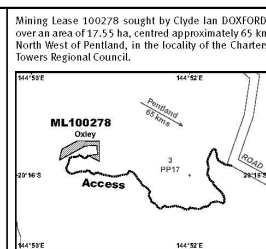
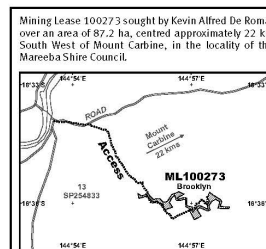
NATIVE TITLE ACT 1993 (CTH) SECTION 29

The Queensland Minister for Resources, PO Box 15216, City East, Queensland, 4002, hereby gives notice in accordance with section 29 of the *Native Title Act 1993 (Cth)* of the proposed grant of Mining Lease (ML) 100273 and ML 100278 shown below under the *Mineral Resources Act 1989 (Qld)*.

Nature of Act(s): The grant of a Mining Lease under the *Mineral Resources Act 1989 (Qld)* authorises the holder to mine and carry out associated activities subject to the *Mineral Resources Act 1989 (Qld)* for a term not exceeding fifteen (15) years for ML 100273 and for a term not exceeding ten (10) years for ML 100278, with the possibility of renewals for terms not exceeding fifteen (15) years for ML 100273 and for terms not exceeding ten (10) years for ML 100278.

Name and Address of person doing Act(s): It is proposed that the Mining Lease be granted subject to the provisions of the *Mineral Resources Act 1989 (Qld)* by the Queensland Minister for Resources, PO Box 15216, City East, Queensland, 4002.

Native Title Parties: Under the *Native Title Act 1993 (Cth)* any person who is a "native title party" is entitled to certain rights in relation to the proposed grant of a Mining Lease. Under section 30 of the *Native Title Act 1993 (Cth)*, persons have until three (3) months after the Notification Day to take certain steps to become native title parties in relation to this notice. Enquiries in relation to filing a native title determination application may be directed to the Federal Court, Brisbane Registry, Level 6, Harry Gibbs Commonwealth Law Courts Building, 119 North Quay, Brisbane, Queensland, 4000. Telephone: (07) 3248 1100 or Email: qldreg@fedcourt.gov.au. Enquiries in relation to the registration of a native title determination application may be directed to the National Native Title Tribunal, Brisbane Registry, Level 5, Harry Gibbs Commonwealth Law Courts Building, 119 North Quay, Brisbane, Queensland, 4000. Telephone: (07) 3307 5000 or 1800 640 501.



Further Information: Further information about the proposed grant of a Mining Lease, including extract of plans showing the boundaries of the Mining Lease Application may be obtained from the Department of Resources, Mining Registrar, Mineral Assessment Hub, Level 9, Verde Tower, 445 Flinders Street, Townsville, Queensland, 4810. Telephone: (07) 4447 9230 or Email: MineralHub@resources.qld.gov.au.

Notification Day: 9 June 2021.



Our Ref: 221106_Registration of Interest Letter .docx

18 May 2021

Group
Address

Via email:

Dear

**MARULAN SOLAR FARM PROPOSED DEVELOPMENT –
SECTION 4.1.2 IDENTIFICATION OF POTENTIAL INTERESTED PARTIES**

On behalf of Terrain Solar (the Proponent), Premise Australia Pty Ltd is undertaking an Aboriginal Cultural Heritage Assessment for a proposed solar farm development on land in Carrick, NSW approximately 5 kilometres west of the town of Marulan in the Goulburn Mulwaree Local Government Area. The development is referred to as the Marulan Solar Farm and includes Lot 55 DP 1141136.

Premise has been engaged by Terrain Solar to complete consultation in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010) for the proposed works.

The project is being assessed as a State Significant Development under the NSW *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) for the project have now been issued (SSD 13137914), which includes the following requirements:

- identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (OEH 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW, 2011) and consultation with Heritage NSW.
- consult with Aboriginal people and documented in accordance with the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW 2010)
- assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations will be completed as part of this assessment, the results of which will be documented in the ACHAR.
- outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

In accordance with these requirements, Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

The proponents contact details are:

Tom Allen
Project Development Manager
Terrain Solar
Level 24, Tower 3, 300 Barangaroo Avenue
Sydney, NSW, 2000
Email: tom@terrainsolar.com
Phone: 0400079641

If you hold cultural knowledge of the Carrick, Marulan and Goulburn-Mulwaree area, we invite you to register your interest in the process of community consultation. Please forward your registration of interest in writing before **2 June 2021** to:

Latisha Ryall
Premise Australia Pty Ltd
PO Box 1963
ORANGE NSW 2800
Ph. 02 6393 5000
Email: latisha.ryall@premise.com.au

Please be advised that, in accordance with the consultation requirements, if you are registering an interest in the project your contact details will be forwarded to Heritage NSW and Pejar Local Aboriginal Land Council, unless you specify that you do not wish your contact details to be released.

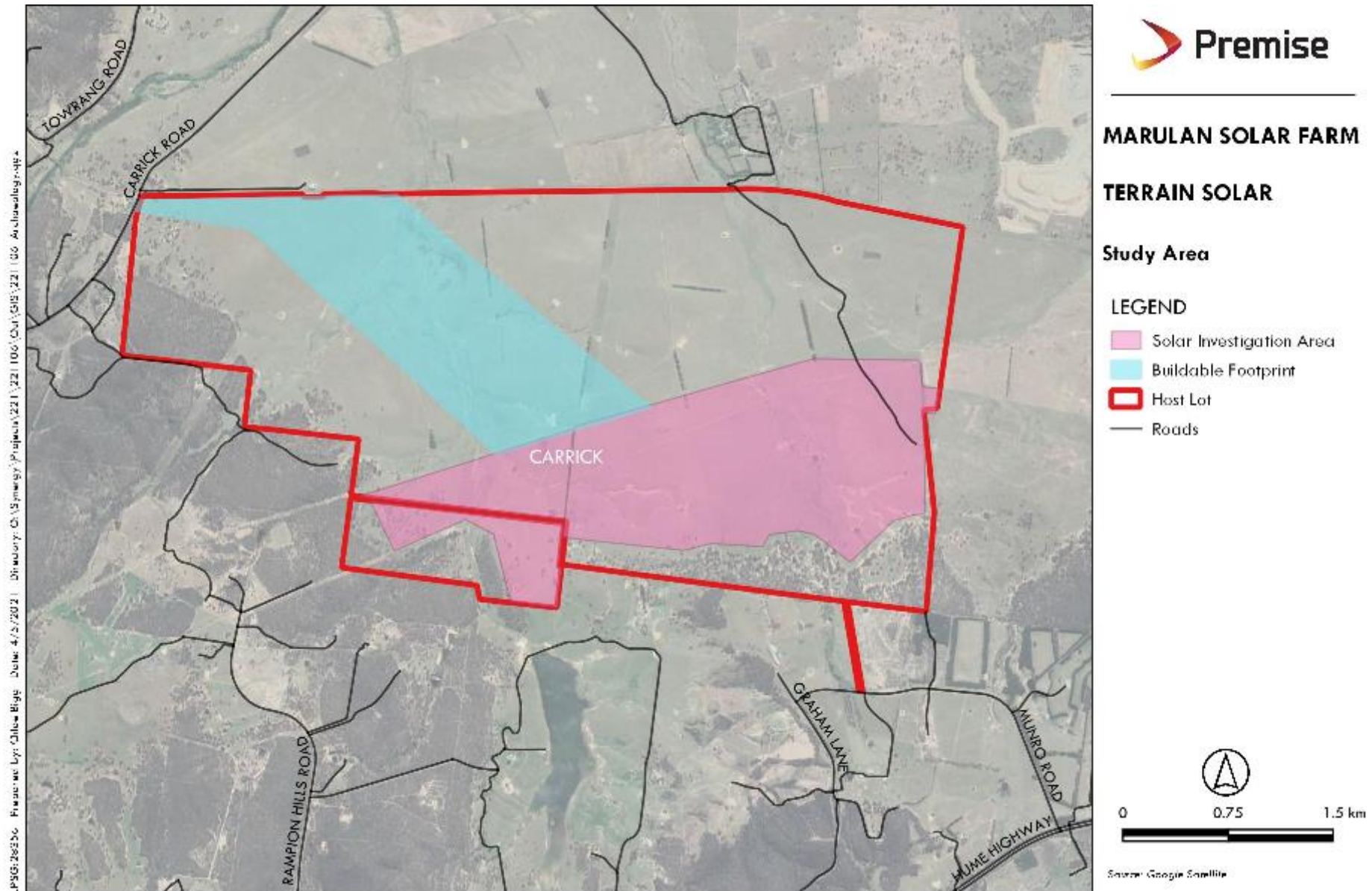
If you require any additional information, I can be contacted via phone or email.

Yours sincerely



LATISHA RYALL
Archaeologist

Figure 1 – Study Area





APPENDIX F

DRAFT ASSESSMENT AND SURVEY METHODOLOGY



Premise

TERRAIN SOLAR

Marulan Solar Farm

DRAFT ACHAR METHODOLOGY



Report No: 221106_ACHAR_Methodology/R0001

Rev: D

24 August 2021

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DOCUMENT AUTHORISATION					
Revision	Revision Date	Report Details			
A	07/07/21	DRAFT Internal Review			
B	03/08/21	DRAFT Client Review			
C	18/08/21	DRAFT Client Review 002			
D	24/08/2021	DRAFT Client Review 003 and DRAFT issue to RAPs			
Prepared By		Reviewed By		Authorised By	
Latisha Ryall		Ben Churcher	OzArk EHM	Latisha Ryall	

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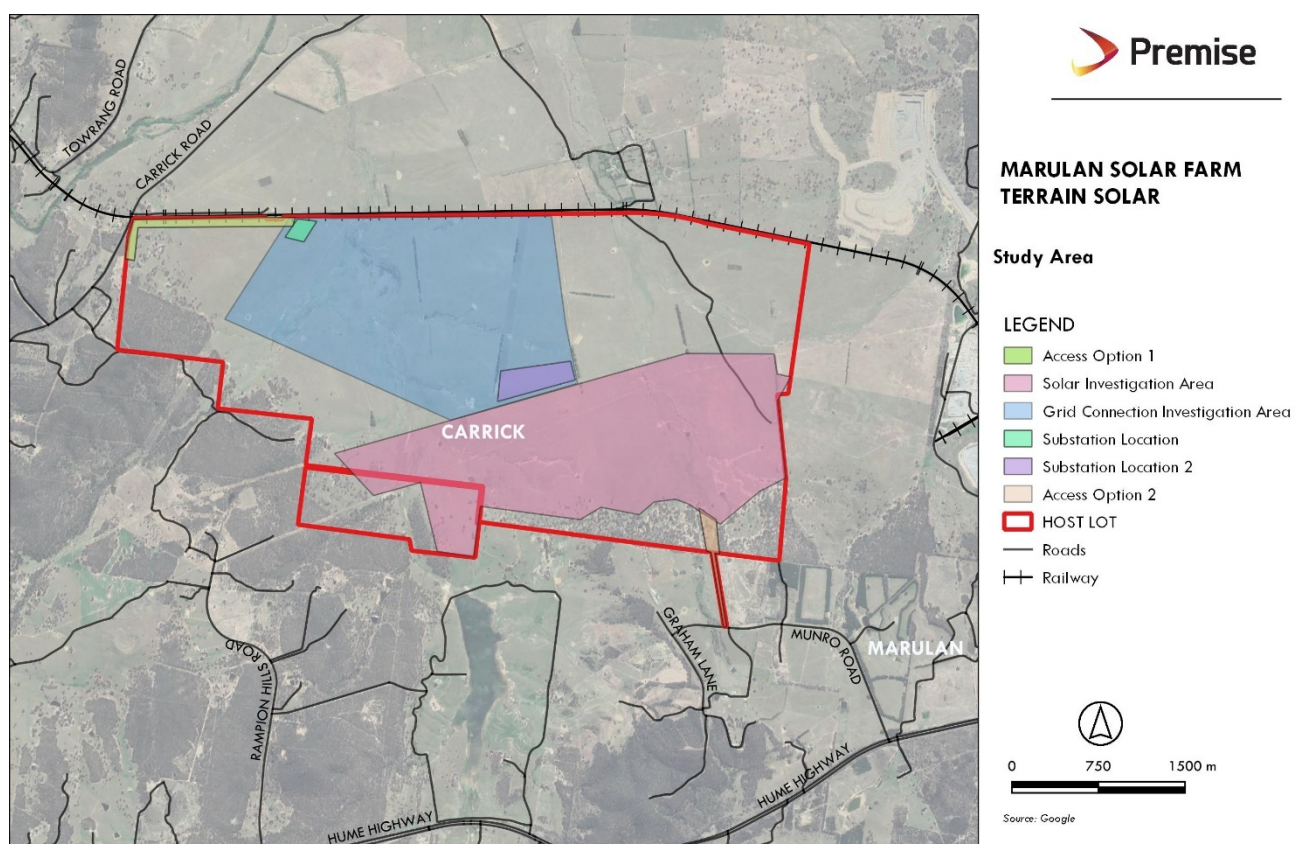
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1. INTRODUCTION

Premise Australia and OzArk Environment & Heritage have been engaged by Terrain Solar to complete an Aboriginal Cultural Heritage Assessment Report (ACHAR) for a proposed solar farm in Marulan NSW referred to as the Marulan Solar Farm (MSF) project. The MSF is in the Goulburn Mulwaree Local Government Area (LGA). The location of the Marulan Solar Farm is shown on **Figure 1**. The terms 'host lot' and 'study area' are defined below. The study area includes the solar investigation area, grid connection routes, proposed substation locations and access options.

Figure 1 – Marulan Solar Farm Host Lot and Study Area



This methodology is prepared in accordance with Stage 3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (ACHCRs). The project information provided in this methodology also complies with Stage 2 of the ACHCRs.

1.1 Project Overview

Terrain Solar is proposing to develop an approximately 150 megawatt (MW) solar farm, plus an optional battery energy storage system with a potential capacity of up to 100 MW on land approximately five kilometres (km) west of the NSW town of Marulan, NSW.

The MSF is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have been received. The SEARs specify that an Environmental Impact Statement (EIS) must be

prepared and that the EIS include an ACHAR to identify and describe the Aboriginal cultural heritage values that may be impacted by the proposed development.

The ACHAR will:

- Identify cultural heritage values in accordance with the *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW* (Code of Practice; DECCW 2010), and be guided by the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (the Guide; OEH 2011) and consultation with Heritage NSW.
- Consult with Aboriginal people and documented in accordance with the ACHCRs (DECCW 2010b).
- Assess the impacts of the development on Aboriginal cultural heritage values and demonstrate conservation attempts to avoid impacts and where impacts are unavoidable provide mitigation measures.
- Include surface survey to inform the need for target test excavation to better assess the integrity, extent, distribution, nature, and overall significance of the archaeological record. Test excavations may be completed as part of this assessment, the results of which will be documented in the ACHAR.
- Outline procedures for management of the discovery of Aboriginal objects and/or Aboriginal burials or skeletal material found at any stage of the life of the development.

1.1.1 MARULAN SOLAR FARM

Terrain Solar identified the MSF site during a thorough screening process to identify suitable large scale solar sites in New South Wales. The proposed site has a strong high voltage transmission network with significant available capacity to connect into the National Electricity Market. The development site is currently used for farming and grazing and would not require significant civil works in preparation for construction.

The MSF is intended to provide solar infrastructure to the Goulburn Mulwaree region, providing a good solar resource, suitable land use and network connection opportunities. Goulburn is a growing regional centre with a number of growth prospects. New clean energy generation will contribute to the sustainability of the town.

The MSF will provide local economic benefits such as employment and provide new capabilities to the area, whilst on a state level it ensures renewable energy is generated and consumed within NSW promoting the growth of the solar industry. The annual carbon emissions avoided through generation of clean energy will be significant. Solar projects are a relatively new development in Australia despite being well established in overseas markets. MSF will contribute to reducing the cost of large scale solar in Australia by adding to the experience base of the local supply chain.

The proposed site is ideally suited for a solar PV facility. Its proximity to the nearby transmission network minimises the connection infrastructure required and minimises the associated cost burden. The nearby transmission network has been assessed to have spare capacity to accept the connection. The site terrain is ideally suited as it is relatively flat and has been generally cleared of upper stratum and native vegetation. Therefore, very little site preparation will be required prior to installing the facility. There is minimal flooding risk. Site access is also excellent from the adjacent local roads.

1.1.2 ABORIGINAL HERITAGE

Previous Aboriginal heritage investigations were undertaken as part of an environmental assessment of the development area in 2017 (Pitt & Sherry 2017), discussed further in **Section 3.2.2**. It was proposed that as part of the EIS a specialist Aboriginal heritage assessment in the form of an ACHAR would be undertaken

prior to the commencement of works to identify potential impacts, and necessary management and mitigation measures.

1.2 The Host Lot

The host lot is located at 740 Carrick Road, Carrick (also known as Lot 55 DP1141136). Lot 55 is part of a larger landholding in single ownership. The host lot falls within the Pejar Local Aboriginal Land Council (LALC) boundary.

Carrick Road, a local road connecting to the Hume Highway in the south and Brayton Road in the north, passes the host lot at the north-western extent and the Main Southern Railway is located to the north of the host lot.

The host lot shown on **Figure 1** contains the study area within which all proposed project components will be located. The archaeological survey associated with the assessment will concentrate on the study area, rather than the larger host lot.

1.3 The Study Area

The study area is shown on **Figure 1** and includes the 'solar investigation area, grid connection investigation area, proposed substation locations and access options'. The study area will be the focus of the archaeological survey to be conducted as part of the assessment as all ground disturbing impacts associated with the MSF project will be within this area.

The study area consists of generally cleared, fenced paddocks, currently in use for grazing purposes. The solar investigation area features some isolated stands of trees while the buildable footprint is almost devoid of upper stratum vegetation.

The landscape of the study area is undulating with several watercourses at low points. The landscape rises to a high point of 680 metres (m) average height datum (AHD) in the southwest and falls to a low of 617 m AHD toward the centre of the study area, along the course of Narambulla Creek. The study area contains several named and unnamed waterways, the most notable of which are Lockyersleigh Creek (4th order stream), Osborns Creek (4th order stream), and Narambulla Creek (4th order stream). These creeks drain generally northward towards the Wollondilly River.

Digital elevation models (DEMs) of the study area (**Figure 2**) show the general topography of the study area. This shows that, except for the V-shaped valley of Narambulla Creek just outside the study area in the southwest, that most of the study area is relatively level. The only features that interrupt the undulating landscape are drainage lines that have a broad channel in the case of Lockyersleigh Creek or narrower channels in the case of Narambulla and Osborns Creeks.

The only other topographical feature that can be seen on **Figure 3** is a low north–south ridge to the east of Narambulla Creek. This ridge divides the more elevated eastern portions of the study area from the lower western portions and may be associated with an ancient course of the Wollondilly River.

Examination of historical aerial photography of the study area shows very little change to the land use over the past 40 years (**Figure 4**). Comparison between 1979 and today shows almost no change to the vegetation cover within the study area. The 1979 image shows gully erosion associated with the banks of waterways, and while this is still visible in the current aerial, it is perhaps not so noticeable as it was 40 years ago. Comparison of the two photographs emphasises the long-term grazing land use that has taken place in the region of the study area for at least the past 150 years.

Figure 2 – DEM of the Marulan Solar Farm study area

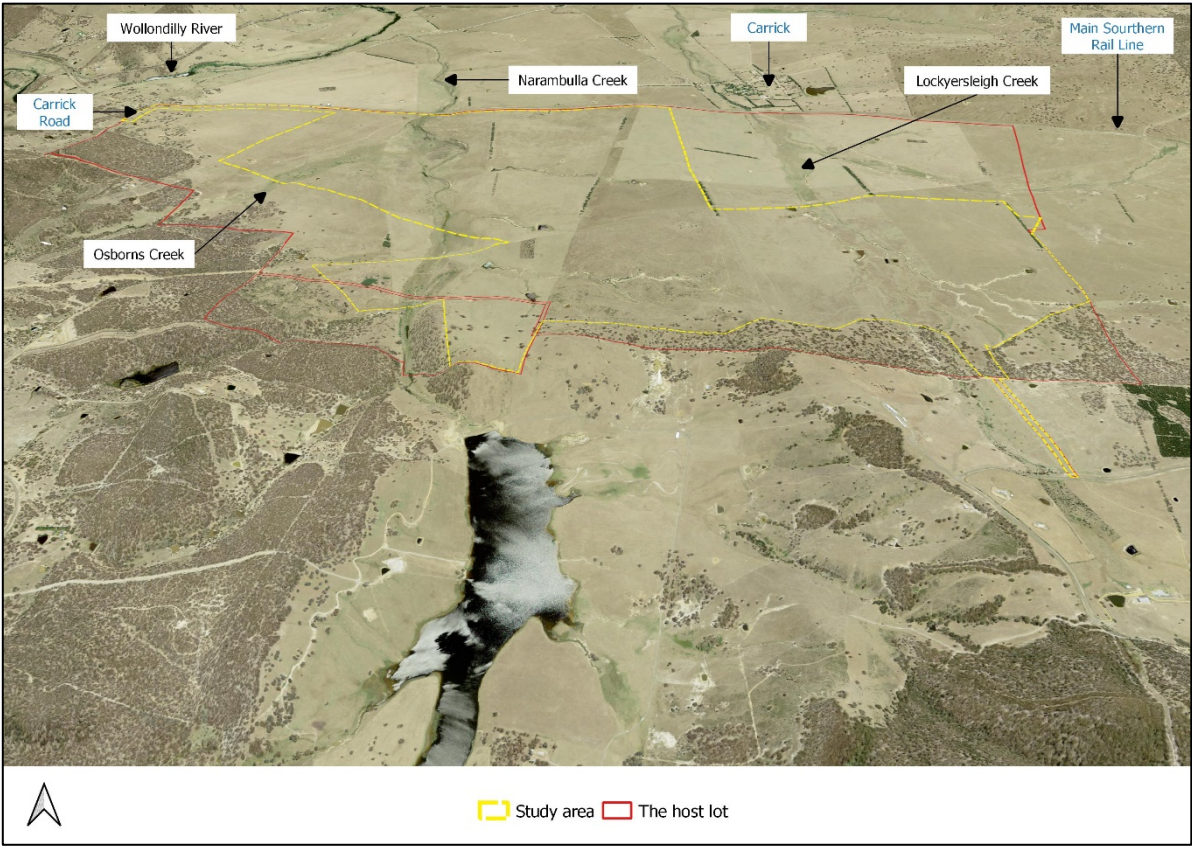


Figure 3 – DEM of the Marulan Solar Farm study area showing contours

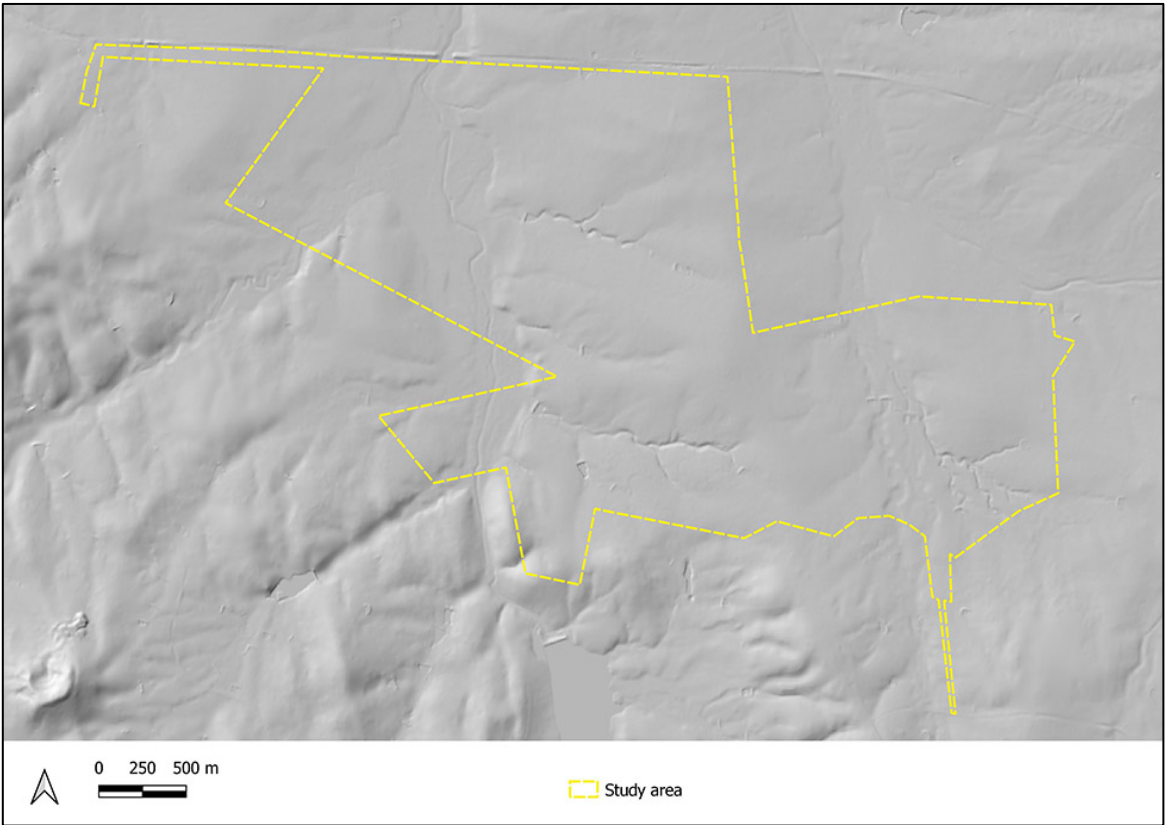


Figure 4 – Aerial photographs showing the study are in 1979 and currently



1.4 Consultation on this Methodology

The MSF ACHAR will be completed in accordance with the relevant guidelines:

- The ACHCRs (DECCW, 2010b).
- The Code of Practice.

The assessment will also follow the Guide.

Consultation for the MSF project has followed the guidelines established in the ACHCRs.

In accordance with Clause 60 (subclauses 5c, 6a and 6b, and 7a and b) of the National Parks and Wildlife Regulation 2019 (NPW Regulation 2019), this methodology provides each Aboriginal party with detailed information regarding the activity that may be the subject of an Aboriginal Heritage Impact Permit (AHIP) application and provide the registered Aboriginal parties with a proposed methodology to be used in the preparation of the cultural heritage assessment report (ACHAR).

1.4.1 STAGE 1

Stage 1 of the ACHCRs seeks to identify, notify, and register Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or places in the area of the MSF project and who wish to be consulted about the MSF.

On Wednesday 19 May 2021, an advertisement was placed in the *Koori Mail* and *Goulburn Post* requesting expressions of interest for the MSF. In addition, the following agencies were contacted to identify potential stakeholders for the area: Pejar local Aboriginal Land Council (LALC); Office of The Registrar, ORALRA; National Native Title Tribunal (NNTT), Native Title Services Corporation Limited (NTSCORP); Goulburn Mulwaree Council; South East Local Land Services (LLS) and Heritage NSW.

The following groups or individuals registered an interest and wish to be consulted for the MSF project. These groups or individuals constitute the Registered Aboriginal Parties (RAPs) for the MSF. One of the RAPs requested anonymity and will be referred to as Stakeholder 1.

Table 1 – Registered Aboriginal Parties (RAPs)

Name	Individual/Group
Delise Freeman	Pejar LALC
Lilly Carroll and Paul Boyd	Didge Ngunawal Clan
Tammy Muscat	Ngunawal Consultancy
Darleen Johnson	Murri Bidgee Mullangari Aboriginal Corporation
Shaun Carroll	Merrigarn Indigenous Corporation
Jesse Johnson	Muragadi Heritage Indigenous Corporation
Stakeholder 1	
Robert Young	Konanggo Aboriginal Cultural Heritage Services
Clive Freeman	Freeman&marx Pty Ltd
Jennie Gordon	Mulwaree Aboriginal Community Inc
Elder	Ngunnawal Elders Corporation
Wally Bell	Buru Ngunawal Aboriginal Corporation (BNAC)

Name	Individual/Group
	Ngunawal Traditional Custodian Group
Duncan Falk	Duncan Falk Consultancy
Dean Bell	Yurwang Gundana Cultural Heritage Services
Marilyn Carroll-Johnson	Corroboree Aboriginal Corporation

1.4.2 STAGE 2

The aim of Stage 2 is to provide information about the MSF to the RAPs. This document satisfies Stage 2 of the ACHCRs.

1.4.3 STAGE 3

The aim of Stage 3 is to acquire information about Aboriginal cultural significance and values associated with the MSF investigation area either through consultation and/or field work. These investigation methods are issued to all RAPs for their consideration as part of Stage 3.

Archaeological fieldwork forms part of this investigation, therefore, this document establishes the context and methods for the archaeological investigation.

Stage 3 also provides the opportunity for RAPs to present cultural information that could either inform these methods or will be useful in determining how impacts associated with the MSF are appropriately managed.

A draft version of this document was sent to all RAPs on 24 August 2021 with a closing date for comments of 21 September 2021.

1.4.4 WHO TO CONTACT?

Terrain Solar would like to consult with any Aboriginal persons or organisations that hold cultural knowledge relevant to determining the significance of Aboriginal objects, places and/or cultural heritage values in the area. The purpose of the community consultation is to assist the proponent in the preparation of an Aboriginal cultural heritage assessment report (ACHAR).

If you would like to provide information about your cultural/social values as they apply to the Marulan Solar Farm investigation area OR

If you have any questions about the proposed survey or if there is any information that Premise should be aware of before the field survey commences, please provide your response by 21 September 2021 to:

Latisha Ryall
Archaeologist
Premise Australia Pty Ltd
latisha.ryall@premise.com.au
02 6393 5000

In your response, please consider the following points:

- Do you know of any objects or places of value to Aboriginal people in the study area or locality?
- Are there any protocols that you would like incorporated into the assessment methodology?
- Are there any access requirements or restrictions that should be applied to the information you are providing?

Please also note that consultation will not necessarily involve paid engagement, as this is not a requirement of the consultation guidelines issued by Heritage NSW (formerly known as OEH).

2. IDENTIFYING CULTURAL SIGNIFICANCE

2.1 Identified Social Values

The *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011: 8–9) notes that cultural significance is comprised of an assessment of social values, scientific values, aesthetic values, and historic values. Essentially, assessing the cultural significance of a place means defining the reasons why a place is culturally important. These values are described as:

Social or cultural value

Social or cultural value refers to the spiritual, traditional, historical or contemporary associations and attachments the place or area has for Aboriginal people. Social or cultural value is how people express their connection with a place and the meaning that place has for them.

Places of social or cultural value have associations with contemporary community identity. These places can have associations with tragic or warmly remembered experiences, periods or events.

Communities can experience a sense of loss should a place of social or cultural value be damaged or destroyed.

There is not always consensus about a place's social or cultural value. Because people experience places and events differently, expressions of social or cultural value do vary and in some instances will be in direct conflict (Johnston 1992). When identifying values, it is not necessary to agree with or acknowledge the validity of each other's values, but it is necessary to document the range of values identified.

Social or cultural value can only be identified through consultation with Aboriginal people. This could involve a range of methodologies, such as cultural mapping, oral histories, archival documentation and specific information provided by Aboriginal people specifically for the investigation.

Historic Value

Historic value refers to the associations of a place with a historically important person, event, phase or activity in an Aboriginal community. Historic places do not always have physical evidence of their historical importance (such as structures, planted vegetation or landscape modifications). They may have 'shared' historic values with other (non-Aboriginal) communities. Places of post-contact Aboriginal history have generally been poorly recognised in investigations of Aboriginal heritage. Consequently, the Aboriginal involvement and contribution to important regional historical themes is often missing from accepted historical narratives. This means it is often necessary to collect oral histories along with archival or documentary research to gain a sufficient understanding of historic values.

Scientific (archaeological) value

This refers to the importance of a landscape, area, place or object because of its rarity, representativeness and the extent to which it may contribute to further understanding and information (Australian ICOMOS 1988).

Information about scientific values will be gathered through any archaeological investigation undertaken. Archaeological investigations must be carried out according to OEH's Code of practice for archaeological investigation of Aboriginal objects in NSW, available at www.environment.nsw.gov.au/licences/archinvestigations.htm.

Aesthetic value

This refers to the sensory, scenic, architectural and creative aspects of the place. It is often closely linked with the social values. It may consider form, scale, colour, texture and material of the fabric or landscape, and the smell and sounds associated with the place and its use (Australian ICOMOS 1988).

2.1.1 SOCIAL OR CULTURAL VALUES ASSOCIATED WITH THE MARULAN SOLAR FARM PROJECT

Social and/or cultural values for the MSF will be identified through community consultation and/or during the initial field survey, obtained through verbal or written correspondence provided by RAPs. Through this process Premise would seek information provided from the RAPs on any social and cultural associations with the MSF area.

It is important to note, however, that the cultural landscape is central to Aboriginal identity, with respect to both traditional and contemporary society. The relationship between Aboriginal community and the landscape is expressed through stories, art, ceremonies, and other cultural forms, both physical and non-physical. These factors determine the significance of the area and cultural sites of the Gandangara and Ngunawal within the Goulburn Mulwaree LGA.

2.2 Identified Historic Values

Historic values specific to the MSF investigation area have yet to be identified. However, previous investigations undertaken in the vicinity of the MSF site indicate that the majority of excavated Aboriginal sites in the Goulburn Mulwaree region date to within the last 3,000 to 5,000 years, when the local climate and environment approached modern conditions (BRS 2018:14).

Australian Museum Business Services (AMBS) have prepared a comprehensive Aboriginal Heritage Study on the Goulburn Mulwaree LGA outlining the historic connections of the Aboriginal community to the region which encompasses Marulan (AMBS 2012). The study indicates that the distribution of registered Aboriginal sites within the Goulburn Mulwaree LGA, generally occur in the vicinity of watercourses, in elevated areas, and in areas with suitable geology or mature vegetation. Concentration of sites have been identified in proximity to Mulwaree Ponds and the Wollondilly River (AMBS 2012: 26).

Evidence of Aboriginal occupation within camps have also been found around the Tarlo, Tallong, Bungonia and Marulan areas, associated with extensive quarry sites, utilising local materials for implementation use (BRS 2018:14).

2.3 Identified Scientific Values

A major purpose of this document is to establish the context and methods for the archaeological survey. The scientific values of the MSF investigation area discussed further in **Sections 3** and **4**. Assessment of scientific value is often based on research potential of the area.

Identified scientific values of the site may contribute to our broader understanding of the of the MSF investigation area regarding the importance of landscape features and/or rarity of objects or places. The archaeological field survey would provide further scientific values of the area and would be undertaken in accordance with the *Code of practice for archaeological investigation of Aboriginal objects in NSW* (DECCW 2010).

2.4 Identified Aesthetic Values

The aesthetic values of the MSF investigation area as it relates to cultural significance is not yet known and will be determined through community consultation. Identified aesthetic values of the study area will be observed during field work considering landscape use and form, noting that the aesthetic values may be closely linked with social values of the study area.

2.5 Social Values Investigation

Investigation of social values will be identified through the consultation process, through comments and feedback provided both on site during field work and through review of the ACHAR documentation. Social values are important for identifying tangible and intangible heritage associated with country.

3. ARCHAEOLOGICAL CONTEXT

3.1 Ethnographic Aboriginal Context

Tindale (1974) extensive research into Aboriginal tribal boundaries indicates that the Marulan area was at the junction point of four major tribes, however, two major language groups were identified within the Goulburn Mulwaree region at the time of European contact the Ngunawal and the Gandangara people. It is acknowledged that the Gandangara and Ngunawal peoples are the traditional owners of Goulburn Mulwaree area, playing a significant and ongoing role in the history of the region (BRS 2018:12).

The Ngunawal territory extended to the south and south west from Queanbeyan to Yass and East to beyond Goulburn; whilst the Gandangara territory extended to the north and north west at Goulburn and Berrima, down the Hawkesbury River to Camden. There were also two other associated language groups whose boundaries occurred close by being the Wodi and Wandandian people who lived on the land to the east of the Great Dividing Range, down to the coast. The Wodi Wodi territory extends to the northeast north of the Shoalhaven River to Wollongong; and the Wandandian territory extends to the southeast from Ulladulla to the Shoalhaven River and Nowra.

Very little Information on the traditional lifestyle of the Gandangara was recorded.

3.2 Regional Archaeological Context

Aboriginal occupation of Australia began prior to 40,000 BP (years before present) and possibly earlier than 50,000 BP. Dates exceeding 20,000 years occur in almost all parts of Australia resulting in the expectation that most areas should have a Pleistocene (>12,000 BP) occupational signature. However, such dates remain relatively rare due to a range of factors, both behavioural and post-depositional. These factors include a possible low density of occupation in the Pleistocene period, poor preservation of archaeological materials (particularly dateable organic materials) and significant coastline change over the past 18,000 years.

The earliest dated excavated archaeological site in the vicinity of Goulburn Mulwaree LGA is Birrigai rock shelter in the northern foothills of the Australian Alps (AMBS). However, the majority of archaeologically excavated sites in the Goulburn Mulwaree region date to within the last 3,000 to 5,000 years, when the local climate and environment would have approached modern conditions (BRS 2018:12).

To establish a background context in forming a predictive model for the likelihood of locating Aboriginal objects, and the likely places of such objects which may be located within the activity area, previous archaeological investigations have been examined.

3.2.1 INTRODUCTION

3.2.2 PREVIOUS ARCHAEOLOGICAL INVESTIGATIONS IN THE SURROUNDING REGION

Several archaeological investigations have been undertaken in or in the region of the Marulan Solar Farm investigation area, summarised below.

Koettig Archaeological assessments 1981-1989

Koettig has undertaken several investigations near the study area. In 1981 Koettig surveyed the proposed route of the F5 highway from Hoddles Crossing to Alpine, north of Marulan. The survey identified twenty four sites, comprising of stone artefact scatters, scarred trees, rock shelters with art and/or archaeological deposit and grinding grooves. The latter two site types were associated with Hawkesbury sandstone some distance from the current study area.

Lance and Koettig (1986) prepared an Aboriginal Resources Planning Study for the City of Goulburn using archaeological, ethnographic, and environmental data and a sample survey to develop an Aboriginal site location model. Four landform zones were identified: major watercourses, undulating hills and plains, hill tops and built-up areas. These zones were assigned an archaeological sensitivity and site significance rating. Most sites within the Goulburn area were found to be stone artefact scatters located in the areas associated with undulating hills and plains, located predominantly on lower slopes adjacent to ephemeral watercourses.

In 1989, Koettig surveyed a proposed rural subdivision at Tallong east of Marulan. During this survey twelve Aboriginal sites were recorded. The sites consisted of two rock shelters with associated archaeological deposit, seven stone artefact scatters and three isolated finds. All the stone artefact scatters were associated with watercourses and silcrete was the dominant artefact raw material source, with quartz also present.

Gunlake Quarry Extension EIS (EMM 2016)

Extensive surveys of the areas subject of the Gunlake Extension Project were undertaken as part of the Aboriginal cultural heritage assessment for the EIS prepared by EMM. The assessment of Aboriginal heritage formed part of an EIS report for the extension of the Gunlake Quarry which is located approximately 4km to the northeast of the study area.

A field survey identified 15 Aboriginal sites within the extension area comprising of stone artefacts. Artefacts were in high frequencies on hill spur crests in the emplacement area.

Archaeological test excavations included eight test pit transects with 42 test pits exposed. All aboriginal sites were determined as having low archaeological significance except for one which was assessed as having moderate significance.

Open artefact sites are the most common site type found near watercourses such as streams, whilst isolated finds are less common, however, are also located near streams. Two modified trees were recorded to the south of the extension area associated with the Lynwood Quarry site. The sites occurring within the Gunlake extension boundary were considered low density artefact scatters which were relocated through the salvage program. The study identified that Aboriginal sites located to the south of the extension area are generally comprised of stone artefacts in low numbers.

Proposed Lockyersleigh Subdivision (Archaeological Heritage Surveys (AHS) (2005)

An archaeological assessment was undertaken by AHS in 2005 for a proposed subdivision of Lots 24,25, 41, 42 and 43 'Lockyersleigh', located across the MSF study area. A total area of 597 ha was surveyed. Preliminary archaeological assessment of the proposed subdivision was undertaken in 2004 (Saunders 2004) and a detailed archaeological survey of six targeted areas was undertaken in 2005. Previous land use history consisting of intensive agricultural practices such as cropping, and grazing had occurred on the site for a period of over 50 years. The study identified based on regional site location models, past land use history and environmental contexts the following site types were likely to occur within the study area: Open artefact scatters, isolated finds, scarred trees, or PADs.

Three sites were investigated within the study area. Survey Area 1, 2 and 3 were undertaken in the southern portion of the current proposed MSF site. Survey Areas 4, 5 and 6 are located to the immediate north of the host lot adjacent to the rail corridor.

During the survey a total of 33 Aboriginal sites were recorded comprising of 23 artefact scatters, one associated with a probable scarred tree and 10 isolated finds. Most sites were assessed as having low archaeological or scientific significance at local level, however, are culturally significant to the Aboriginal community. 8 sites were recorded in Survey Area 1 and 3, 14 in Survey Area 2 and 3 in Survey Area 4, with no sites located in the northern Survey Areas 5 and 6.

Five sites were assessed as having high archaeological significance on a local level, whilst one site associated with the probable scarred tree was assessed as having low to moderate archaeological significance on a regional level. Two Aboriginal sites were associated with watercourses of Osborns Creek and Narambulla Creek.

Based on the survey results and regional Aboriginal site location model, the study indicates that Aboriginal sites are likely to occur in low to very low densities in the area with localised concentration associated with major creeks. However, these sites are likely to have been subject to disturbance with low archaeological potential.

Marulan Gas Turbine Facilities (Biosis 2008)

A cultural heritage assessment of the proposed Marulan Gas Turbine Facilities was undertaken by Biosis in 2008, located approximately 11km north east of the study area. The results of preliminary archaeological survey and desktop assessment identified the region as representing high sensitivity for Aboriginal archaeological sites, particularly near watercourses such as the Wollondilly River, whilst other sensitive landforms occur on ridgelines and ridge saddles. Four aboriginal archaeological sites were assessed as having moderate cultural significance and two sites were assessed as having low cultural significance. All sites represent the most common type of site (open sites) to be recorded in the region (Biosis 2008:58-59).

Aboriginal Heritage Study Goulburn Mulwaree LGA (Australian Museum Business Services (AMBS) 2012)

An Aboriginal Heritage Study was undertaken in 2012 on the Goulburn Mulwaree LGA, prepared by Australian Museum Business Services (AMBS) for the Goulburn Mulwaree Council (which includes the study area). This study was prepared to inform future management of Aboriginal cultural heritage in the region, and to identify and record places of significance and develop management strategies of those places with involvement of the Aboriginal community. The study presents a detailed history of Aboriginal occupation in the Goulburn Mulwaree LGA.

Lynwood Quarry Extraction Area Modification (Umwelt 2015a).

An ACHAR was prepared as part of the environmental assessment for the proposed Lynwood Quarry located 1.3km east of the MSF investigation area. This study identified that there were some implications for the broader Marulan area in relation to likelihood of site location, site type, contents, and integrity. The study outlined that overall artefact scatters and isolated finds were the most common site types recorded, found on lower slopes and adjacent to watercourses. Isolated finds and artefact scatters were also commonly found on spur crests/spur crests and associated slopes leading towards a watercourse. Scarred trees are moderately rare site types and are not often associated with artefact or with PADs, however, are most often located in landforms consisting of mid slopes, spurs, or crests. Grinding bowls and stone arrangements are extremely rare site types.

The study identified that quartz and silcrete were the dominant raw materials used for artefact manufacture. Flakes, broken flakes, and flaked pieces were the dominant artefact types recorded with smaller numbers of retouched flakes and cores. Implement types such as stone axes and hammerstones were rare.

A high number of isolated finds and small artefact scatters represented low density consistent with transient use of the landscape. The past land use history of early European agricultural practices and sandy nature of the soil profile, integrity is unlikely, however, may remain in deeper soil horizons.

The study concluded within the broader Marulan area 81 sites (10 scarred trees, 25 isolated finds, 44 artefact scatters, one stone arrangement and a boulder containing a grinding bowl) have been proposed for conservation. Six of the artefact scatters, one isolated find and one scarred tree were assessed as having moderate to high or high likelihood of PAD, one artefact scatter was described as in deposits on a creek margin and was assessed as having moderate to high likelihood of PAD. Of the remaining sites 49 were assessed as having from low to a high likelihood of PAD.

Aboriginal Heritage Management Plan Lynwood Quarry (Umwelt 2015b)

A subsequent salvage excavation program occurred for the abovementioned quarry and Umwelt in 2015 prepared an Aboriginal Heritage Management Plan (AHMP) as part of the Development Consent (DA 128-5-2005) conditions for Holcim to establish the Lynwood Quarry, located approximately 1.3km east of the current study area. The aim of the assessment was to provide guidance to Holcim for the appropriate management of Aboriginal sites and landscape values in the project area.

A three staged salvage program was undertaken which identified 5 site types being artefact scatters, isolated finds, Potential Archaeological Deposits (PADs), stone arrangements and scarred trees. The stages were approved under an Aboriginal Heritage Impact Permit (AHIP) #1077225 and combined AHIP #1077294 for conservation, management and/or impact.

Preliminary Environmental Assessment Carrick Solar Farm (KMH/Pitt & Sherry 2017)

In 2017 a preliminary environmental assessment was undertaken on the MSF investigation area, prepared by KMH/Pitt & Sherry. This assessment indicated that no Aboriginal sites or places were recorded on the AHIMS database at the time within a 10km radius of the proposed MSF works area, however the assessment did identify that the site contains landscape features that increase the likelihood of the presence of Aboriginal objects. The site was considered low risk due to the level of ground disturbance in this area, however, further due diligence archaeological assessment was recommended. This assessment indicated that there were no recorded sites registered, however the AHIMS database indicates otherwise through a search undertaken by Premise (2020).

Peppertree Quarry Modification 4 Environmental Assessment (Element Environment)

An Aboriginal and historic heritage impact assessment was undertaken by EMGA Mitchell McLennan Pty Ltd as reported in the Peppertree Quarry Modification 4 environmental assessment, to assess whether the new Southern Overburden Emplacement for the Peppertree Quarry Modification would result in any impacts on Aboriginal and historic heritage values. The quarry is located to the southeast of the study area.

The majority of the new Southern Overburden Emplacement was proposed on land that had not been previously assessed for Aboriginal heritage values and was assessed as having low to moderate archaeological sensitivity. Although this area had been subject to surface disturbance associated with historic agricultural activities, it had the potential to contain Aboriginal artefacts and other Aboriginal cultural heritage values. The landscape of the proposed Southern Overburden Emplacement was considered to have areas of moderate and low archaeological sensitivity. The surrounding landscape contains watercourses, moderate and steep slopes, some areas of gentle slopes and a ridgeline overlooking the Barbers Creek gorge. The emplacement area itself is located on a ridge, with different slope gradients throughout.

The emplacement was located in a ridgeline landscape that has been previously investigated in excavations for Peppertree Quarry, the Limestone Mine and throughout the wider Southern Tablelands region (see ERM 2006 below). The results of previous assessments indicated that areas of ridgelines generally contain artefact densities of less than five artefacts per square metre and a low background scatter of artefacts, indicating the likelihood of low-density scatters within the development modification.

Marulan South Quarry Environmental Assessment Report (ERM, 2006), Peppertree Quarry Archaeological Excavation Report (ERM, 2012)

ERM prepared and Aboriginal heritage assessment as part of the Marulan South Quarry Environmental Assessment Report (ERM, 2006). The assessment identified 11 sites, comprising predominantly silcrete and quartz flakes and cores, within the Quarry footprint and a proposed water storage dam along Tangarang Creek. A large-scale test and salvage excavation was undertaken in 2010 – 2011 prior to commencement of quarry operations in areas along the Tangarang Creek, and later an archaeological survey was undertaken in 2015.

The test excavation targeted high risk landforms across the Quarry area and sampled along linear transects. A total of ten test transects covered six landforms within the Tangarang Creek Dam area and another three outside this area. Test pits were located at 5m intervals along each transect. This resulted in the excavation of 103 test pits and a total of 2,089 artefacts recovered. The areas determined for salvage excavation were based on the results of the test pits. Ten open area trenches were expanded and salvaged. These ten trenches were divided into four hills. A total of 122m² of open excavation was undertaken with 20,956 artefacts excavated.

During the open area excavation, a number of high-density artefact concentrations, hearths and ovens and a human burial were uncovered. Salvage excavation results identified higher artefact concentrations,

suggesting a varied and long-term use of the area. The dominant artefact type consisted of flakes with backed artefacts, cores and retouched flakes also present. Raw material types included silcrete, quartz, quartzite, and chert as dominant materials. Chalcedony, basalt, and granite artefacts were present in low numbers.

The results indicated that preferred camping areas were located on shallow hill slopes and hill tops associated with Tangarang Creek, representing long term and frequent use of the area, and perhaps used as a trading or ceremonial location, due to the size and type of artefacts found and the location of the quarry site in relation to the four Aboriginal clan groups. Most of the study area comprised of cleared grassed paddocks resulting from historic vegetation clearance, which may have slightly displaced Aboriginal objects, however, disturbance was generally low.

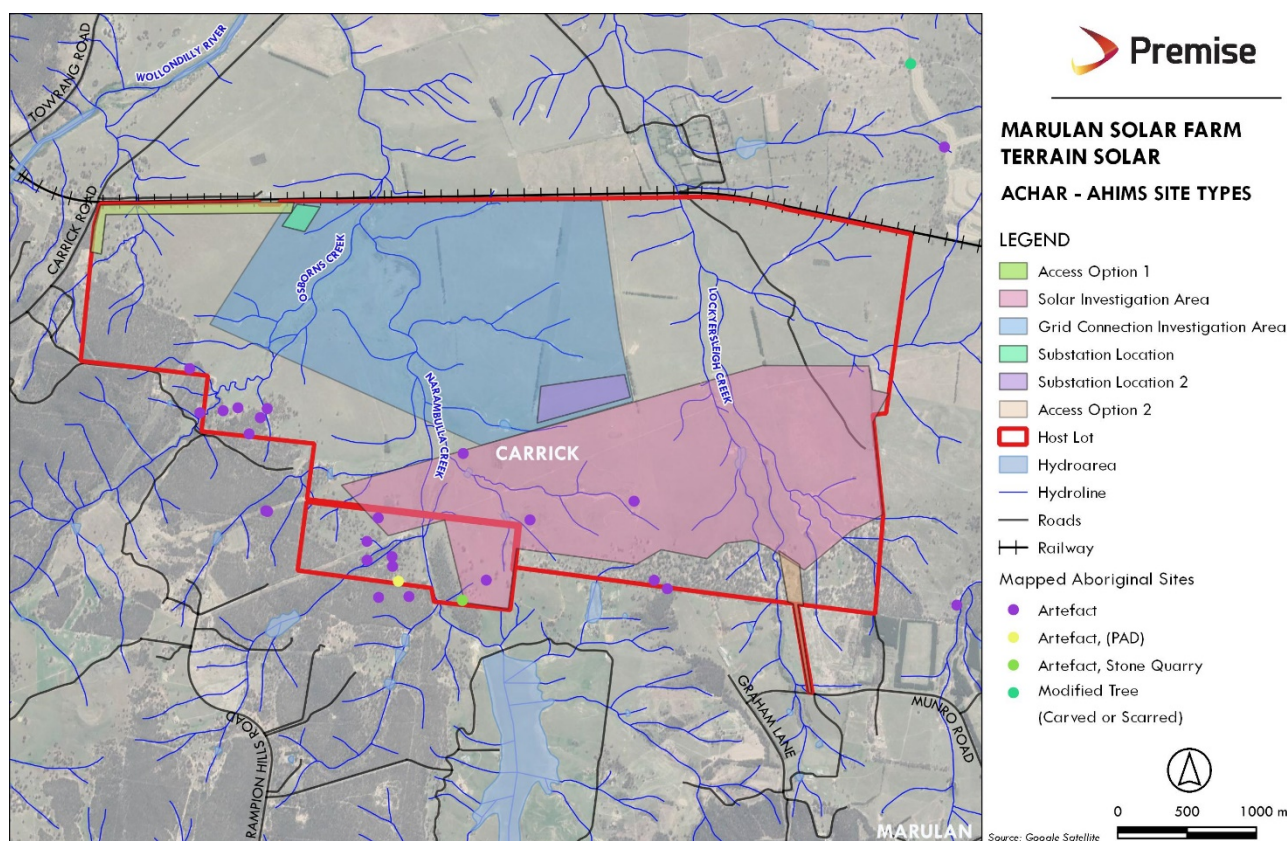
Other Investigations

A survey undertaken for a proposed mushroom farm in 1997 near Marulan identified three artefact scatters and three Isolated finds representing an extensive high-density site beside Narambulla Creek, with artefacts eroding out of the creek banks and the adjacent terraces and grassy flats (Dearling 1997). The site contained a diverse range of artefact and raw material types. Other sites included two artefacts on a low spur 250m from Narambulla Creek and two isolated quartz artefacts more than 900m from a water source.

3.2.3 LOCAL ARCHAEOLOGICAL CONTEXT

An extensive search of the online Aboriginal Heritage Information Management System (AHIMS) database identified 28 Aboriginal sites or places within a 3 km radius of the proposed MSF investigation area. A total of six registered sites are located within or on the border of the study area (**Figure 5**).

Figure 5 – AHIMS sites in or near the study area



All registered sites in the AHIMS search consist of open site contexts. One site is recorded as a scarred or modified tree. One site is associated with potential archaeological deposit (PAD) and artefact, one site is associated with a stone quarry and artefact, and the remaining 25 sites are recorded as artefacts.

All six recorded site types within or near the study area are recorded as artefact sites, although one site on the boundary of the study area is also recorded as a quarry.

Potential impacts of the proposed MSF may also include disturbance of unknown Aboriginal heritage sites.

3.3 Archaeological Context Conclusion

The extensive archaeological investigations both within and surrounding the study area as summarised in Section 2.2 and 2.3 indicate that:

- Stone artefact sites (isolated finds and artefact scatters) are the most recorded site types in the area, with Potential Archaeological Deposits (PADs), stone arrangements and scarred trees less common. Other site types, such as grinding grooves and burials, are rare.
- The predominant raw materials used for stone artefact manufacture are quartz and silcrete.
- Flakes, broken flakes, and flaked pieces are the dominant artefact types with implement types such as hammerstones and stone axes being rare.
- Sites tend to be associated with lower slopes located adjacent to watercourses or found on spurs, crests, and ridgelines.
- Generally, sites are represented in low densities.
- The area has been subject to extensive agricultural practices associated with cropping and grazing.
- According to ABMS, previously recorded Aboriginal sites within the Goulburn Mulwaree LGA generally occur in the vicinity of watercourses, in elevated areas, and in areas with suitable geology or mature vegetation.

4. PREDICTIVE MODEL FOR ABORIGINAL SITE LOCATION

4.1 ASDST Mapping

Aboriginal site features occur across the entire landscape; however, some parts of the landscape have a greater capacity to contain certain site features or features of different types. The variation in site feature likelihood across the landscape is useful for planning assessments of potential site impacts. The Aboriginal Site Decision Support Tool (ASDST) has been developed to support the assessment Aboriginal sites issues in NSW at the landscape-scale. The tool extends the AHIMS data by illustrating the potential distribution of site features recorded in the database.

The maps of site feature predictions made by the ASDST are based on the application of site predictive modelling. This is a technique used to correlate site information in AHIMS with landscape patterns such as proximity to water, vegetation, terrain, soils etc. The maps provide a regional overview about site feature distribution and related issues about the level of accumulated impacts they have experienced.

The ASDST has been developed to meet the needs of regional planning. For this reason, it is designed to be used at scales of 1:100,000 and above. Application at finer scales is possible, but it should be borne in mind that the datasets used to derive the products were themselves derived at a scale of 1:100,000 or coarser, and therefore the inaccuracies of those layers at finer scales will be carried through to the ASDST models. In

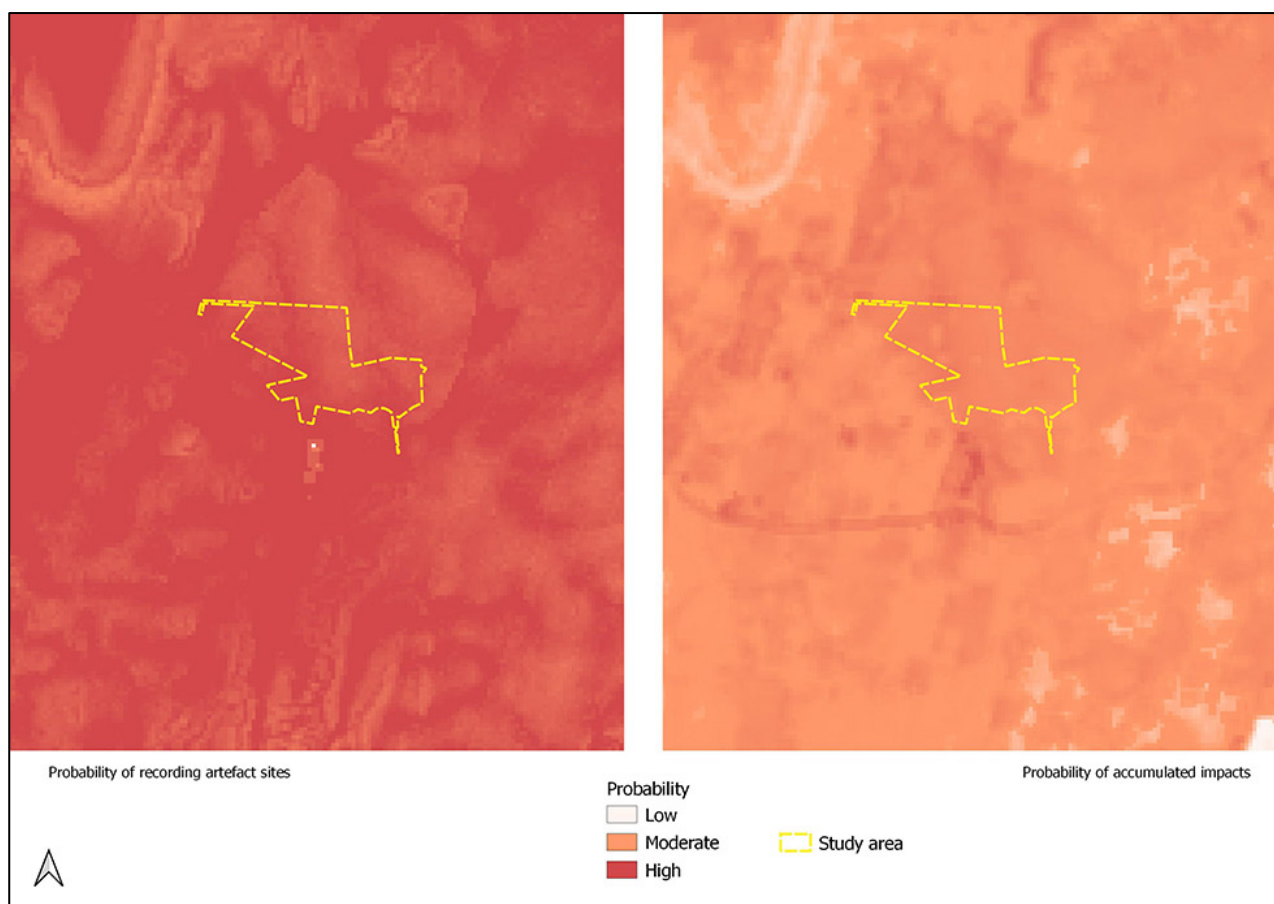
short, The ASDST is a good tool to give a general prediction of certain site types, but it is not accurate at scales less than a square hectare.

Two models have been mapped as these are most applicable to the study area: artefact site probability; and accumulated impacts (**Figure 6**).

These models show:

- The study area models as an area with low to moderate potential to contain stone artefact sites. The probability of recording artefacts sites in the study area is lower than in surrounding landforms and is higher along the waterways within the study area
- The ASDST accumulated impacts model indicates low to moderate levels of disturbance throughout the Study Area, indicating that sites have an increased likelihood of being in their original context.

Figure 6 – ASDST predictive modelling of the study area



4.2 Settlement strategies

There appears to be a range of settlement strategies in the region of the study area depending on the geography of a particular area.

In landforms associated with undulating hills and plains, such as those within the study area, the dominant site type has been found to be stone artefact scatters located predominantly on lower slopes adjacent to ephemeral watercourses (for example Lance and Koettig 1986, AHS 2005).

Investigations to the east of Marulan where the topography includes ridges and escarpments, a very different range of sites such as rock shelters and grinding grooves have been recorded. Also in this topographic zone, sites tend to have a greater artefact density and a greater complexity of artefact types (for example Koettig 1981, Koettig 1989, ERM 2012).

Investigations in topographies that share the two topographic zones discussed above, such as EMM 2016, demonstrate that artefact sites dominate, particularly on hill spur crests and near watercourses. Investigations such as EMM 2016 that included wooded areas can also record modified trees. However, generally the sites recorded away from areas with a greater variety of topographic features have a low artefact density.

In topographies like the study area, past investigations, such as AHS 2005, have demonstrated that Aboriginal sites are likely to occur in low to very low densities with localised concentrations associated with major creeks. However, these sites are likely to have been subject to disturbance and have low archaeological potential.

From the available evidence it appears that the steeper topographies to the east of Marulan were more favoured occupation areas, probably due to the greater variety of resources available, as well as greater opportunity for shelter which is an important need in the region. Conversely, occupation on the more open plains where the study area is located appears to have been either short-term or sporadic.

4.3 Past Land Use

The MSF has been subject to previous ground disturbance associated with extensive European agricultural use such as cropping and grazing. Such land use practices have resulted in soil loss, often involving significant loss of top soils and any archaeological deposits they may have contained. Apart from the results of ERM 2012, most subsurface excavations in the area note low to moderate artefact densities in unstratified deposits (for example EMM 2016). As noted above, the ERM 2012 results may indicate that a nodal occupation area was encountered, however, elsewhere, the impact of past land use has disturbed and dispersed archaeological deposits.

Aerial imagery of the study area (**Figure 4**) shows that the waterways within the study area display widespread gully erosion because of vegetation clearing and stock trampling. This erosion may have removed archaeological deposits had they been present near to the waterways. Further, the aerial imagery indicates that streams such as Narambulla Creek have changed their course, and in the north of the study area, areas of aggradation, presumably with colluvial soils from nearby hills, are present. This observed channel migration and sedimentation lessens the likelihood of sites being recorded near these waterways, or if they are recorded, they will likely be in a secondary context.

Past agricultural clearing means that it is unlikely that culturally modified trees will be recorded in the study area and the impact of over 150 years of intensive grazing has likely removed any evidence of ceremonial places (stone arrangements etc.) had they existed.

4.4 Previously Recorded Sites

Previously recorded sites are outlined in section 3.2.3. These recordings indicate that artefact scatters and isolated finds were the most common site types recorded, often recorded on lower slopes and adjacent to watercourses. Isolated finds and artefact scatters were also commonly recorded on spur crests/spur crests and associated slopes leading towards a watercourse. Scarred trees are moderately rare site types and are not often associated with artefact or with PADs, however, are most often located in landforms consisting of mid slopes, spurs, or crests. Grinding bowls and stone arrangements are extremely rare site types.

Regional studies indicate that quartz and silcrete are the dominant raw materials used for artefact manufacture. Flakes, broken flakes, and flaked pieces were the dominant artefact types recorded with smaller numbers of retouched flakes and cores. Implement types such as stone axes and hammerstones were rare.

4.5 Landform Modelling

In Section 1.3 it was noted that the survey area consists of low gradient undulating landforms with little landform differentiation. Previous archaeological investigations of this type of topography suggests that low-density artefact scatters and isolated finds will be the primary site types recorded. Further, these sites are likely to be associated with the waterways within the study area.

Based on our understanding of settlement strategies in the area (Section 4.2) landforms, such as those represented in the study area, were not favoured for long-term camping. While the creek systems were visited, these visits were either short-term or sporadic with more favoured occupation areas being in steeper country to the east of the study area.

4.6 Predictive Model for the study area

Based on knowledge of the environmental contexts of the study area and a desktop review of the known local and regional archaeological record, the following predictions are made concerning the probability of those site types being recorded within the Study Area:

Isolated finds may be indicative of random loss or deliberate discard of a single artefact, the remnant of a now dispersed and disturbed artefact scatter, or an otherwise obscured or sub-surface artefact scatter. They may occur anywhere within the landscape but are more likely to occur in topographies where open artefact scatters typically occur.

- As isolated finds can occur anywhere, particularly within disturbed contexts, it is predicted that this site type could be recorded within the study area. A low number of isolated finds were recorded in the assessment for the proposed Lockyersleigh Subdivision partially located within the study area (AHS 2005).

Open artefact scatters are defined as two or more artefacts, not located within a rock shelter, and located no more than 50 m away from any other constituent artefact. This site type may occur almost anywhere that Aboriginal people have travelled and may be associated with hunting and gathering activities, short- or long-term camps, and the manufacture and maintenance of stone tools. Artefact scatters typically consist of surface scatters or subsurface distributions of flaked stone discarded during the manufacture of tools but may also include other artefactual rock types such as hearth and anvil stones.

Artefact scatters are most likely to occur on level or low gradient contexts, along the crests of ridgelines and spurs, and elevated areas fringing watercourses or wetlands. Larger sites may be expected in association with permanent water sources.

Topographies which afford effective through-access across, and relative to, the surrounding landscape, such as the open basal valley slopes and the valleys of creeks, will tend to contain more and larger sites, mostly camp sites evidenced by open artefact scatters.

- Artefact scatters comprise most of the recorded sites within 3km of the study area and are likely to be recorded in the study area, probably associated with waterways. It is noted that the ASDST predictive modelling (Section 4.1) indicates that there is a low to moderate probability of recording this site type in the study area. However, knowledge of settlement strategies in the region (Section 4.2), as well as the impact of previous land use (Section 4.3), it is likely that if artefact scatters are recorded that they will have a low artefact density and will likely be in a disturbed context.

Aboriginal scarred trees contain evidence of the removal of bark (and sometimes wood) in the past by Aboriginal people, in the form of a scar. Bark was removed from trees for a wide range of reasons. It was a raw material used in the manufacture of various tools, vessels, and commodities such as string, water containers, roofing for shelters, shields and canoes.

- Vegetation within the study area is mostly comprised of pasture species and there are very few native trees. Therefore, this site type is not expected to be recorded in the study area.

Quarry sites and stone procurement sites typically consist of exposures of stone material where evidence for human collection, extraction and/or preliminary processing has survived. Typically, these involve the extraction of siliceous or fine grained igneous and meta-sedimentary rock types for the manufacture of artefacts. The presence of quarry/extraction sites is dependent on the availability of suitable rock formations.

- This site type could be recorded within the study area should suitable rock outcroppings be available. A quarry site has been previously recorded near the boundary of the study area and it is possible that further evidence of quarrying activity will be recorded in the study area associated with this site (51-6-0372; LA17).

Burials are generally found in soft sediments such as aeolian sand, alluvial silts, and rock shelter deposits. In valley floor and plains contexts, burials may occur in locally elevated topographies rather than poorly drained sedimentary contexts. Burials are also known to have occurred on rocky hilltops in some limited areas. Burials are generally only visible where there has been some disturbance of subsurface sediments or where some erosional process has exposed them.

- Potential burials have been identified in the local area (see ERM 2012). These sites are more likely to be found on elevated sandy contexts or in association with rivers and major creeks. No such landscape features exist with the study area and therefore burials are unlikely to occur.

Bora/Ceremonial sites are places which have ceremonial or spiritual connections. Ceremonial sites may comprise of natural landscapes or have archaeological material. Bora sites are ceremonial sites which consist of a cleared area and earthen rings.

- This site type does not necessarily follow landform predictability and are, overall, a rare site type with a low likelihood of being present and remaining extant due to the historical land use of the study area.

4.7 Research Questions

Several research questions can meaningfully be applied to the investigation of the study area. These research questions include:

- What resources were available to the Aboriginal people within the study area (food, stone, and water)? And what resources were transported into the study area?
- What tasks were Aboriginal people undertaking at the sites?
- Are there hearths in the area? And if so, do they contain remains (animal/plant) that may indicate what people were cooking/eating? Can dates be obtained from hearths for the Aboriginal use of the area?
- Are there burials in the area?
- Do the survey results correlate with the ASDST models shown on **Figure 6** and the predictive model set out in **Section 4.6**?

5. ARCHAEOLOGICAL SURVEY METHODOLOGY

5.1 Assessment Approach

An archaeological survey is proposed for the study area, the objectives of which are to:

- Assess the Aboriginal archaeological values of the study area in accordance with the Code of Practice.
- Identify Aboriginal archaeological and cultural heritage values that may be impacted by the proposed works.
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

Reporting relating to the archaeological survey will be incorporated into the ACHAR and include:

- A description of the project and the extent of the study area.
- An archaeological significance assessment of the study area.
- A description of the statutory requirements for the protection of Aboriginal heritage.
- An impact assessment for recorded Aboriginal sites and areas of archaeological potential.
- Provision of measures to avoid, minimise, and if necessary, offset the predicted impacts on Aboriginal heritage values.

The ACHAR will also assesses Aboriginal heritage significance of the study area, based on comments received from the RAPs and the results of the archaeological survey. The potential impact of the proposed development on this significance would be assessed, and management recommendations would be developed accordingly.

A draft copy of the ACHAR will be sent out to all RAPs for review, prior to finalisation of the document.

5.2 Survey Aims

As set out in the Code of Practice, the aim of any survey is not to locate every artefact or other archaeological feature in a landscape. Rather, the aim is to adequately assess all representative landforms within a study area so that the archaeological characteristics of those landforms can be understood. In this way the survey will provide sufficient information for the archaeological potential of all landforms within the study area to be assessed allowing appropriate management strategies to be devised.

5.3 Survey Methodology

The survey methodology was prepared considering the following requirements:

- To survey an adequate sample area that will be impacted by the proposed MSF development including the solar investigation area and the buildable footprint (as defined as the 'study area' in this document).
- To provide an opportunity for the RAPs to visit the proposed development site and to provide cultural knowledge including intangible knowledge of the area.
- To consider site management and constraints for the proposed development area.
- To ensure that the RAPs are satisfied that the survey effort was adequate.

Based on the predictive modelling set out in **Section 4**, the study area has been divided into two zones:

- Zone 1. Areas with higher archaeological potential. These landforms are near waterways and previously recorded sites. Previous archaeological investigations in the region suggest that these landforms will have a low density of artefacts and site types will be confined to artefact scatters with a low artefact density and isolated finds.
- Zone 2. Areas with low archaeological potential. These landforms are distant to waterways within an undifferentiated, low gradient topography. Previous archaeological investigations in the region suggest that these landforms will have a very low density of artefacts and site types will be mostly confined to isolated finds.

The survey will sample both zones to test the predictive model, however, the zone of higher archaeological potential will be surveyed more closely.

Survey will be conducted by archaeologists and RAP representatives walking pre-defined transects. The spacing of the transects will vary between Zone 1 and Zone 2 as described below:

- Zone 1: Transects will be spaced 100m apart and the entirety of the zone will be surveyed by surveyors being spaced at a maximum of 20m apart. As always occurs on field surveys, the experience of the archaeologists and the RAPs to identify landforms with potential to reveal Aboriginal objects, such as exposures near waterways, will be a focus of the survey, although other areas, even those with little ground surface visibility, will also be surveyed.
- Zone 2: Transects will be spaced 200m apart and a sample of the zone will be surveyed by surveyors being spaced at a maximum of 20m apart. As with Zone 1, landforms with potential to reveal Aboriginal objects, such as exposures near fences/gates, will be a focus of the survey, although other areas, even those with little ground surface visibility, will also be surveyed.

Figure 7 shows the study area with the Zone 2 area (low archaeological potential) marked. All other areas within the study area are Zone 1 areas (higher archaeological potential). Of the total area of the study area (approximately 798ha), approximately 356ha is classed as Zone 2. Therefore, approximately 45 per cent of the study area is classed as Zone 1 and will be subject to more intensive survey.

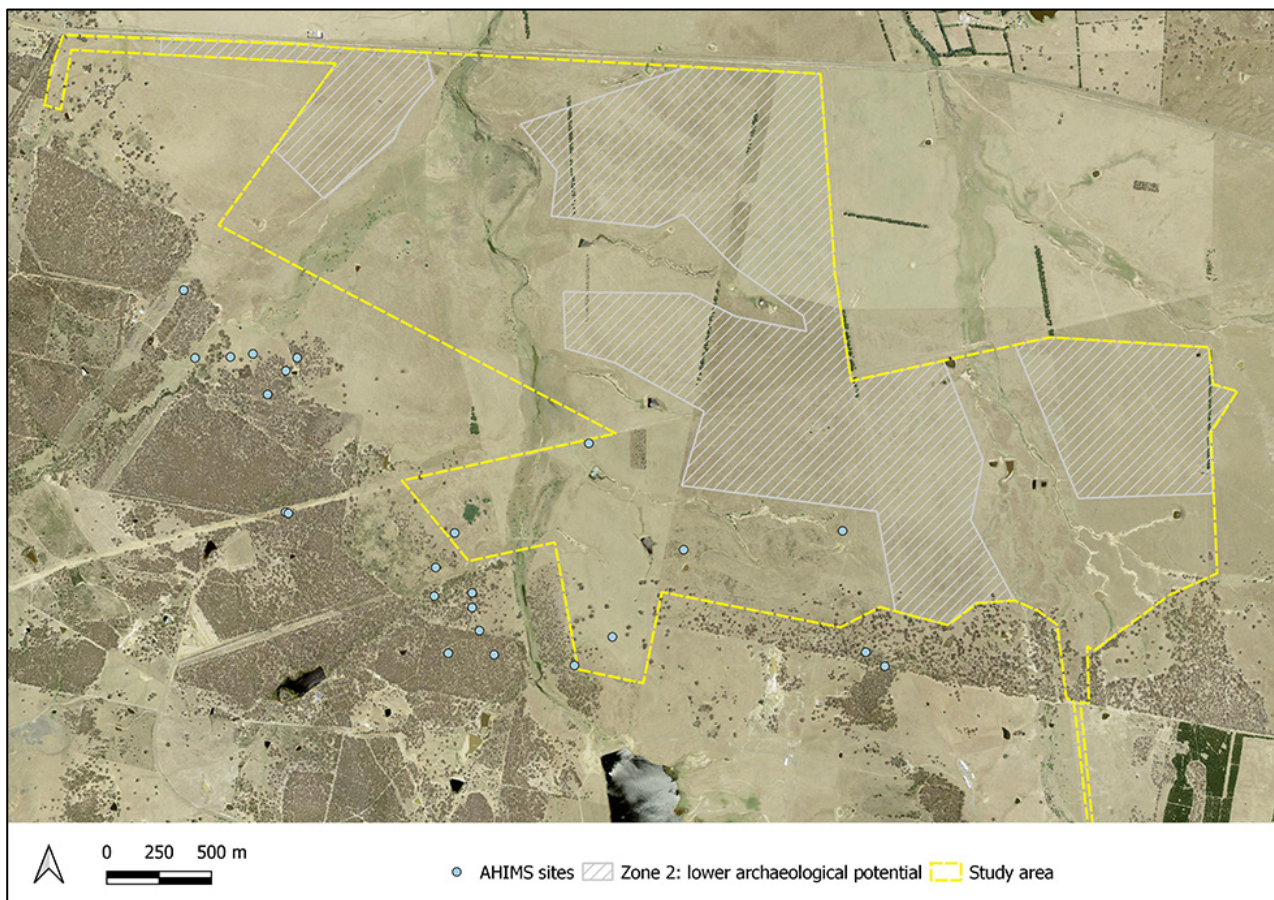
If in the field the archaeologists and the RAP representatives agree that areas within Zone 2 should be more closely surveyed, this will be considered so long as it allows Zone 1 to be adequately assessed. Conversely, with the agreement between the attending archaeologists and RAPs, if areas within Zone 1 are considered to have low archaeological potential, then the survey methodology can be altered to space the transects wider apart within certain portions of Zone 1.

The survey will record all Aboriginal objects to the standards subscribed in the Code of Practice. All previously recorded sites will be located so that their current condition can be assessed.

It will be the responsibility of the archaeologists to ensure that all Aboriginal objects are adequately recorded. RAPs will assist the process through their experience in identifying the location of sites, as well as providing any additional information that may assist in understanding the cultural values of any sites recorded.

The survey will involve a reasonable degree of walking. While the terrain of the survey area is generally of a low gradient, all participants should be prepared for long walks away from the vehicles. Toilet facilities in such open country is also an issue and it will not be feasible to drive people into Marulan for toilet facilities. Therefore, participants will need to be prepared to use 'bush loos' wherever the opportunity presents itself.

Figure 7 – The study area showing Zone 2 areas



5.4 Test excavation

As a requirement of the SEARS (SSD 13137914) outlined in **Section 1.1**, test excavation will be required for the MSF Project, however, the methodology for any test excavation will be prepared and issued separately to this methodology based on the results of the field survey.

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APPENDIX G

DRAFT TEST EXCAVATION METHODOLOGY



Premise

TERRAIN SOLAR

Marulan Solar Farm

DRAFT TEST EXCAVATION METHODOLOGY



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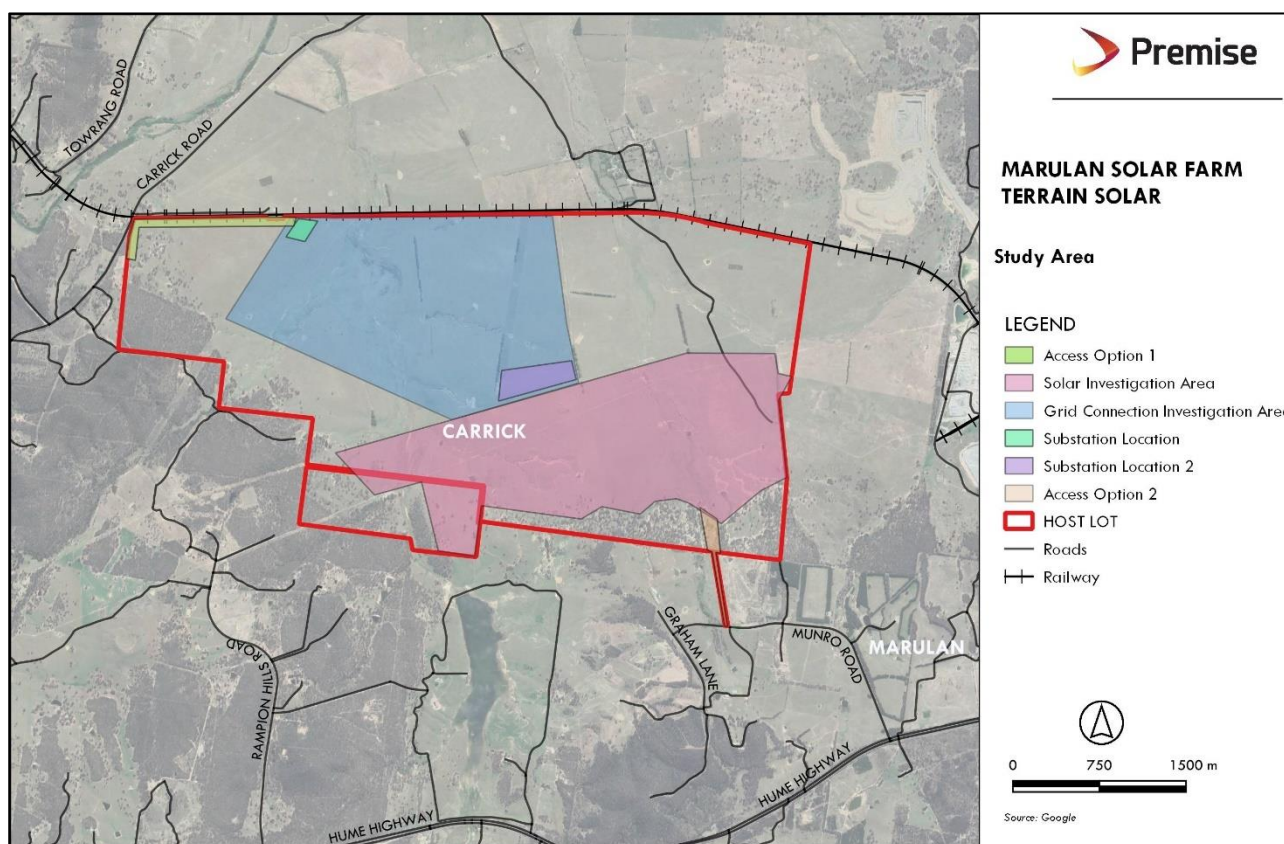
1. INTRODUCTION



Premise Australia (Premise) and OzArk Environment & Heritage (OzArk) have been engaged by Terrain Solar to complete an *Aboriginal Cultural Heritage Assessment Report* (ACHAR) for a proposed solar farm in Marulan NSW referred to as the Marulan Solar Farm (MSF) project. The MSF is in the Goulburn Mulwaree Local Government Area (LGA). The location of the Marulan Solar Farm is shown on **Figure 1**. The 'host lot' refers to the larger cadastral area within which the 'study area' is located. All project impacts will be in the study area that includes the solar investigation area (where the solar panels are planned to be located), grid connection routes (this area will not be fully impacted but is included in the assessment to allow some project flexibility as to where electricity lines are placed), proposed substation locations (assume full impact at these areas), and access options (assume full impact).

This methodology is prepared in accordance with Stage 3 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (ACHCRs). It has been prepared by Ben Churcher, OzArk Principal Archaeologist.

Figure 1 – Marulan Solar Farm Host Lot and Study Area



1.1 Project Overview

Terrain Solar is proposing to develop an approximately 150-megawatt (MW) solar farm, plus an optional battery energy storage system with a potential capacity of up to 150 MW (600 MWhours) on land approximately five kilometres (km) west of the NSW town of Marulan, NSW.

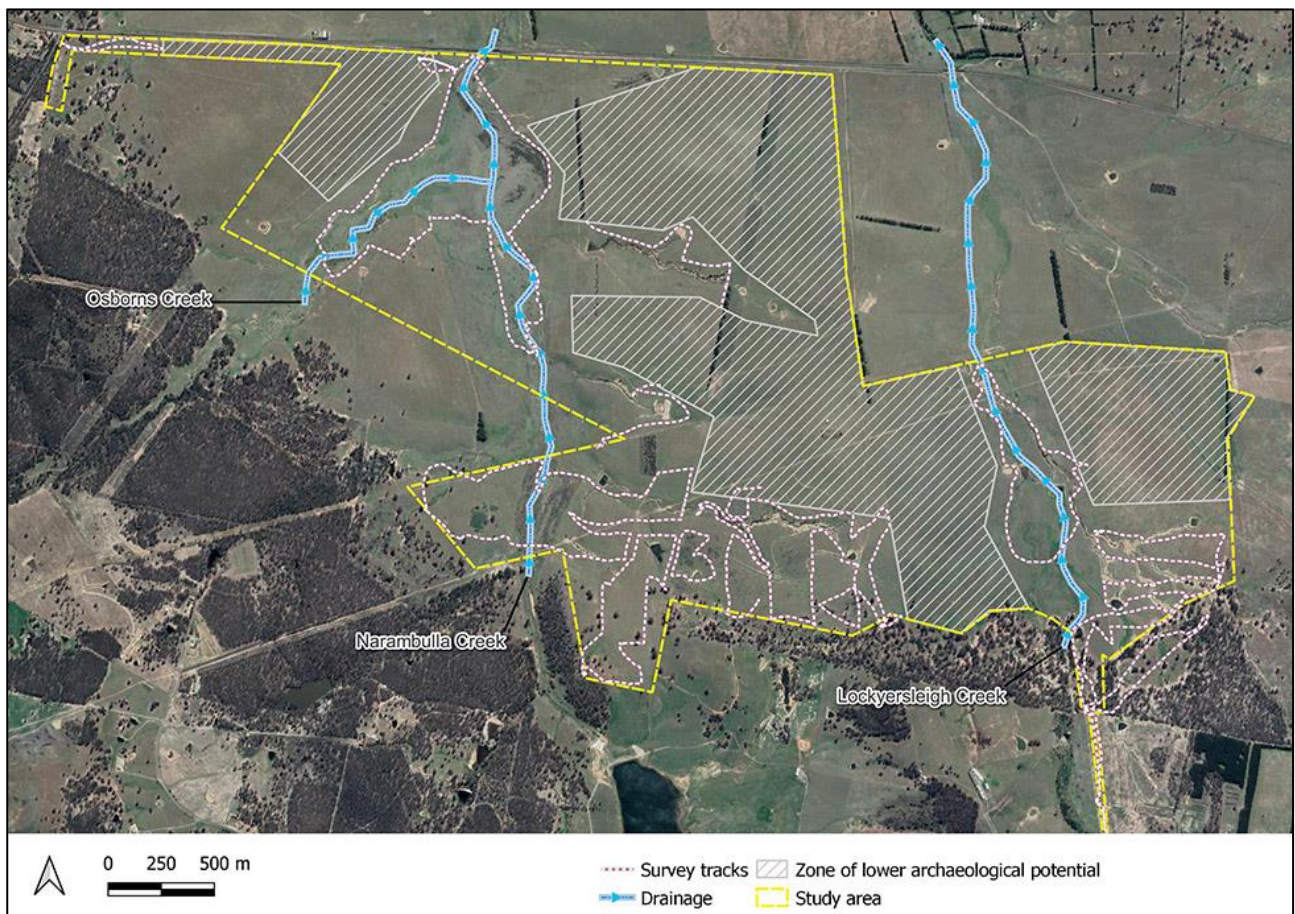
The MSF is being assessed as a State Significant Development under the *Environmental Planning and Assessment Act 1979*. The Secretary's Environmental Assessment Requirements (SEARs) (SSD 13137914) for the project have been received. The SEARs specify that an Environmental Impact Statement (EIS) must be prepared and that the EIS include an ACHAR to identify and describe the Aboriginal cultural heritage values that may be impacted by the proposed development.

1.2 Aboriginal cultural heritage survey

From 28–30 September 2021, survey of the study area was undertaken by archaeologists from Premise and OzArk with the assistance of the Pejar Local Aboriginal Land Council. The survey followed the methodology that had been issued to all Registered Aboriginal Parties (RAPs) and concentrated on landforms with greater archaeological potential. Landforms with lower archaeological potential were spot checked but not systematically surveyed (see **Figure 2**). This survey will be detailed in the ACHAR along with the test excavation results.

The survey recorded an isolated quartz artefact in a disturbed context on a farm track in a mid-slope landform. While all previously recorded sites within the study area were revisited, no surface artefacts were visible at any location.

Figure 2 – Aerial of the study area showing survey tracks



This aerial shows the survey tracks of one of the three surveyors. Areas of lower archaeological potential were spot checked, often by vehicle transects, and are not shown here. The three main creeks discussed below are shown on this figure.

The major constraint to the survey was generally low ground surface visibility that ranged from zero to around 40% where features such as tracks afforded a view of the ground surface. Nevertheless, the survey was able to characterise the archaeological potential of landforms within the study area, although the test excavation program set out in this document will be able to provide further certainty to this assessment.

The survey demonstrated the following landform characteristics of the study area:

- The major creek within the study area is Narambulla Creek that flows in the western portion of the study area. Narambulla Creek is within a relatively broad alluvial valley consisting of the main creek channel, overflow channels, and abandoned channels. The valley, particularly in the broader portion in north of the study area, is boggy, although the main channel becomes more defined within a narrower valley in the south. Adjacent slopes descend directly into the alluvial valley without areas of terraces or creek flats (**Figure 3**)
- Osborns Creek within the study area is likewise in a broad alluvial valley without associated terraces or creek flats. Osborns Creek joins Narambulla Creek within the study area in a widespread area of boggy, dark, alluvial soil and water tolerant plants such as tussock grasses and spiny rush (**Figure 3**)
- Lockyersleigh Creek within the study area is within a narrower valley compared to Narambulla Creek, but unlike Narambulla Creek, is incised and heavily eroded (**Figure 4**). Tributaries flowing to Lockyersleigh Creek from the south-eastern corner of the study area are similarly eroded (**Figure 5**). It is suspected

that these tributary channels would not have been evident prior to land clearing and subsequent sheep grazing

- Other landforms outside of the creek channels consist of simple slopes and spurs, often impacted by contour banking.

In terms of previous Aboriginal settlement in the study area, it is considered that the creek valleys of Narambulla, Osborns and Lockyersleigh Creeks would have provided resources but not occupation areas due to their nature as low gradient, braided creek channels consisting of alluvial soils that tend to be boggy in wetter seasons. The incised channels present today along Lockyersleigh Creek and its tributaries would not have been present pre-1788 and the study area would have presented as a broad area of swampy creek channels surrounded by low hills. As the creek systems lack terraces or creek flats, any longer-term occupation would have been on the more elevated adjacent landforms where level benches were available.

The study area is best characterised as 'open' without shelter from the colder westerly winds and few sheltered locations such as narrow valleys. The implication is that the study area was probably more intensively used seasonally in the warmer months and that larger base camps were probably located outside of the study area in more sheltered locations that exist to the immediate west and south, and further afield, to the east.

All portions of the study area have undergone considerable impact from the first period of colonisation. This includes wide-spread vegetation clearance and long-term grazing by hard hoofed animals. These factors have led to widespread issues with erosion (assisted by the dispersible granite-based soils). To combat the erosion, soil conservation measures have been implemented including fencing off eroded waterways from stock and the construction of extensive contour banking. The result of these impacts on the archaeology of the study area has resulted in extensive soil loss (potentially removing or dispersing stone artefact sites) and the potential removal of entire classes of sites such as culturally modified trees, stone arrangements and even burials, had they existed.

Some photographs of the study area are provided to help gain a visual impression of the study area.

Figure 3 – View of Narambulla Creek



In this view looking south along the Narambulla Creek valley the following features are identified:

- *Red arrow shows the broad alluvial channel for Narambulla Creek. This area consists of the main creek channel, as well as associated overflow channels, in generally boggy terrain*
- *Pink arrow shows Osborns Creek at its confluence with Narambulla Creek. This channel has the same boggy characteristics as Narambulla Creek*
- *Blue arrow shows the course of Narambulla Creek within the study area. Note that while the creek valley narrows in the south, the creek channel remains boggy*
- *The more elevated landforms outside of the creek channels consist of simple slopes and minor spurs, and it can be noted that the slopes descend directly to the creek channels without terraces or dry creek flats.*

Figure 4 – View of Lockyersleigh Creek



In this view looking southeast, the deeply incised nature of Lockyersleigh Creek can be seen. Also visible to the west (right) of the main channel is an overflow channel. At present, the main channel of the creek is close to the adjacent slopes to the east (left) and the western edge of the alluvial channel for the creek can be seen by the line of tussock grasses that border the channel and the adjacent slopes to the right. This view shows the alluvial channel being restricted by adjacent slopes in the foreground and then opening towards the south with the visible dam in the distance at the centre of the channel.

Figure 5 – View of tributaries to Lockyersleigh Creek



View looking to the west of the numerous tributary channels to Lockyersleigh Creek in the south-eastern portion of the study area. These tributaries illustrate the severe erosion that has occurred. It is unlikely that these tributaries would have been channelised prior to 1788 but rather water would have flowed across the surface in a dispersed manner. Therefore, these channels should not be seen as features that would have attracted Aboriginal occupation in the past.

2. TEST EXCAVATION METHODOLOGY

2.1 Secretary's Environmental Assessment Requirements (SEARS)

The SEARs for the project issued on 19 February 2021 state:

Heritage NSW advises that a full archaeological assessment, including test excavations, is required because Aboriginal sites with subsurface potential have already been identified within the project area. Test excavations need to be undertaken as part of the upfront EIS assessment to inform the design and approvals process for the whole area that will be affected by the development.

While the survey did not identify particular locations where it was thought likely that subsurface archaeological deposits of conservation value are present, it is noted in the advice provided by Heritage NSW that:

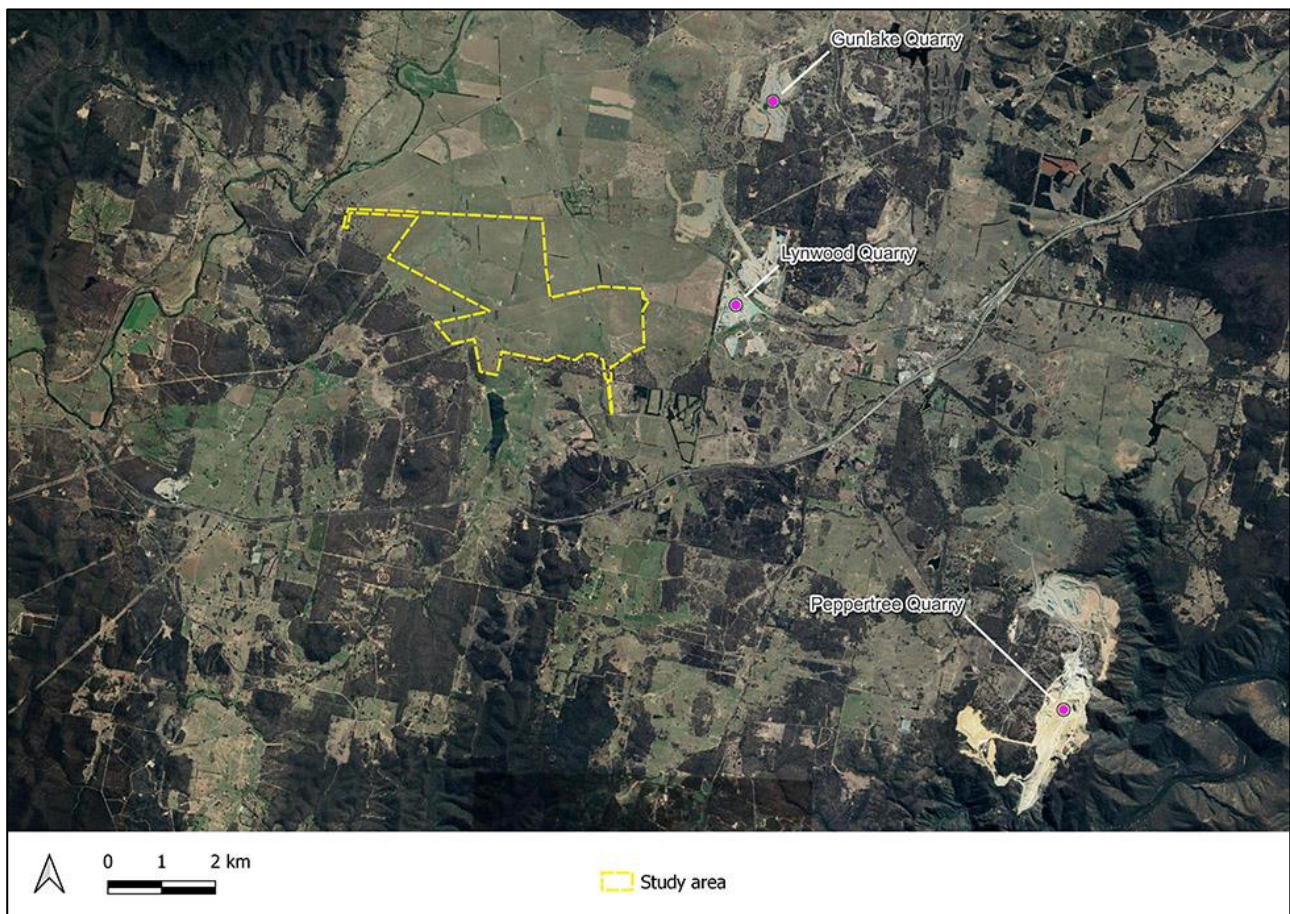
At the immediately adjacent Lynwood Quarry, research has shown that surface artefact assemblages in this region are not a reliable indicator of the density of subsurface artefacts: 526 artefacts were recorded on the surface but 4,691 were recovered from salvage excavations (Umwelt 2013). Cultural Heritage Management Zones have been established to the east of the current project area at Lynwood to protect important areas. Highly significant cultural values have also been identified to the north of the proposed Marulan solar farm.

Although it is noted that the Lynwood Quarry is not 'immediately adjacent' to the study area (being 1.3 kilometres to the east of the study area at its closest point), the general point made by Heritage NSW is accepted and that the archaeological work undertaken at the Lynwood, Gunlake, and the slightly more remote Peppertree Quarries has demonstrated a rich archaeological resource in the area.

However, the topography of the study area needs to be examined to understand how it might relate to the quarry sites and it is noted that the three quarries occupy a different topography to that of the study area (**Figure 6**). In the case of the Gunlake and Lynwood Quarries, both are associated with a range of low hills that remain wooded, while the Peppertree Quarry is located near more substantial hills and a major water source of the region, the Shoalhaven River. Lynwood Quarry is also adjacent to Jaorimin Creek that is a more substantial waterway when compared to those in the study area. The quarry sites therefore occupy ecotones between hills and open country that provided shelter and a richer array of resources. By extension, this made the quarry sites favourable occupation locations. In contrast, the open, rolling hills of the study area presents a very different topography and likely a very different archaeological resource as it was not as favourable as a long-term camping location.

The importance of topography to traditional settlement strategies is underlined by the findings at the nearby Lynwood Quarry where during survey of the project area in 2004, a stone arrangement, a large artefact scatter and a number of scarred trees were recorded in a partially hidden valley. This area was identified by Bill Hardie from the Gundungurra Tribal Council Aboriginal Corporation as a ceremonial precinct (Umwelt 2015). This area was unique within the project area as it was the only valley within the area where the topography was of a nature that obscured the ceremonial area from view from all compass directions. It is noted that the ceremonial precinct has been conserved by Holcim Australia within a Cultural Heritage Management Zone. In contrast, the open country of the study area does not include such topographies that may have attracted or concentrated occupation.

Figure 6 – Location of neighbouring quarries to the study area



2.2 Landforms likely to preserve archaeological deposits

Archaeological Heritage Surveys was commissioned to undertake an assessment of Lots 24, 25, 41, 42 and 43 (constituting approximately 2500 hectares [ha]) on the 'Lockyersleigh' property which includes part of the study area (Saunders 2005). Survey areas were assessed for their archaeological sensitivity based on previous archaeological research, topography, and prior land use. As a result, six areas of particular sensitivity were identified for intensive survey, and these included:

- Elevated land associated with Osborne Creek (Area 1 = 75 ha)
- Narambulla Creek (Area 2 = 148 ha)
- Lockyersleigh and Joarimin Creek (Area 3 = 135 ha)
- Lightly timbered low gradient slopes and drainage lines in the north-eastern corner of the proposed subdivision (Area 4 = 219 ha)
- A section of Lockyersleigh Creek, adjacent flats and locally elevated areas overlooking the flats (Area 5 = 12 ha)
- A basal slope/crest beside Narambulla Creek (Area 6 = 6 ha).

The survey, among other findings, located what was described by Saunders (2005) as two site complexes, one associated with Osbornes Creek the other associated with Narambulla Creek (both of which are within the study area, although the identified site complexes are outside the study area: see below). The sites within the site complexes were described as follows (**Figure 7**):

Osborns Creek Complex

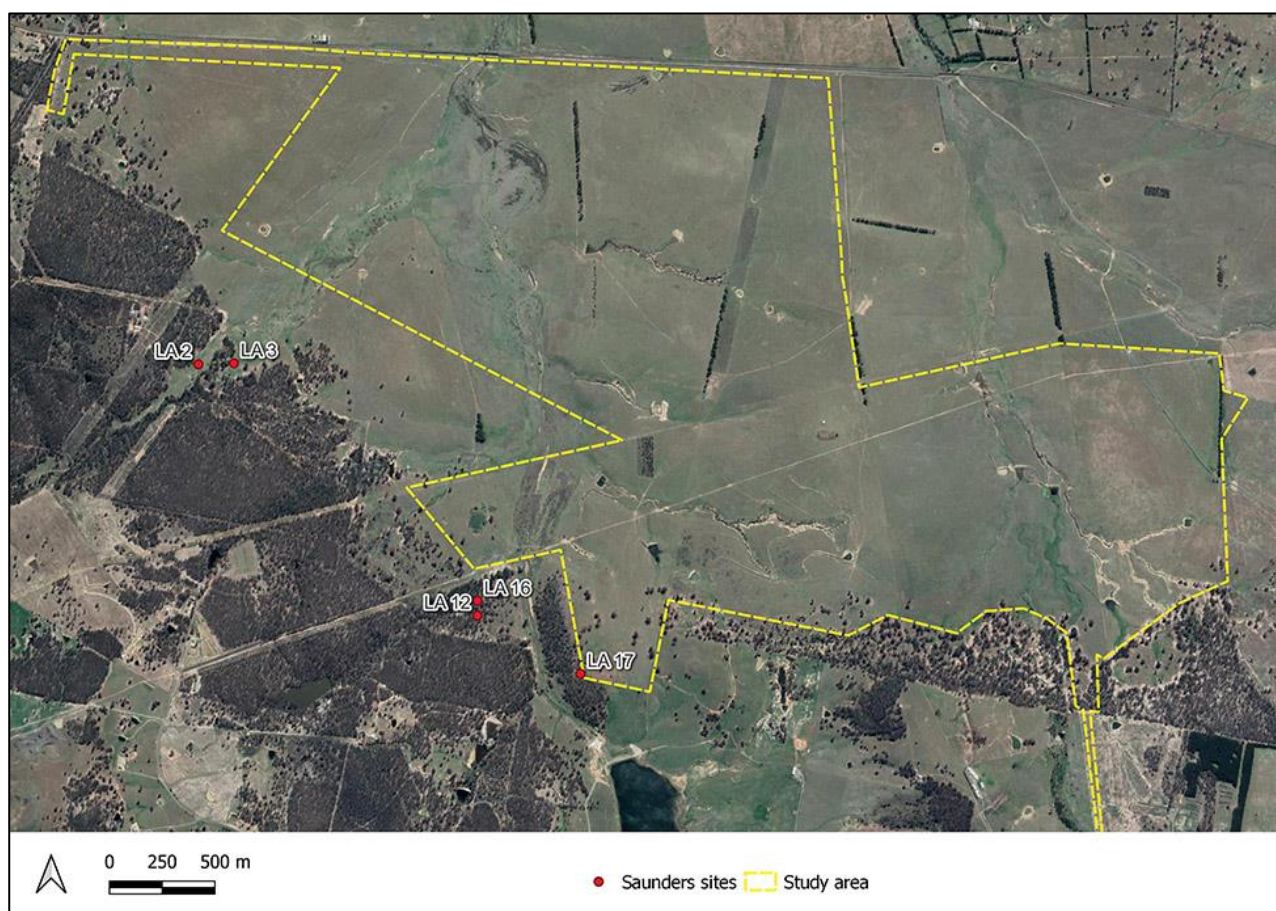
- Osborns Creek – LA2 – 50 to 100 artefacts within a site area of 25 metres by 12 metres. Artefact types included flakes and cores manufactured from silcrete and quartz
- Osborns Creek – LA3 – 74 artefacts within a site area 90 metres by 10 metres. Artefact types included flakes, flaked pieces, cores, and flaked pebbles manufactured from silcrete, quartz, quartzite, chert and tuff.

Narambulla Creek Complex

- Narambulla Creek – LA12 – 51–100 artefacts within a site area 80 metres by 12 metres. Artefacts included flakes, flaked pieces, cores, and a backed blade manufactured from silcrete and quartz
- Narambulla Creek – LA16 – 100+ artefacts within a site area 150 metres by 80 metres. Artefacts included flakes, flaked pieces, cores, chips, modified flakes and at least one hammerstone. The artefacts were manufactured from silcrete, quartz and volcanic
- Narambulla Creek – LA17 – 100+ artefacts within a site area 270 metres by 30 metres. Artefacts included flakes, flaked pieces, and cores manufactured from silcrete and quartz.

These sites are close, but outside of, the study area. As was noted above, topography is important in determining the location of sites. Whereas the sites in Saunders' complexes often had in excess of 100 artefacts, the sites she recorded nearby but within the study area (LA9, LA18, LA19 and LA20 (3, 2, 2, and 1 artefacts respectively) had significantly lower artefact densities. As Saunders' site complexes are closer to the shelter of the neighbouring hills to the west of the study area, the implication is that these ecotones were more favourable long-term occupation locations when compared to the open, rolling hills of the study area; even if the sites are in relative proximity.

Figure 7 – Site complexes recorded by Saunders



Following these observations of topography, Umwelt 2005, noted in their survey of the then proposed Lynwood Quarry that most sites were found to be located along watercourses with 24 of the 50 sites located within 30 metres of a watercourse. In terms of landform, 22.9 per cent of sites were located along the banks of minor tributary channels and 29.2 per cent were located along the banks of the higher order tributary channels. Away from watercourses, 10.4 per cent of sites were located on lower spur slopes, 10.4 per cent on the midslopes of spurs and 4.1 per cent located on the upper slopes of spurs. Spur crests and saddles contained 22.9 per cent of the sites; although, as noted by Umwelt, the survey ground surface visibility was a determining factor in site visibility.

Similarly, subsequent surveys at the Lynwood Quarry, Umwelt (2007a, 2007b) recorded 15 sites, nine of which were located on spur crest landforms, four on slope landforms (two upper slope, one footslope, and one lower slope), and two sites were located on rocky spur crest landforms. Six of the sites were located within 30 metres of a watercourse, two sites were located 30 to 50 metres from a watercourse, and seven sites were located more than 50 metres from a watercourse.

The results of Umwelt surveys conform to the general pattern of site distribution whereby there is a strong correlation between watercourses and Aboriginal occupation. However, in the case of the study area, it has already been noted that the nature of the watercourses cannot be related to those encountered by Umwelt at Lynwood in their 2005 survey as they lack 'banks' (a landform that accounted for 52.1 per cent of all Umwelt sites). Rather, the broad alluvial channels present in the study area lack a clearly defined permanent channel but are rather a floodway of migrating channels and overflow channels where one would not expect archaeological deposits to be retained, had they ever existed. As such, the Umwelt 2005–2007 findings at the

Lynwood Quarry have limited application to the study area, except in noting that a number of sites were also recorded in spur and crest landforms in association with water; landforms that are present in the study area.

In terms of subsurface archaeological excavation, Umwelt (2013) undertook a major program of excavation between 2007–2011 which followed surface survey and a test excavation program. In total, 5217 artefacts were recovered from 37 sites. Surface artefacts were collected from 13 of the 37 sites and subsurface artefacts were recovered from 34 of the 37 sites (most of these sites were located through the subsurface testing program rather than the surface survey). Of the 5217 stone artefacts recovered, 526 were from surface collection with the remaining 4691 artefacts were recovered during the subsurface testing and salvage program.

Of the 34 sites where artefacts were recovered from a subsurface context:

- Nineteen sites had less than 10 artefacts
- Seven sites had 10 to 20 artefacts
- Two sites had between 20 and 50 artefacts
- Three sites contained between 200 and 500 artefacts
- One site had between 500 to 1000 artefacts
- Two sites had greater than 1000 artefacts.

The three sites with over 500 artefacts included MRN73 (761 artefacts, gentle lower slope above Marulan Creek [sic, from the mapping it would appear MRN73 is associated with a creek north of Marulan Creek]), MRN27 (1314 artefacts, spur crest and adjoining slope to Joarimin Creek) and MRN54 (1392 artefacts, spur crest and adjoining slope down to Joarimin Creek). The overall subsurface artefact densities were much higher in MRN27 (32.85/m²), than MRN54 (0.4/m²) and MRN73 (0.05/m²).

Across the whole excavation program, 77.2 per cent of sites were located on a spur crest and 20.5 per cent were located on spur crests and adjoining slopes. The remainder of sites were in slope or saddle landforms.

In summary the Umwelt investigations demonstrated that:

- Most sites were located close to watercourses
- Sites located close to watercourses tended to contain relatively higher numbers of artefacts than those sites further away from a watercourse
- Most sites contained less than 10 artefacts
- Only one site (MRN27) had more than 50 surface artefacts
- Quartz and silcrete were the most common raw materials used for artefact manufacture recorded within the surface assemblage during survey
- Flakes, broken flakes, and flaked pieces were the dominant artefact types recorded within the surface assemblage during survey
- The dominant raw materials and artefact types identified within the surface assemblages were generally similar to the dominant raw materials within the subsurface assemblages
- Sites with low numbers of surface artefacts generally also had low numbers of subsurface artefacts except for site MRN25, where the number of subsurface artefacts was higher than anticipated
- Although the results of the surface survey and testing program were comparable in terms of which landforms were most likely to contain sites, the test program did identify a greater use of the gentle slope landform than reflected by the survey results due to poor ground surface visibility in these heavily grassed areas

- The larger sites within both the surface surveys and test program were found to be located on spur crests and their adjoining short, low gradient slope down to a watercourse
- The high proportion of isolated finds and small artefact scatters suggests a general low density background scatter of artefacts that most likely reflects transient use of the landscape rather than periods of occupation and/or camping with just a few locations targeted for camping.

2.2.1 IMPLICATIONS FOR THE STUDY AREA

From the regional context, and particularly the investigations by Umwelt at the nearby Lynwood Quarry, it has been demonstrated that:

- There is a loose association between surface artefacts and subsurface artefacts both in term of numbers of artefacts and the types of raw material utilised
- There is a strong correlation between site location and proximity to water
- Where more regular hydrological features are present such as creek banks and creek flats, these are likely to record sites
- Spurs and associated slopes near water also have a high likelihood of recording sites
- Artefact scatters and isolated find sites will occur in most landform contexts, however, they are most likely to be in association with waterways, on benches near creek lines, and on the spur crests
- Quartz and silcrete are the dominant raw materials utilised with other raw materials such as quartzite, chert, dolerite, hornfels, volcanic, petrified wood, chalcedony, ignimbrite, granite, and aplite also present but forming a minor proportion of the assemblage
- The high number of isolated finds and small artefact scatters represents a general low density background scatter of artefacts that most likely reflects transient use of the landscape rather than periods of camping with just a few locations with large assemblages being used for camping
- Due to the intensity of European land-use practices and the sandy nature of the soils, stratigraphic integrity of site soil profile is highly unlikely.

As has been noted previously, the study area lacks landforms such as creek banks and creek flats, although spur landforms in association with water are present.

The following test excavation methodology will therefore concentrate on elevated landforms in association with water, rather than within or near the alluvial creek channels. Further, the test program will investigate both areas where artefacts have been previously observed (although were not visible during the survey) and landforms that were noted during the survey as affording elevated level ground near waterways.

2.3 Archaeological testing Methodology

2.3.1 ASSESSMENT APPROACH

An archaeological test program is proposed for the study area, the objectives of which are to:

- Carry out test excavations as per the *Code of Practice for Archaeological Investigation of Aboriginal objects in NSW* (Requirements 14–17)
- Assess the Aboriginal archaeological potential of certain areas within the study area
- Identify any further investigations, and mitigation and management measures that may be required, should the project proceed.

Reporting relating to the archaeological test program will be incorporated into the ACHAR. A draft copy of the ACHAR will be sent out to all RAPs for review, prior to finalisation of the document.

2.4 Test Excavation Aims

The test excavation methodology was prepared considering the following requirements:

- To use the results of previous investigations in the area to target particular landforms within the study area
- To investigate landforms which have recorded artefacts in the past, as well as landforms where no surface artefacts have been identified
- To provide a spatial spread across the study area
- To focus efforts on elevated, level landforms near water.

The results of the test excavation program will be analysed in conjunction with previous archaeological investigations in the immediate area, particularly those that have taken place at the Lynwood Quarry.

The working hypothesis of the test program is that due to the open nature of the topography where the testing will take place, large sites such as those recorded at the Lynwood Quarry will be absent. It is likely that any sites recorded will represent a general low density background scatter of artefacts reflecting transient use of the landscape rather than for periods of camping. This hypothesis is based on the findings of Saunders (2005) which noted larger sites in neighbouring, more sheltered terrain, and only small sites within the rolling hills of the study area. It is also supported by Umwelt (2013) which found a correlation between surface and subsurface artefact densities. As only low-density surface sites have been recorded in the study area, the assumption is that subsurface assemblages will also have a low artefact density.

The test program will contribute to our understanding of the archaeological potential of the study area, and it will be able to test whether this predictive model is correct.

2.5 Test Excavation Strategy

The test excavations will be carried out as per the *Code of Practice for Archaeological Investigation of Aboriginal objects in NSW* (Requirements 14–17). It is noted that should these requirements be adhered to that an Aboriginal Heritage Impact Permit (AHIP) is not required prior to the excavations commencing.

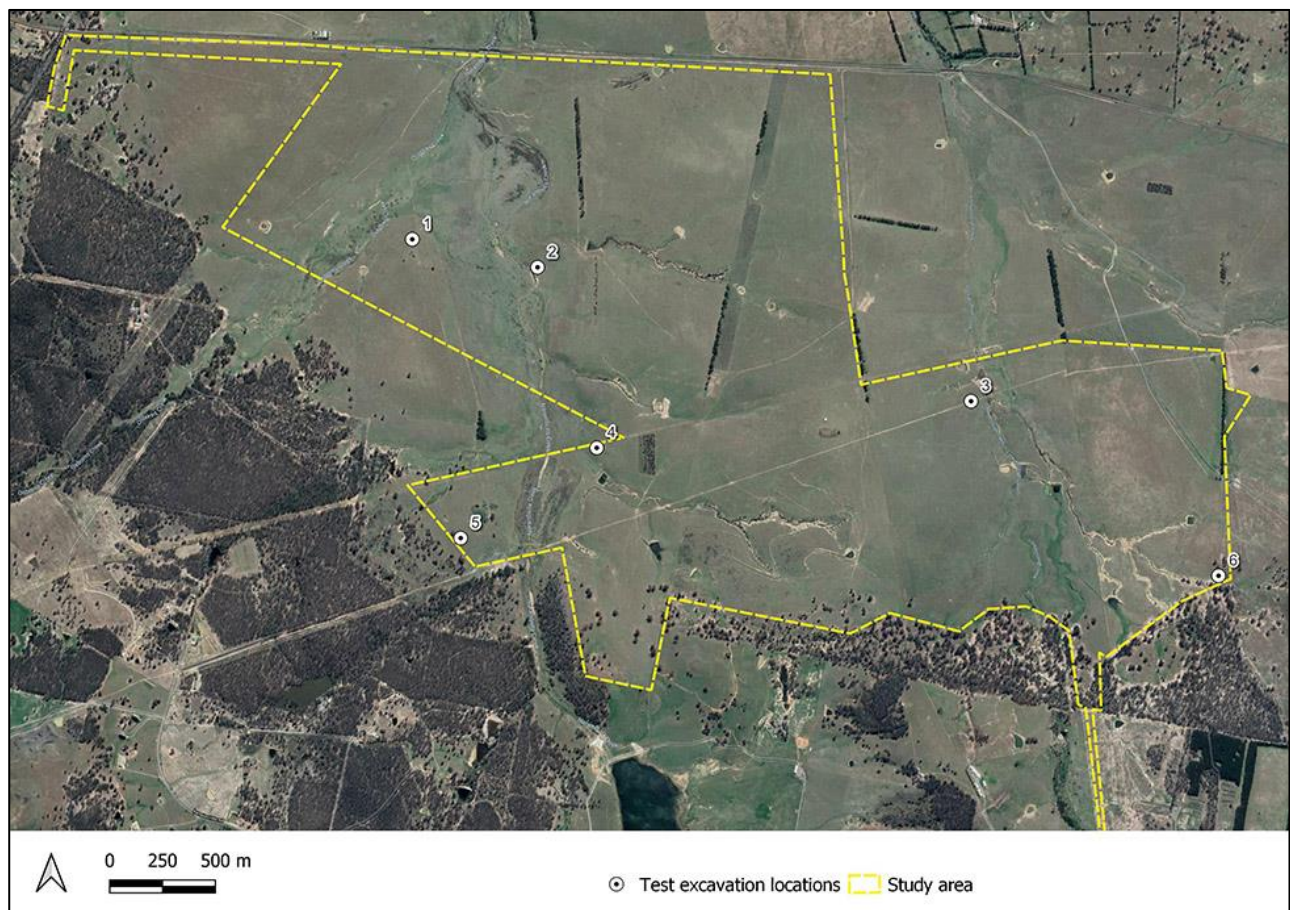
The test excavation program will take place at six locations as detailed in **Table 1** and shown on **Figure 8**.

Table 1 – Test excavation locations rationale

Location	Rationale
1	Elevated bench overlooking the confluence of Narambulla and Osborns Creeks. No previous site recorded at this location. Western side of Narambulla Creek
2	Level elevated landform associated with Narambulla Creek. No previous site recorded at this location. Eastern side of Narambulla Creek
3	Level elevated landform associated with Lockyersleigh Creek. No previous site recorded at this location. Western side of Lockyersleigh Creek
4	Previously recorded site (HSP13, 51-6-0736, artefact scatter). Located on a flat bench within a spur overlooking Narambulla Creek. Eastern side of Narambulla Creek
5	Previously recorded site (LA9, 51-6-0364, artefact scatter). Located on a flat bench overlooking Narambulla Creek. Near historical ruins (a location often selected for the same reasons as Aboriginal occupation). Western side of Narambulla Creek

Location	Rationale
6	Level landform associated with tributaries to Lockyersleigh Creek. On the eastern boundary of the study area close to the Lynwood Quarry

Figure 8 – Proposed test excavation locations



2.6 Sampling strategy

The excavation program will be undertaken by archaeologists and Registered Aboriginal Parties (RAPs) and will include the following aspects:

1. A total of six areas will be investigated across the study area. Preliminary location of excavation squares has been proposed, however exact locations of excavation squares will be discussed and determined on the day in consultation between the Excavation Director and attending RAPs.
2. It is envisioned that 12 excavation squares will be excavated at each location set out in a grid of two rows of six squares each separated by 10 metres.
3. Prior to any excavation, the test excavation areas will be recorded via digital photography and the location of all excavation squares will be recorded with a GPS.
4. It is proposed that 72 excavation units (0.5 metre x 0.5 metre) be excavated at the six locations shown in this document (i.e. 12 squares per location). Excavation squares will be spaced 10 metres apart.
5. Initial excavation squares will be excavated in five centimetre spits to determine whether archaeological stratigraphy is present. If not, spit size will be increased to 10 centimetres. If archaeological stratigraphy

is present, this will be used, so long as the stratigraphic layers are less than 10 centimetres deep. Otherwise, excavation will remain at five or 10 centimetre spits. All excavation will be by hand.

6. Depending on the depth to the A-Horizon (generally associated with cultural deposits) identified in the excavation squares, additional square/s may be placed adjacent to the original excavation square (making the excavation area 0.5 metre x 1 metre) to determine the depth of the horizon and identified stratigraphic information should the squares become too deep to excavate at 0.5 metre by 0.5 metre. The decision on when to stop excavation will rest with the Excavation Director although Requirement 16a, point 9 will be followed. This states: *Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units, and must continue to confirm the soils below are culturally sterile.*
7. The excavated material from all squares will be sieved on site using dry sieving through nested sieves of 6–8 millimetre and 2.5–3.5 millimetre mesh (which is considered to satisfy the five millimetre aperture wire-mesh sieve requirement).
8. Each excavator (by hand) will be responsible for sieving the deposit from their square, retrieving the artefacts and, in conjunction with the Excavation Director, correctly recording their provenance. Deposits will be sieved on to tarpaulins and the spoil used to backfill the excavation square once the square has been photographed and recorded
9. A standard excavation recording form will be used for each excavation square. Details will include: date; site recorder; spit number and depth; description of finds; description of soil; sketch plan of an appropriate section (if relevant to show structure soil profile/stratigraphy); end of spit levels; and soil pH (when necessary or appropriate).
10. It is envisioned that the excavation crew will consist of three archaeologists and five RAP representatives over five days. The excavator of each square (both archaeologists and/or RAPs), in conjunction with the Excavation Director, will be responsible for ensuring any forms are correctly completed. It will be the Excavation Director's responsibility to perform all photographic tasks, undertake any planning and section drawing if required and to ensure that a correct location of each square is maintained.
11. Given that the work will be physical, all persons participating on the test excavation program should be aware of this and be 'fit for work' (see **Section 2.7**).
12. If intact archaeological deposits or archaeological features are encountered, then additional archaeological excavation squares may be excavated to ensure documentation of any features and/or retrieval of artefacts and other relevant archaeological material. A feature would include a high density of artefacts within a square (such as more than 20 artefacts per square metre excluding angular shatter and small flakes without discernible flake attributes), or a square containing rare or unusual artefacts (such as artefacts constructed from a stone type rarely represented in the area or less-common tool forms), or other signs of human occupation, such as ground ovens/hearths or charcoal concentrations.
13. Where a high density of artefacts is recorded in an excavation square (more than 20 artefacts per metre square, excluding angular shatter and small flakes without clear artefact attributes), expansion will take place if the Excavation Director considers that it is archaeologically warranted. Any decision to expand will be undertaken in consultation with the attending RAPs so that the reasons for why expansion is, or is not, being undertaken are understood by all participants. Expansion will involve opening an additional test square immediately adjacent to the original test square. Ordinarily, expansion will be limited to two additional 0.5 metre by 0.5 metre squares around the original square as this will allow sufficient data to be gained as to whether subsurface deposits are present at that particular location. However, if the finds indicate that it is archaeologically warranted to continue an expansion area, this decision will be made by the Excavation Director in consultation with the attending RAPs.

14. Photographic and scale-drawn recordings of the stratigraphic/soil profile features and informative Aboriginal objects must be made for each single excavation square if warranted (i.e. archaeological stratigraphy is encountered). At a minimum, an indicative section of each square will be photographed.
15. Analysis of all excavated lithics will be made to determine the site's characteristics and to enable the site to be compared with other sites in the region. Analysis will also assist in determining what type of activities the Aboriginal people carried out at the site and their relationship with local resources (fauna, flora, water, and stone). All artefacts will be analysed and selectively photographed, and the more diagnostic artefacts may be drawn by a lithic specialist.
16. If charcoal from a secure context is obtained, it may be sent to a laboratory for C14 dating (subject to proponent's agreement). If deposits dictate it, further dating attempts may be warranted (e.g. thermoluminescence, subject to proponent's agreement).
17. Any faunal remains recovered will be analysed by a fauna specialist. Remnant shell and bone fragments may assist in determining what foods Aboriginal people may have eaten at the specific site and may elucidate possible foraging strategies. In conjunction with in-situ stone tools, bone/shell fragments may also provide evidence of specific usage of stone tools for food processing.
18. Artefacts will be analysed at the OzArk office (145 Wingewarra St Dubbo 2830) and then remain at the Premise office (154 Peisley Street Orange 2800) when the analysis is complete. The artefacts will be kept at a locked location until point 20 below is enacted.
19. Excavation results will be used to advise further courses of action in relation to the management and mitigation options for the proposal. The results will be presented in the updated ACHAR as per Requirement 11 of the Code of Practice.
20. Once all salvage activities for this proposal are complete any artefacts discovered will be either subject to a future care agreement negotiated between the RAPs and Heritage NSW, or reburied in accordance with Requirement 26 of the Code of Practice. The long-term management of any recovered artefacts will be determined in consultation with the RAPs.

2.6.1 COMPLIANCE WITH THE CODE: REQUIREMENT 16

The following points are necessary to comply with Requirement 16 of the Code of Practice and where these requirements are addressed in the test excavation methodology.

1. Test excavation units must be placed on a systematic grid appropriate to the scale of the area—either PAD or site—being investigated e.g. 10 metre intervals, or other justifiable and regular spacing.

Complies. See **Section 2.6** point 1. The sampling strategy outlined above complies with this requirement. All pits will be confined to within the defined areas and placed along linear alignments in the area proposed for the ground disturbance work.

2. Any test excavation point must be separated by at least five metres.

Complies. See **Section 2.6** point 2. The sampling strategy outlined above complies with this requirement as all pits will be separated by 10 metres. However, depending on the depth to the A-Horizon identified in the squares, additional square/s may be placed adjacent (making the squares 0.5 metre by 1 metre) to determine the depth of the A-Horizon and identified stratigraphic information should the squares become too deep to excavate at 0.5 metre by 0.5 metre. The Code allows for expansion around pits displaying an archaeological feature. See **Section 2.6** points 6 and 12.

3. Test excavations units must be excavated using hand tools only.

Complies. See **Section 2.6** point 5.

4. Test excavations must be excavated in 0.5 metre x 0.5 metre units.

Complies. See **Section 2.6** point 4

5. Test excavations units may be combined and excavated as necessary to understand the site characteristics, however:
 - i) the maximum continuous surface area of a combination of test excavation units at any single excavation point conducted in accordance with point 1 (above) must be no greater than 3 m².

Complies. See **Section 2.6** point 13.

- ii) The maximum surface area of all test excavation units must be no greater than 0.5% of the area—either PAD or site—being investigated.

Complies. Four of the six locations are situated where there is no previously recorded site. At the two locations where a previously recorded site exists, the site extent is unknown as there were no surface artefacts visible at the time of the survey. However, it is considered that the testing will not impact more than the required site area.

6. Where the 0.5 metre by 0.5 metre excavation unit is greater than 0.5% of the area then point 5 (ii) (above) does not apply

Not applicable.

7. The first excavation unit must be excavated and documented in five centimetre spits at each area — either PAD or site—being investigated. Based on the evidence of the first excavation unit, 10 centimetre spits or sediment profile/stratigraphic excavation (whichever is smaller) may then be implemented.

Complies. See **Section 2.6** point 5.

8. All material excavated from the test excavation units must be sieved using a five millimetre aperture wire-mesh sieve.

Complies. See **Section 2.6** point 7.

9. Test excavation units must be excavated to at least the base of the identified Aboriginal object-bearing units and must continue to confirm the soils below are culturally sterile.

Complies. See **Section 2.6** point 6.

10. Photographic and scale-drawn records of the stratigraphy/soil profile, features and informative Aboriginal objects must be made for each single excavation point.

Complies. **Section 2.6** points 3, 9, 10, and 14.

11. Test excavations units must be backfilled as soon as practicable.

Complies. See **Section 2.6** point 8.

12. Following test excavation, if Aboriginal objects have been identified a site card must be completed and submitted to the AHIMS Registrar as soon as practicable. Following the submission of the site card to the AHIMS Registrar an Aboriginal Site Impact Recording form will be completed as in accordance with the requirements of the Code.

It will be the responsibility of Premise/OzArk to ensure that this requirement is met.

2.7 NOTE ON FITNESS FOR WORK

The test excavation program will involve reasonably physical work, including digging and sieving, and generally the work will be in exposed conditions when the prevailing weather conditions will likely be getting hotter.

Premise and OzArk ask that all participants take these conditions into account when nominating for work on the test excavation program. Premise and OzArk reserve the right to ask an individual not to return to the study area to continue the work if they are endangering their own health, or that of their co-workers.

All workers on the program will need to be aware of any regulations regarding social distancing in relation to COVID-19. Should any proposed participant have an underlying respiratory condition making them susceptible to harm from COVID-19, they should not be nominating for work on this program.

Each worker will need to sign a declaration regarding their state of health prior to commencing work.

3. REFERENCES

- Saunders 2005. *Aboriginal Archaeological Assessment Proposed Rural Subdivision 'Lockyersleigh' Lots 24, 25, 41, 42 and 43 Parish of Billyrambija, NSW*. Report for R.J. Kell and Co.
- Umwelt 2005. *Environmental Impact Statement – Proposed Lynwood Quarry, Marulan. Appendix 11, Aboriginal Archaeology Assessment*. A report prepared for Readymix Holdings Pty Ltd.
- Umwelt 2007a. *Review of Environmental Factors for Proposed Electrical Transmission Lines, Marulan, NSW*. Report for Country Energy.
- Umwelt 2007b. *Aboriginal Archaeological Assessment of Transmission Line Easements and a Proposed Substation Location near, Marulan, NSW. Appendix F. Review of Environmental Factors for Proposed Electrical Transmission Lines, Marulan, NSW*. Report for Country Energy.
- Umwelt 2013. *Stage 3 Report. Lynwood Quarry Project Area, Marulan, NSW. Integrated Results of Section 87 Subsurface Testing and Section 87/90 Salvage under Aboriginal Heritage Impact Permits #1077225, #1077294, #1089392 and #1100264*. Report for Holcim Australia (Australia) Pty Limited.
- Umwelt 2015. *Aboriginal Cultural Heritage Assessment Lynwood Quarry Extraction Area Modification*. Report for Holcim Australia Pty Limited.



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APPENDIX H









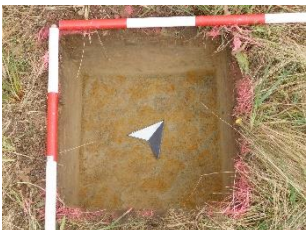











ABORIGINAL TEST EXCAVATION RESULTS AND ARTEFACT ANALYSIS















H.1.1 TEST EXCAVATION PHOTOS – LOCATION 1

Location 1	Location 1	Location 1	Location 1	Location 1
				
Location 1	Transect 1 Unit 1	Transect 1 Unit 1	Transect 1 Unit 2	Transect 1 Unit 2
				
Transect 1 Unit 3	Transect 1 Unit 3	Transect 1 Unit 4	Transect 1 Unit 4	Transect 1 Unit 5
				
Transect 1 Unit 5	Transect 1 Unit 6	Transect 1 Unit 6	Transect 2 Unit 7	Transect 2 Unit 7
				





















Location 1				
Transect 2 Unit 8	Transect 2 Unit 8	Transect 2 Unit 9	Transect 2 Unit 9	Transect 2 Unit 10
				
Transect 2 Unit 10	Transect 2 Unit 11	Transect 2 Unit 11	Transect 2 Unit 12	Transect 2 Unit 12
				













H.1.2 TEST EXCAVATION PHOTOS – LOCATION 2

Location 2 Transect 1	Location 2 Transect 1	Location 2 Transect 1	Location 2 Transect 1	Location 2 Transect 2
				
Location 2 Transect 2	Location 2 Transect 2	Location 2 Transect 2	Transect 1 Unit 1	Transect 1 Unit 1
				
Transect 1 Unit 2	Transect 1 Unit 2	Transect 1	Transect 1	Transect 1 Unit 3
				
Transect 1 Unit 3	Transect 1 Unit 4	Transect 1 Unit 4	Transect 1 Unit 5	Transect 1 Unit 5
				

Location 2				
Transect 1 Unit 6	Transect 1 Unit 6	Transect 2 Unit 7	Transect 2 Unit 7	Transect 2 Unit 8
				
Transect 2 Unit 8	Transect 2 Unit 9	Transect 2 Unit 9	Transect 2 Unit 10	Transect 2 Unit 10
				
Transect 2 Unit 11	Transect 2 Unit 11	Transect 2 Unit 12	Transect 2 Unit 12	
				
















H.1.3 TEST EXCAVATION PHOTOS – LOCATION 3

Location 3	Transect 1	Transect 1	Transect 1	Transect 2
				
Transect 2	Transect 2	Transect 2	Transect 1 Unit 1	Transect 1 Unit 1
				
Transect 1 Unit 2	Transect 1 Unit 2	Transect 1 Unit 3	Transect 1 Unit 3	Transect 1 Unit 4
				
Transect 1 Unit 4	Transect 1 Unit 5	Transect 1 Unit 5	Transect 1 Unit 6	Transect 1 Unit 6
				











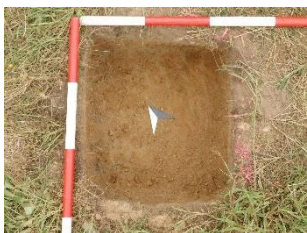







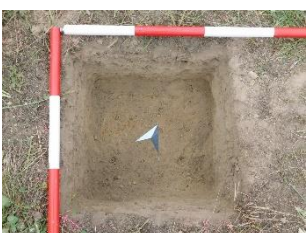

Location 3				
Transect 2 Unit 7	Transect 2 Unit 7	Transect 2 Unit 8	Transect 2 Unit 8	Transect 2 Unit 9
				
Transect 2 Unit 9	Transect 2 Unit 10	Transect 2 Unit 10	Transect 2 Unit 11	Transect 2 Unit 11
				
Transect 2 Unit 12	Transect 2 Unit 12			
				





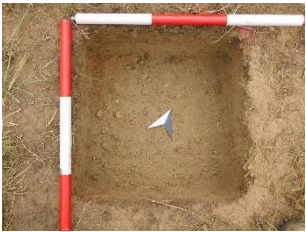







H.1.4 TEST EXCAVATION PHOTOS – LOCATION 4

Location 4 Transect 1	Location 4 Transect 1	Location 4 Transect 1	Location 4 Transect 1	Location 4 Transect 2
				
Location 4 Transect 2	Location 4 Transect 2	Location 4 Transect 2	Location 4 Transect 2	Location 4
				
Location 4	Transect 1 Unit 1	Transect 1 Unit 1	Transect 1 Unit 2	Transect 1 Unit 2
				
Transect 1 Unit 3	Transect 1 Unit 3	Transect 1 Unit 4	Transect 1 Unit 4	Transect 1 Unit 5
				








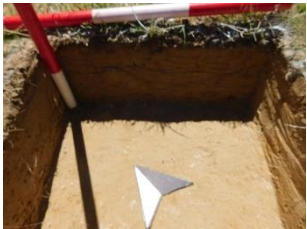












Location 4				
Transect 1 Unit 5	Transect 1 Unit 6	Transect 1 Unit 6	Transect 2 Unit 7	Transect 2 Unit 7
				
Transect 2 Unit 8	Transect 2 Unit 8	Transect 2 Unit 9	Transect 2 Unit 9	Transect 2 Unit 10
				
Transect 2 Unit 10	Transect 2 Unit 11	Transect 2 Unit 11	Transect 2 Unit 12	Transect 2 Unit 12
				









H.1.5 TEST EXCAVATION PHOTOS – LOCATION 5

Location 5	Location 5 Transect 1	Location 5 Transect 1	Location 5 Transect 2	Location 5 Transect 2
				
Location 5	Location 5	Transect 1 Unit 1	Transect 1 Unit 1	Transect 1 Unit 1
				
Transect 1 Unit 2	Transect 1 Unit 2	Transect 1 Unit 3	Transect 1 Unit 3	Transect 1 Unit 4
				
Transect 1 Unit 4	Transect 1 Unit 5	Transect 1 Unit 5	Transect 1 Unit 6	Transect 1 Unit 6
				

Location 5				
Transect 2 Unit 7	Transect 2 Unit 7	Transect 2 Unit 8	Transect 2 Unit 8	Transect 2 Unit 9
				
Transect 2 Unit 9	Transect 2 Unit 10	Transect 2 Unit10	Transect 2 Unit 11	Transect 2 Unit 11
				
Transect 2 Unit 12	Transect 2 Unit 12			
				

H.1.6 TEST EXCAVATION PHOTOS – LOCATION 6

Location 6	Location 6 Transect 1	Location 6 Transect 2	Location 6 Transect 2	Transect 1 Unit 1
				
Transect 1 Unit 1	Transect 1 Unit 2	Transect 1 Unit 2	Transect 1 Unit 3	Transect 1 Unit 3
				
Transect 1 Unit 4	Transect 1 Unit 4	Transect 1 Unit 5	Transect 1 Unit 5	Transect 1 Unit 6
				
Transect 1 Unit 6	Transect 2 Unit 7	Transect 2 Unit 7	Transect 2 Unit 8	Transect 2 Unit 8
				

Location 6				
Transect 2 Unit 9	Transect 2 Unit 9	Transect 2 Unit 10	Transect 2 Unit 10	Transect 2 Unit11
				
Transect 2 Unit 11	Transect 2 Unit 12	Transect 2 Unit 12		
				

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Archaeology & Heritage



Marulan Solar Farm

Aboriginal Artefact Analysis

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Report to:	Premise Consulting
LGA:	Goulburn Mulwaree Council
Date:	March 2022
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1.0 Background Information

1.1 Introduction

OzArk Environment and Heritage (OzArk) undertook Aboriginal archaeological test excavations at the proposed Marulan Solar Farm at 740 Carrick Road, Carrick, NSW in December 2021 and February 2022 in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW* (Office of Environment & Heritage 2010).

A number of Aboriginal objects were recovered during the test excavations and Unearthed Archaeology & Heritage (Unearthed) were commissioned by Premise Consulting on behalf of OzArk to undertake the cataloguing, recording, analysis and photography of the Aboriginal objects. This report details the results of the cataloguing, recording, analysis and photography of the assemblage collected from the Marulan Solar Farm.

1.2 Test Area Location

The test excavation program targeted six areas as detailed below:

- Area 1: Elevated bench overlooking the confluence of Narambulla and Osborns Creeks. No previous site recorded at this location. Western side of Narambulla Creek.
- Area 2: Level elevated landform associated with Narambulla Creek. No previous site recorded at this location. Eastern side of Narambulla Creek.
- Area 3: Level elevated landform associated with Narambulla Creek. No previous site recorded at this location. Eastern side of Narambulla Creek.
- Area 4: Previously recorded site (HSP13, 51-6-0736, artefact scatter). Located on a flat bench within a spur overlooking Narambulla Creek. Eastern side of Narambulla Creek.
- Area 5: Previously recorded site (LA9, 51-6-0364, artefact scatter). Located on a flat bench overlooking Narambulla Creek. Near historical ruins (a location often selected for the same reasons as Aboriginal occupation). Western side of Narambulla Creek.
- Area 6: Level landform associated with tributaries to Lockyersleigh Creek. On the eastern boundary of the study area close to the Lynwood Quarry.

Figure 1 below shows the location of the test excavation areas.

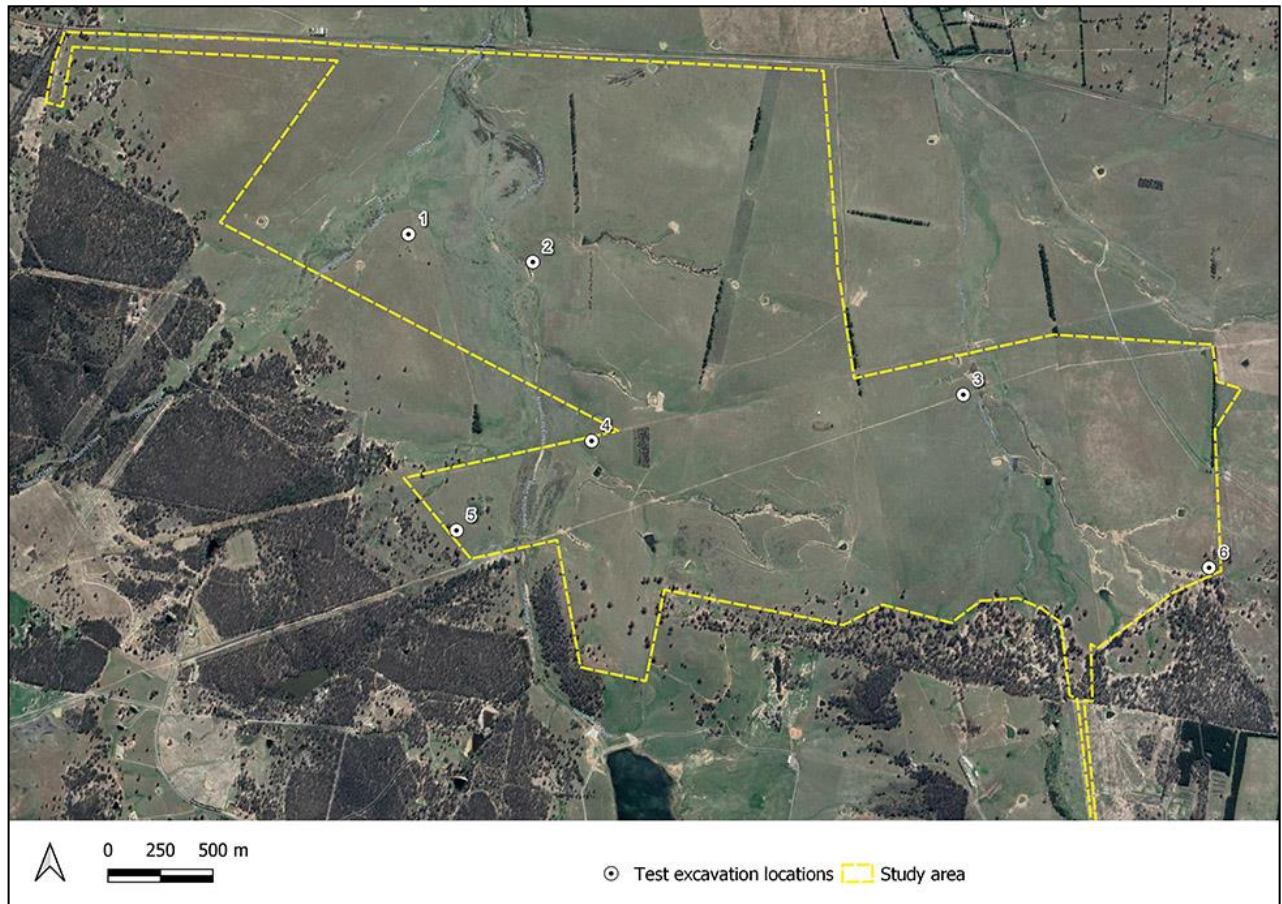


Figure 1: Showing Aboriginal archaeological test excavation locations (map courtesy of Premise Consulting).

2.0 Artefact analysis

2.1 Artefact Identification

Stone artefacts were identified using technical criteria as a result of stone fracture mechanics as described by Speth (1972), Cotterell and Kamminga (1987), Baker (1996), Holdaway and Stern (2004) and Andrefsky (2005).

Each artefact was examined under a 10x hand lens and a DinoLite digital microscope to assist in identifying raw materials and diagnostic features. Diagnostic features used to identify flakes are a platform, point of impact (ring crack) and a bulb of percussion. Some flakes show secondary flaking along the margins which is identified as retouch. Flaked pieces are pieces of raw material that show evidence of flaking but do not show the diagnostic features present on flakes. A core is a piece of stone bearing one or more negative (concave) flake scars. A stone which has obviously had flakes and flaked pieces struck from it.

Flakes (with and without retouch) are measured with length extending from the point of force along the percussion axis to the distal end of the flake, Width is measured at right angles to the length and thickness is measured at the intersection of length and width. All measurements were calculated using callipers and recorded to the nearest millimetre (mm).

Raw material refers to the type of stone of the artefact. The following raw materials were recorded within this assemblage:

- Silcrete - silica-rich duricrust identified by the presence of complete granules or even pebbles within the matrix.
- IMSTC – stands for Indurated Mudstone, Silicified Tuff, Chert. Comprises fine grained siliceous stone formed when fine volcanic sediments are silicified by water.
- Quartz – a siliceous fine grained hard stone that has a glassy appearance.
- Quartzite – metamorphosed quartz sandstone with a glassy, granular, sandy appearance.
- Glass – bottle glass reworked by Aboriginal people to create a sharp blade.

2.2 Artefact analysis

A total of 203 Aboriginal objects were collected from 19 out of 72 (26.4%) 0.5 x 0.5m test squares.

Table 1 and Figure 2 below provide a summary of artefact numbers collected from each test square during these excavations. Artefact numbers per trench are useful in determining the intensity of Aboriginal activity in an area (Stening 2020), since higher artefact numbers indicate more intensive use of the landscape. Within this assemblage, artefact numbers per trench range from zero to fifty. The lower numbers indicate areas of the site that were used less intensively by Aboriginal people, while the higher artefact numbers indicate areas that were quite intensively utilised by Aboriginal people.

Area/Transect/Square	No. of artefacts
1.2.8	4
2.2.7	1
2.2.11	1
3.1.5	1

4.1.1	1
4.1.2	2
4.2.8	5
4.2.9	2
4.2.10	1
5.1.1	9
5.1.2	50
5.1.3	1
5.1.4	34
5.1.6	4
5.2.7	31
5.2.8	49
5.2.10	1
5.2.11	1
5.2.12	5
TOTAL	203

Table 1: Showing artefact numbers per test square.

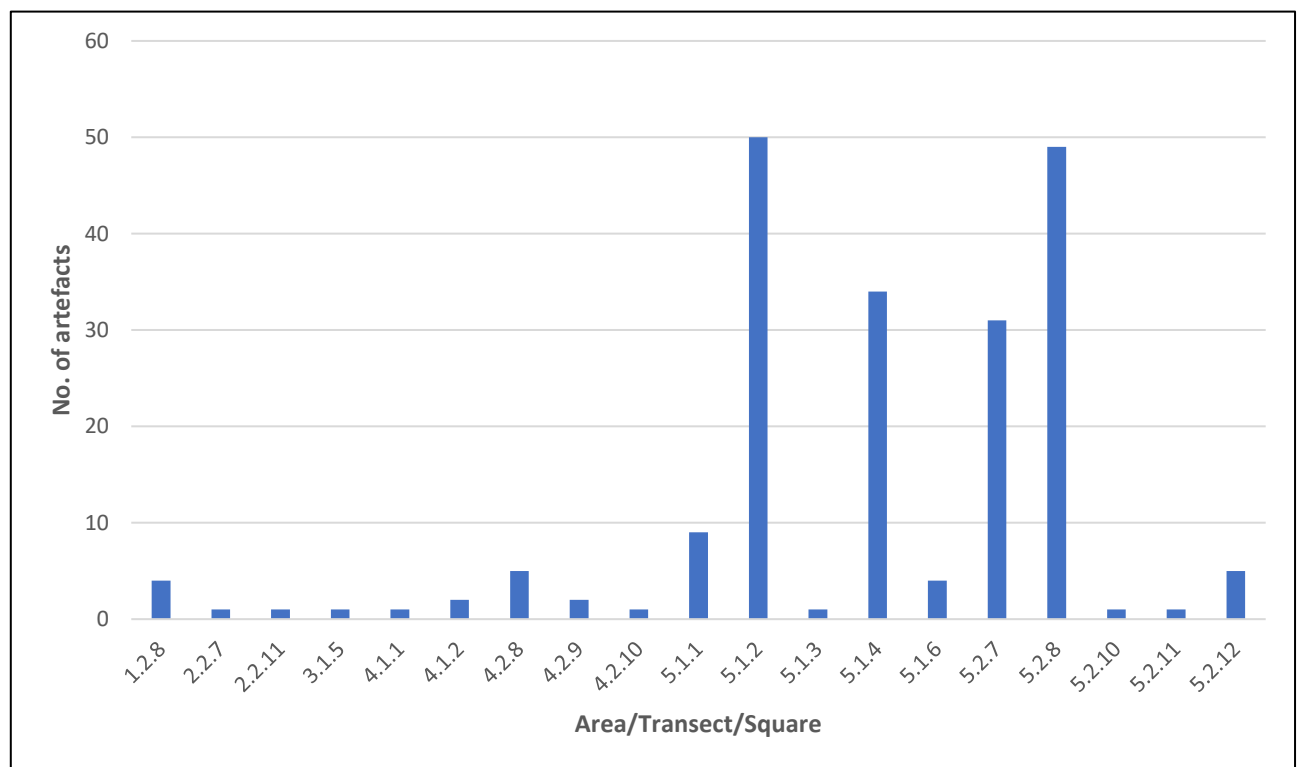


Figure 2: Showing artefact numbers by test square.

Table 2 and Figure 3 below show a representation of artefact type by raw material. The assemblage is comprised of 106 flakes without retouch, five retouched flakes, 78 flaked pieces and 14 cores. The most commonly occurring artefact type is the flake without retouch comprising 52.22% of the total assemblage. The second most commonly occurring type is the flaked piece which comprises 38.42% of the total assemblage; cores make up the third most commonly occurring artefact type comprising 6.9% of the total assemblage; and retouched flakes comprise 2.46% of the assemblage. The five retouched flakes all measure 30mm or less in length and are, according to Gould's (1969: 235) classification, microliths.

Gould's (1969:235) 'Australian small tool tradition' is comprised of adzes. Backed blades, pirri points and thumbnail scrapers. The Bondaian phase of the Eastern Regional Sequence, as described by McCarthy (1967, 67), is characterised by backed blades, burins, fabricators, scrapers and microliths. Gould (1969) describes microliths, five of which are present in the present assemblage, as definitive tools of the small tool tradition. Therefore the presence of several microliths, indicative of the Australian small tool tradition and the Bondaian phase of the Eastern Regional Sequence, indicate that that typologically this assemblage belongs to the Australian small tool tradition and the Bondaian phase of the Eastern Regional Sequence. The Bondaian phase dates no earlier than 7,000 BP (Stening 2020, 29).

IMSTC is the most commonly occurring raw material type making up 66.5% of the assemblage, with silcrete comprising 21.67%, quartz which makes 9.85%, quartzite comprising 1.48% of the total and glass comprising just 0.49% of the total.

Raw material	Core	Flake without retouch	Retouched flake	Flaked piece	TOTAL
Silcrete	2	34	1	7	44
IMSTC	9	67	4	55	135
Quartz	3	3	0	14	20
Quartzite	0	2	0	1	3
Glass	0	0	0	1	1
TOTAL	14	106	5	78	203

Table 2: Showing artefact type by raw material.

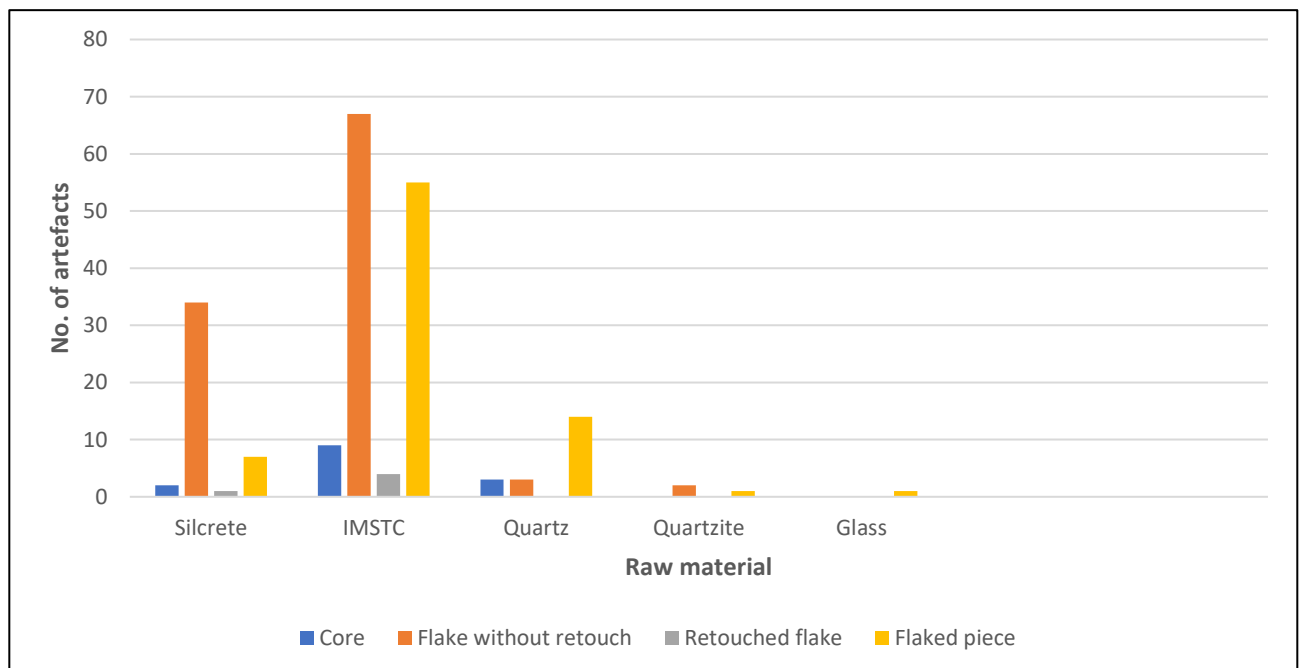


Figure 3: Showing artefact type by raw material.

Analysis of artefact numbers by spit can be used to determine the extent to which bioturbation has affected lateral movement of archaeological artefacts. Two major types of bioturbation affect archaeological deposits: faunalturbation – the movement of burrowing insects and animals, and floralturbation – the action of plant and tree roots. Table 3 and Figure 4 below show that there is a progressive decrease in numbers of artefacts with depth, which indicates that the natural process of bioturbation has had an impact on this site.

Spit	No. of artefacts	Percentage of total assemblage
1	92	45.3%
2	53	26.1%
3	36	17.7%
4	17	8.4%
5	4	2.0%
6	1	0.5%
TOTAL	203	100

Table 3: Artefact numbers by spit

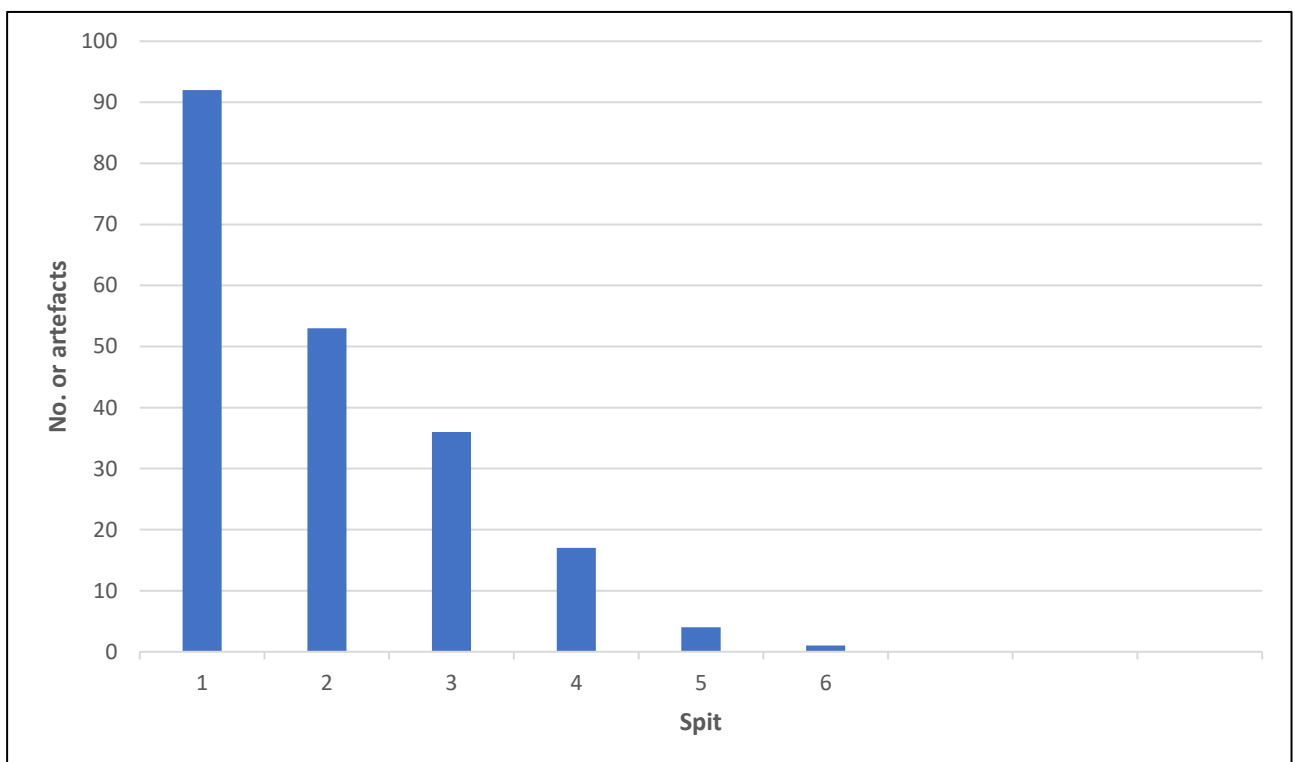


Figure 4: Artefact numbers by spit.

The frequency, range and nature of residential movement within a community of people, known as mobility, can be interpreted by undertaking a comparison of cores to flakes (Stening 2020, 40). Occupation of an area over longer durations by less mobile groups will, according to Dibble (1995), result in the more complete reduction of cores. Therefore, more flakes will be removed from each core, which will in turn increase the flake to core ratio. As demonstrated in Table 4 and Figure 5 below, the assemblage comprises 106 flakes without retouch; five retouched flakes; and 14 cores. The total flake to core ratio is 0.126. Two silcrete cores are present while there are 35 total flakes made of silcrete. Therefore the ratio of silcrete flakes to silcrete cores is 0.057. There are nine IMSTC cores and 71 IMSTC flakes in total. The ratio of IMSTC flakes to IMSTC cores is 0.127. There are three quartz cores and three quartz flakes giving a quartz flake to core ratio of 1. There are no quartzite or glass cores.

The ratio of quartz flakes to cores is low, however, the ratio of silcrete flakes to cores and IMSTC flakes to cores is high, as is the overall total ratio. The higher ratios are indicative of less complete reduction of cores, which according to Dibble's (1995) hypothesis, suggests that the site was occupied for shorter periods of time by more mobile groups of people.

	Silcrete	IMSTC	Quartz	Quartzite	Glass	TOTAL
Core	2	9	3	0	0	14
Flake without retouch	34	67	3	2	0	106
Retouched flake	1	4	0	0	0	5
TOTAL	37	80	6	2	0	125

Table 4: Cores and flakes by raw material.

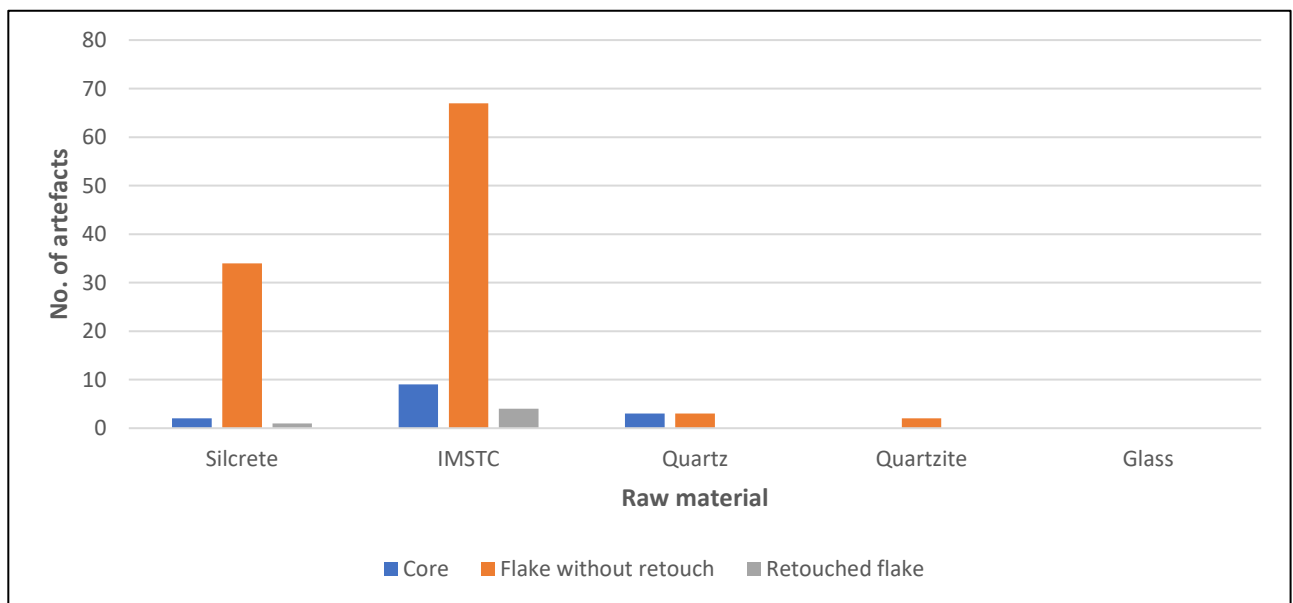


Figure 5: Cores and flakes by raw material.

An analysis of mean and maximum artefact lengths can provide information about site integrity (Stening 2020, 51). Table 5 and Figure 6 below indicate that the maximum artefact length varies from 21mm to 51mm, while the mean artefact length varies between 14.25 and 16.08mm. Table 5 and Figure 5 indicate that there is a consistency of mean artefact lengths and maximum artefact length decreases with depth. This indicates that the archaeological deposit has likely been impacted by bioturbation, which has resulted in the downward movement of artefacts.

Spit	Mean length (mm)	Maximum length (mm)	No. of samples
1	15.32609	51	92
2	15.32075	35	53
3	16.08333	34	36
4	15.82353	33	17
5	14.25	23	4
6	21	21	1

Table 5: Maximum and mean artefact lengths by spit.

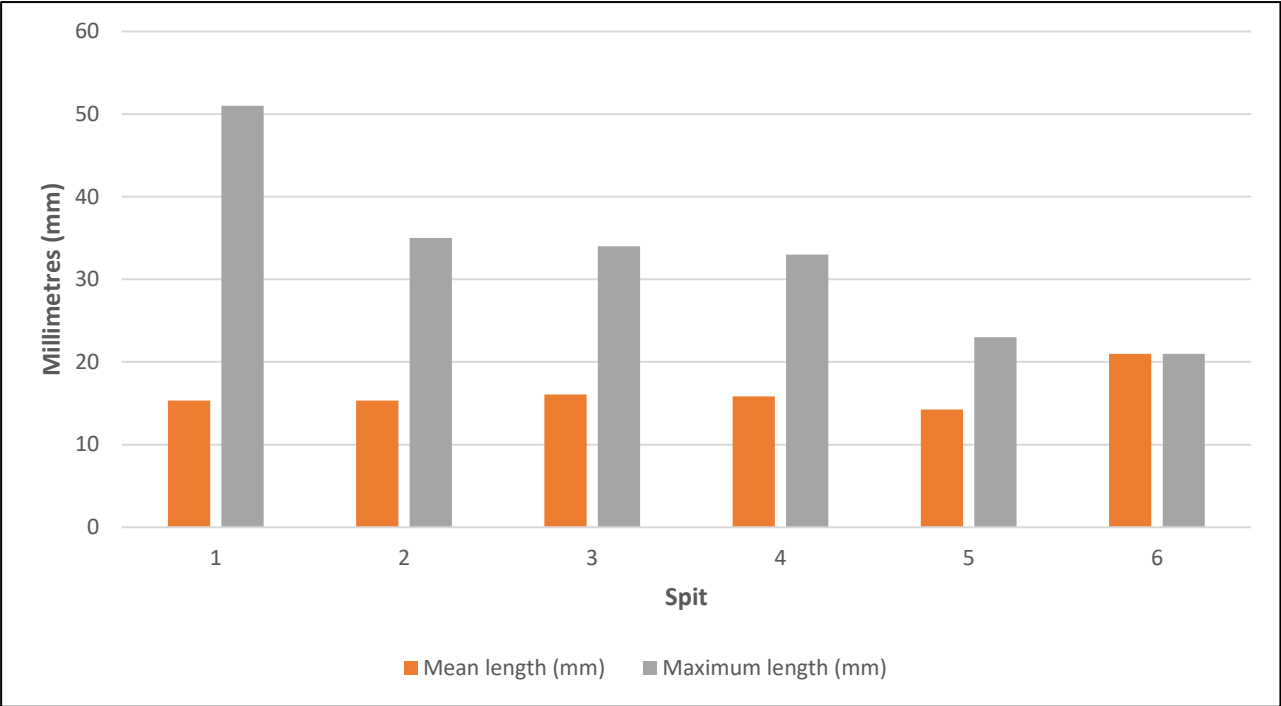


Figure 6: Showing maximum and mean artefact lengths by spit.

The amount of the external weathered exterior of a raw material, known as the cortex, present on an artefact is indicative of the reduction stage for tools (Andrefsky 2005: 103). It is generally accepted that people would not have carried around large cobbles for flaking long distances before reduction took place and that the first flakes removed would have significantly more cortex on their dorsal surface than those knapped later (Holdaway, Shiner, and Fanning 2004: 50). For the purposes of this analysis glass artefacts have been recorded as not having cortex. The exterior surface of the glass bottle that was used for the production of these tools is present on the single glass artefact in this assemblage. However, it is anticipated that recording this as cortex would skew the results considerably and therefore, glass artefacts have been recorded as not having cortex.

Analysis of this assemblage, as shown in Table 6 and Figure 7, demonstrated that cortex was visible on 42 of the 203 (20.69%) artefacts. The low incidence of cortex within this assemblage indicates that a local source of stone may not have been used in the production of small tools at this site.

Raw material	No cortex	Cortex	TOTAL
Silcrete	27	37	44
IMSTC	111	24	135
Quartz	19	1	20
Quartzite	3	0	3
Glass	1	0	1
TOTAL	161	42	203

Table 6: Presence of cortex by raw material.

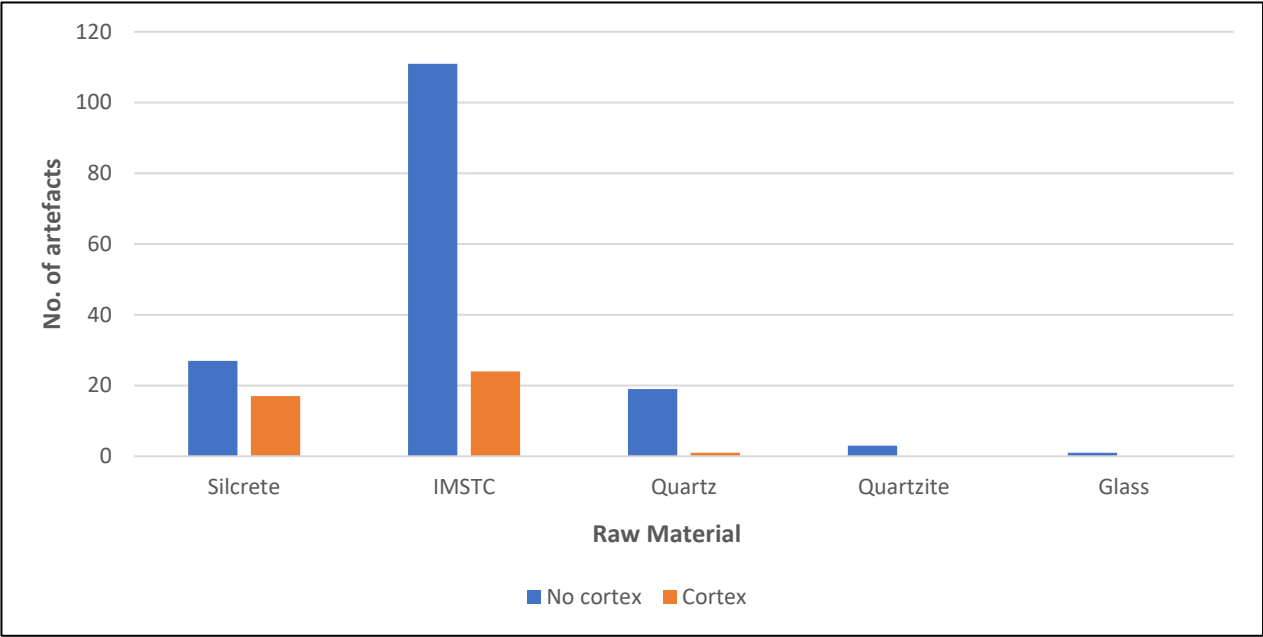


Figure 7: Showing the presence of cortex by raw material.

RAW MATERIAL	PERCENTAGE OF CORTEX VISIBLE					TOTAL
	0%	1-25%	26-50%	51-75%	76-100%	
Silcrete	27	6	11	0	0	44
IMSTC	111	17	7	0	0	135
Quartz	19	0	1	0	0	20
Quartzite	3	0	0	0	0	3
Glass	1	0	0	0	0	1
TOTAL	161	23	19	0	0	203

Table 7: Percentage of cortex by raw material.

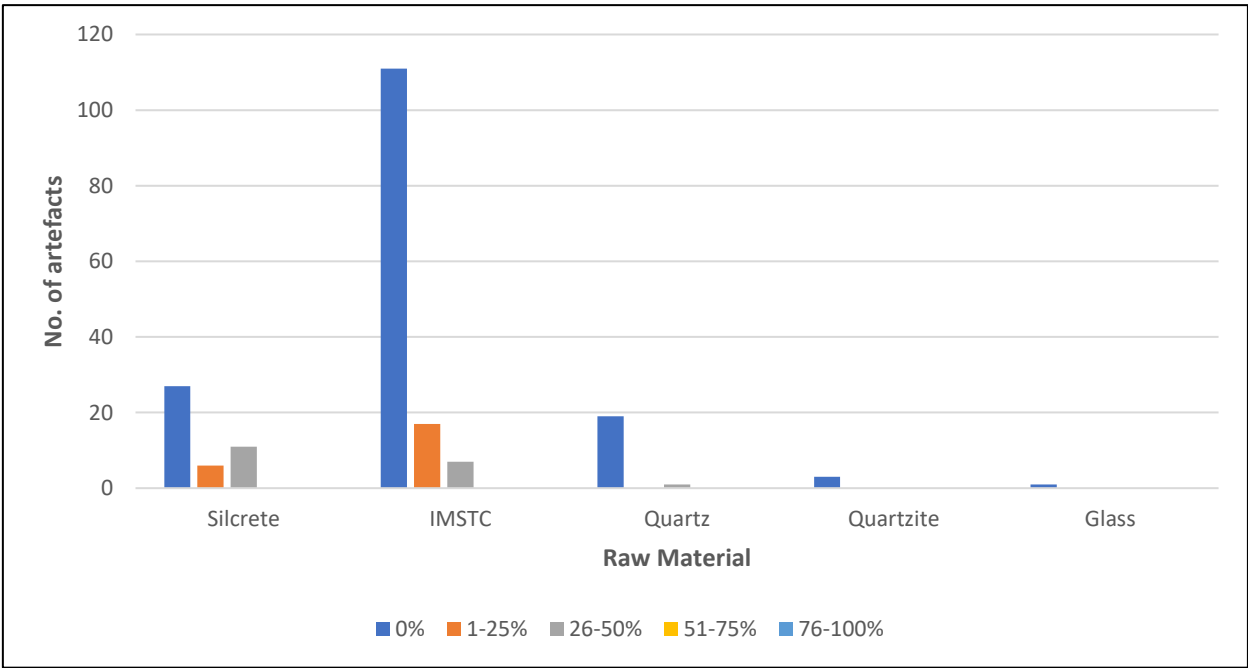


Figure 8: Showing percentage of cortex by raw material.

The amount of cortex remaining on a core can be used as an indicator of reduction intensity, that is, the measure of production and productivity resulting from the use of resources to support social organisation (Lourandos 1983: 389). The more complex the social organisation, the more people to support, and therefore, the more intensive reduction of resources, and, more flakes will be produced per core and the production of cortical surfaces on the core will decrease (Dibble 1995). There are within this assemblage a total of 14 cores: six cores with cortex and eight cores without cortex. One of those 14 (7.14%) cores has more than 50% cortex; three of 14 (21.43%) cores have between 26-50% cortex; two of the 14 (14.29%) have between 1-25% cortex coverage; and eight of 14 (57.14%) have no cortical coverage. The low incidence of cortex on cores indicates that primary reduction of stone was taking place elsewhere.

	Silcrete	IMSTC	Quartz	Quartzite	Glass	TOTAL
Cores with cortex	1	5	0	0	0	6
Cores without cortex	1	4	3	0	0	8
TOTAL	2	9	3	0	0	14

Table 8: Cores by cortex

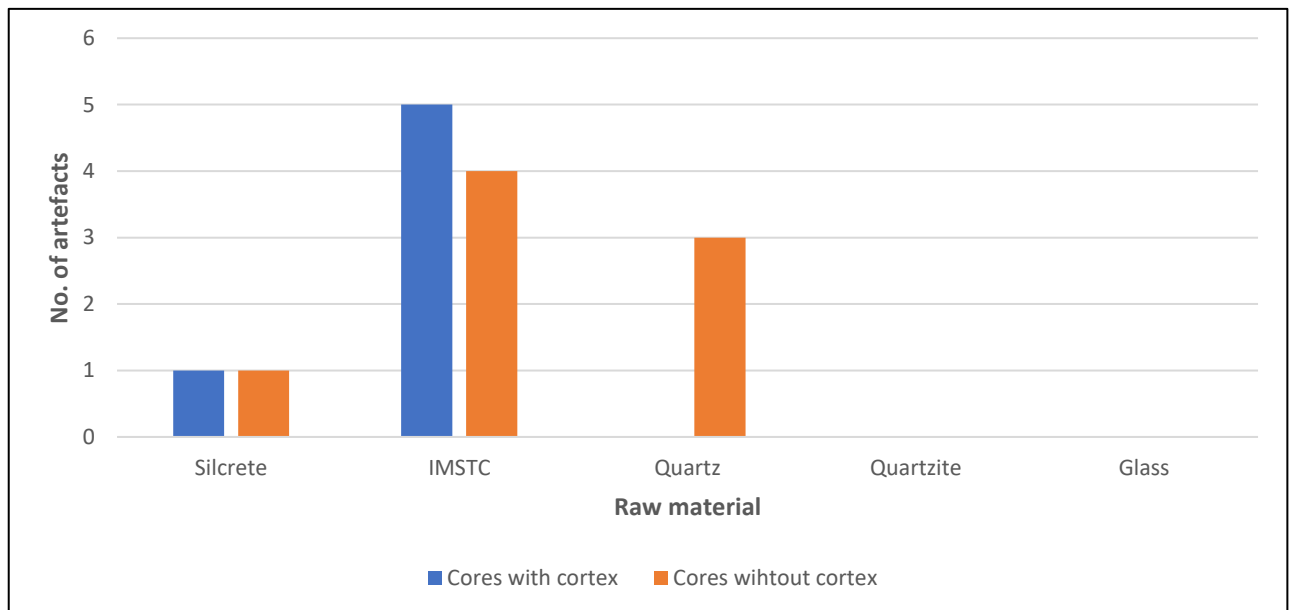


Figure 9: Cores by cortex.

RAW MATERIAL	PERCENTAGE OF CORTEX VISIBLE ON CORES					TOTAL
	0%	1-25%	26-50%	51-75%	76-100%	
Silcrete	1	0	1	0	0	2
IMSTC	4	2	2	1	0	9
Quartz	3	0	0	0	0	3
Quartzite	0	0	0	0	0	0
Glass	0	0	0	0	0	0
TOTAL	8	2	3	1	0	14

Table 9: Percentage of cortex visible on cores.

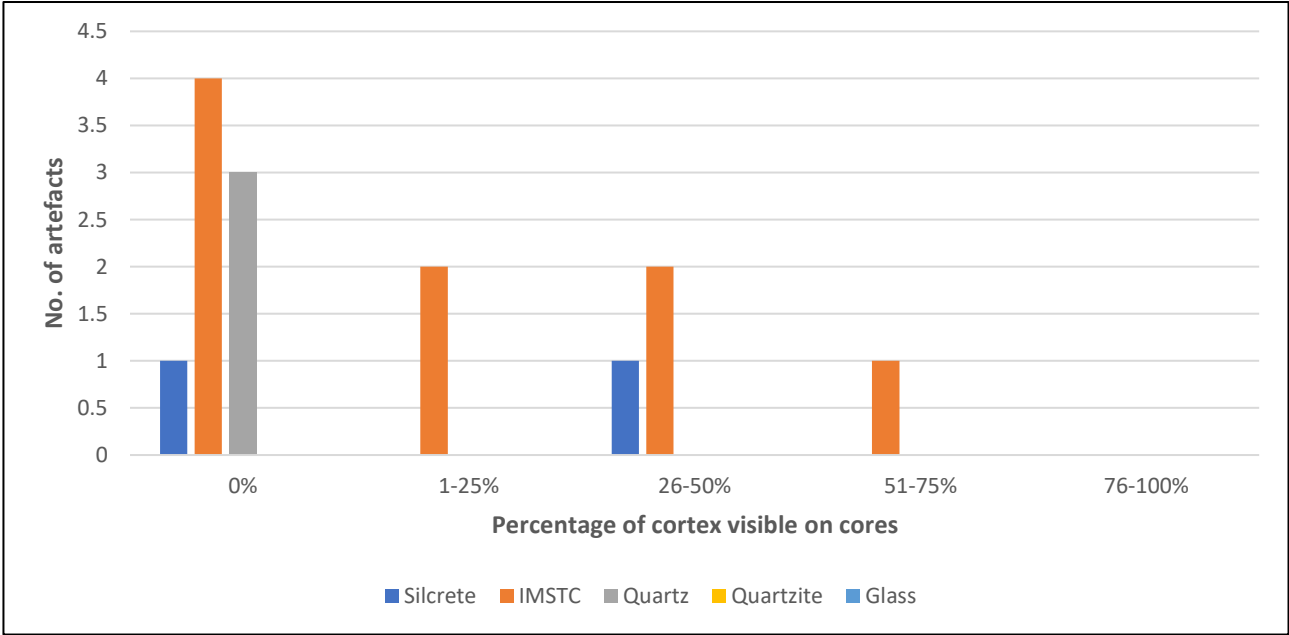


Figure 10: Percentage of cortex visible on cores.

It is accepted that the more a core is reduced, the smaller the flakes will generally be and therefore flake size can be used as an indicator of reduction intensity (Holdaway, Shiner, and Fanning 2004: 50). Figure 11, Figure 12 and Figure 13 show that the flakes and flaked pieces in this assemblage are generally small. There are only four out of 106 (3.78%) flakes without retouch; four of 78 (5.12%) flaked pieces; and none of the five (0%) retouched flakes with a dimension greater than 30mm. This is indicative of a later reduction stage and therefore a larger reduction intensity. This higher reduction intensity may, according to Dibble's (1995) model, be indicative of a less mobile people inhabiting the site for longer periods of time.

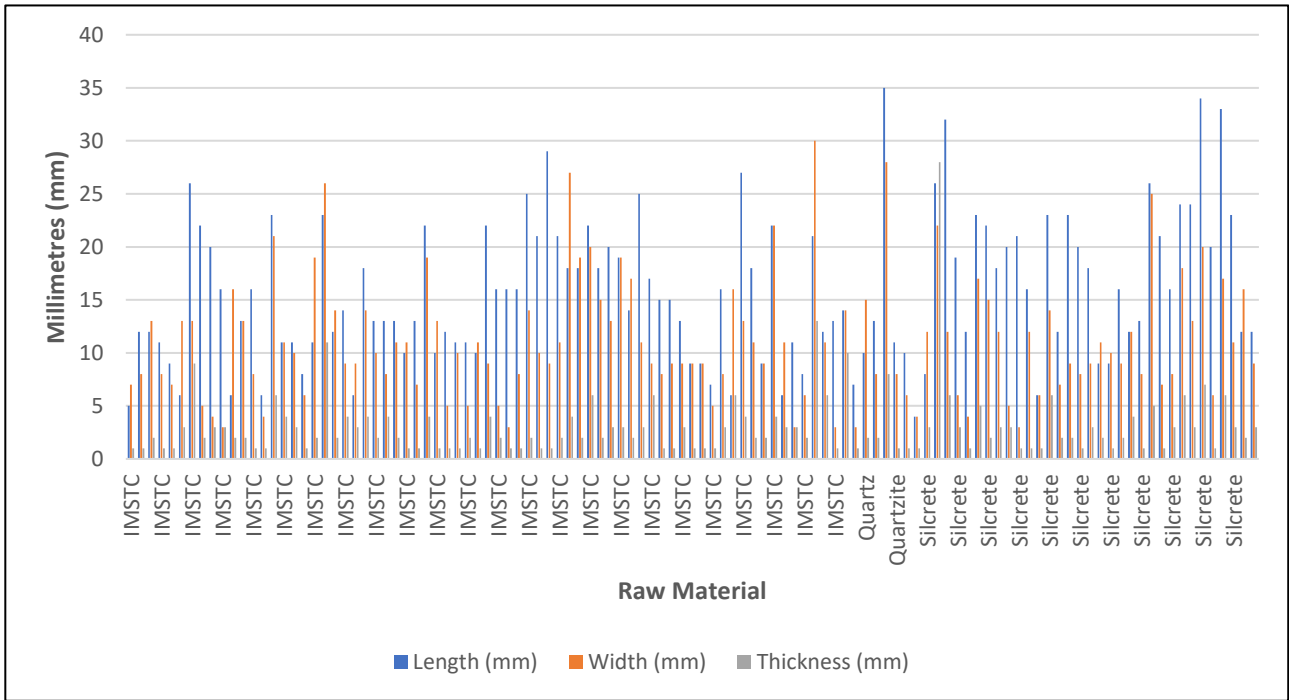


Figure 11: Flake size.

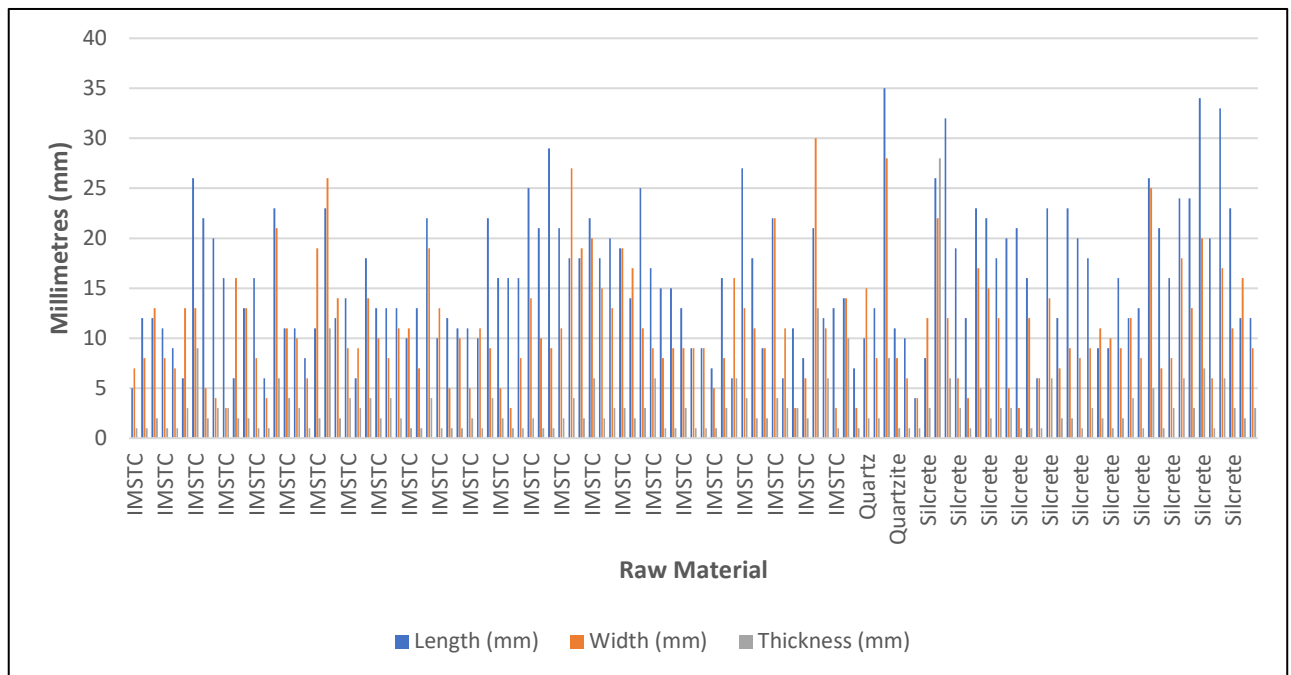


Figure 12: Flaked piece size.

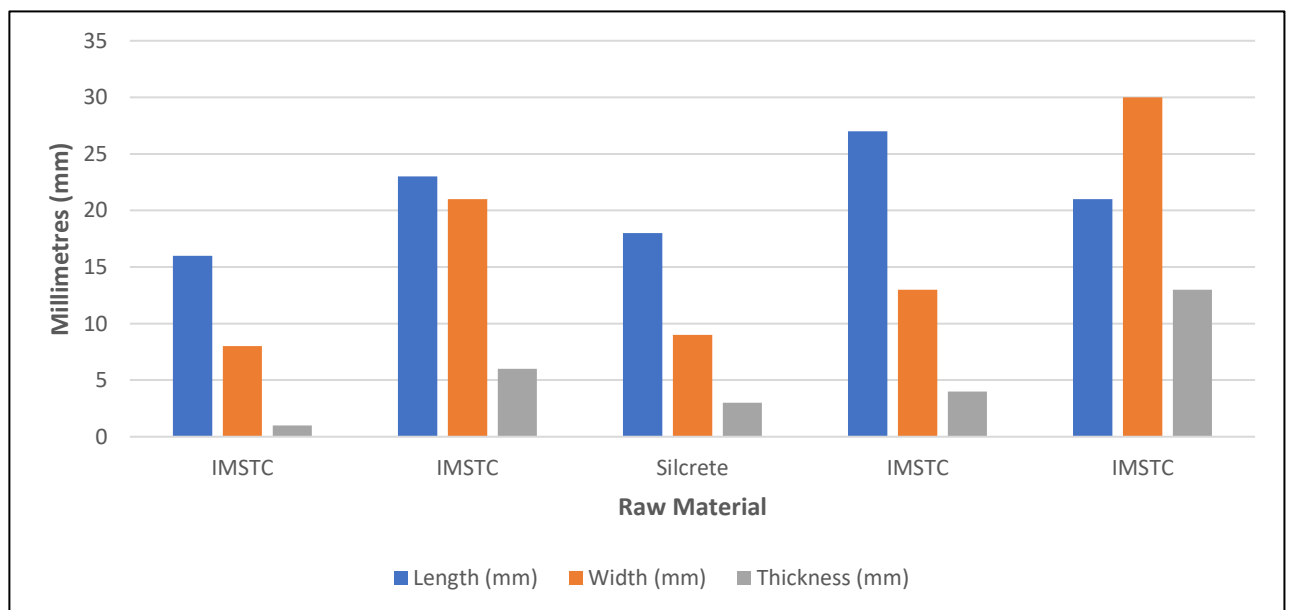


Figure 13: Retouched flake size.

The present assemblage comprises three different initiation types for flakes: bending, bipolar and conchoidal. There are two initiation types for flakes within this assemblage, bending and conchoidal. The most commonly occurring initiation type is conchoidal representing 55 of the 111 (49.55%) flakes (with and without retouch). Bending initiations comprise 52 of 111 (46.85%) flakes (with and without retouch). Bipolar initiations represented 4 of 111 (3.6%) flakes (with and without retouch). Conchoidal flakes are the most common initiation type in Australian assemblages, which is supported by the present assemblage.

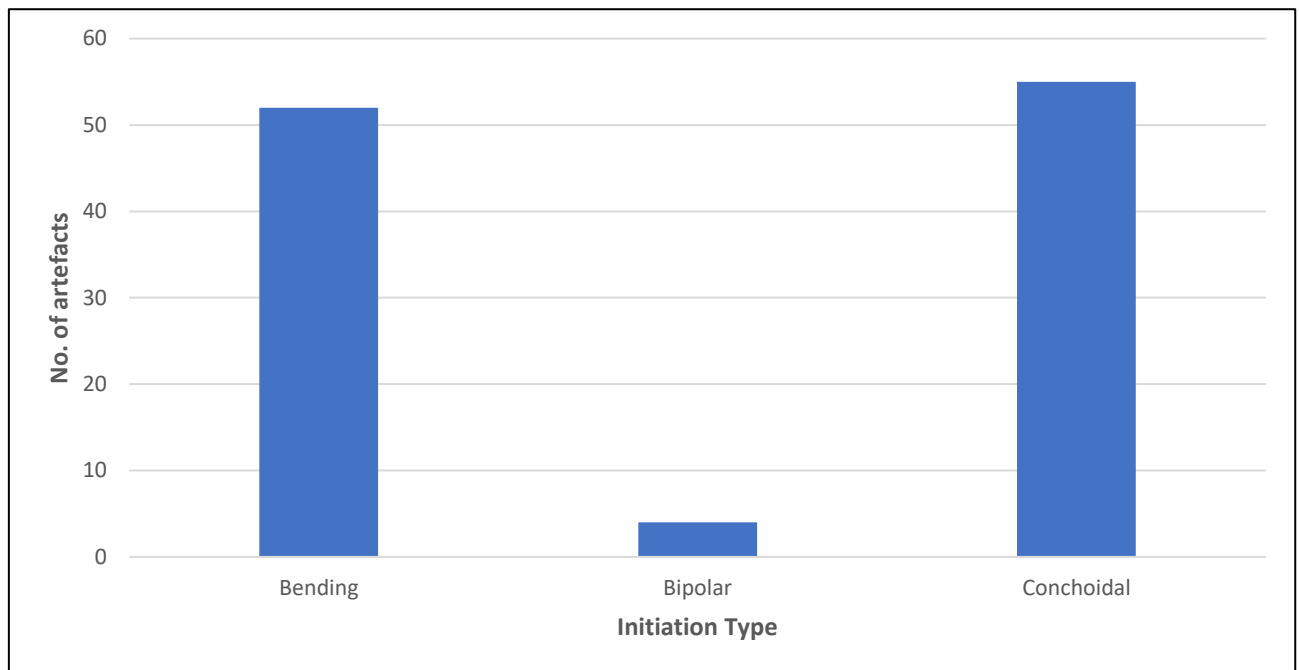


Figure 14: Initiation types.

Figure 15 below shows that flat platforms are the most commonly occurring platform within this assemblage, comprising 74 of 111 (66.67%) flakes (with and without retouch). Abraded platforms comprise the second most commonly occurring platform with 30 of 111 (27.03%) of flakes (with and without retouch); followed by cortical platforms comprising 6 of 111 (5.41%) of flakes; and lastly complex platforms comprising one of 111 (0.9%) of flakes. The presence of only one cortical platform within this assemblage is indicative of the late reduction stage which has been demonstrated throughout this analysis. Andrefsky (2005:96) suggests that small flakes with flat platforms could suggest that these flakes had been removed from a flake blank or from a larger flake. The presence of many abraded platforms is indicative of people taking more care in the production of the flake (Andrefsky 2005:97).

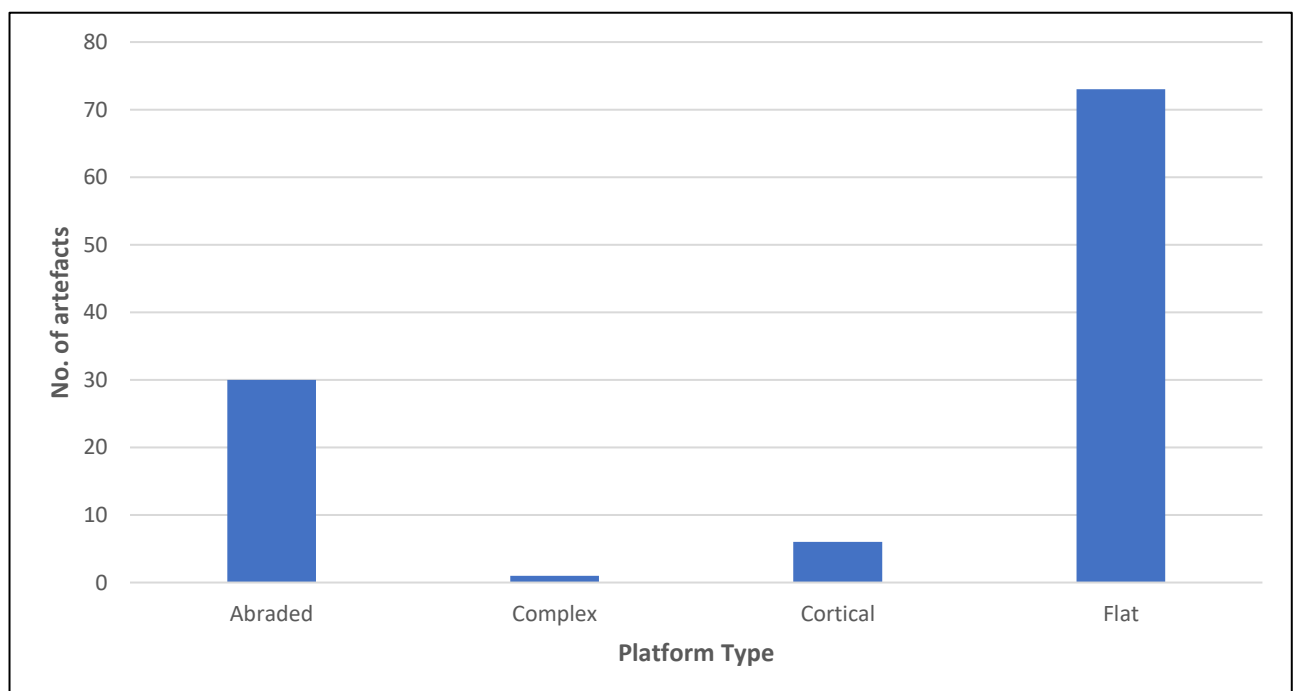


Figure 15: Platform types.

The flakes in the assemblage comprise feather, step (outré passe) and hinge terminations as shown in Figure 16 below. There are also broken flakes within the assemblage whose termination could not be determined. Step or outré passe terminations comprise 62 of 111 (55.86%) flakes (with and without retouch) in this assemblage; broken flakes represent 25 of 111 (22.52%) of flakes (with and without retouch); hinge terminations comprise 18 of 111 (16.22%) flakes; while feather terminations represent six of 111 (5.41%) flakes within the assemblage. Step or outré passe terminations are indicative of the force of impact rolling toward the core (Andrefsky 2005:87); hinge terminations are indicative of the force of impact rolling away from the core (Andrefsky 2005:87); while feather terminations are indicative of a smooth termination that gradually shears the flake from the core and indicates that an outwards or normal direction of force was applied to platforms for all raw materials. Step, hinge and feather terminations are indicative of complete, not broken, flakes.

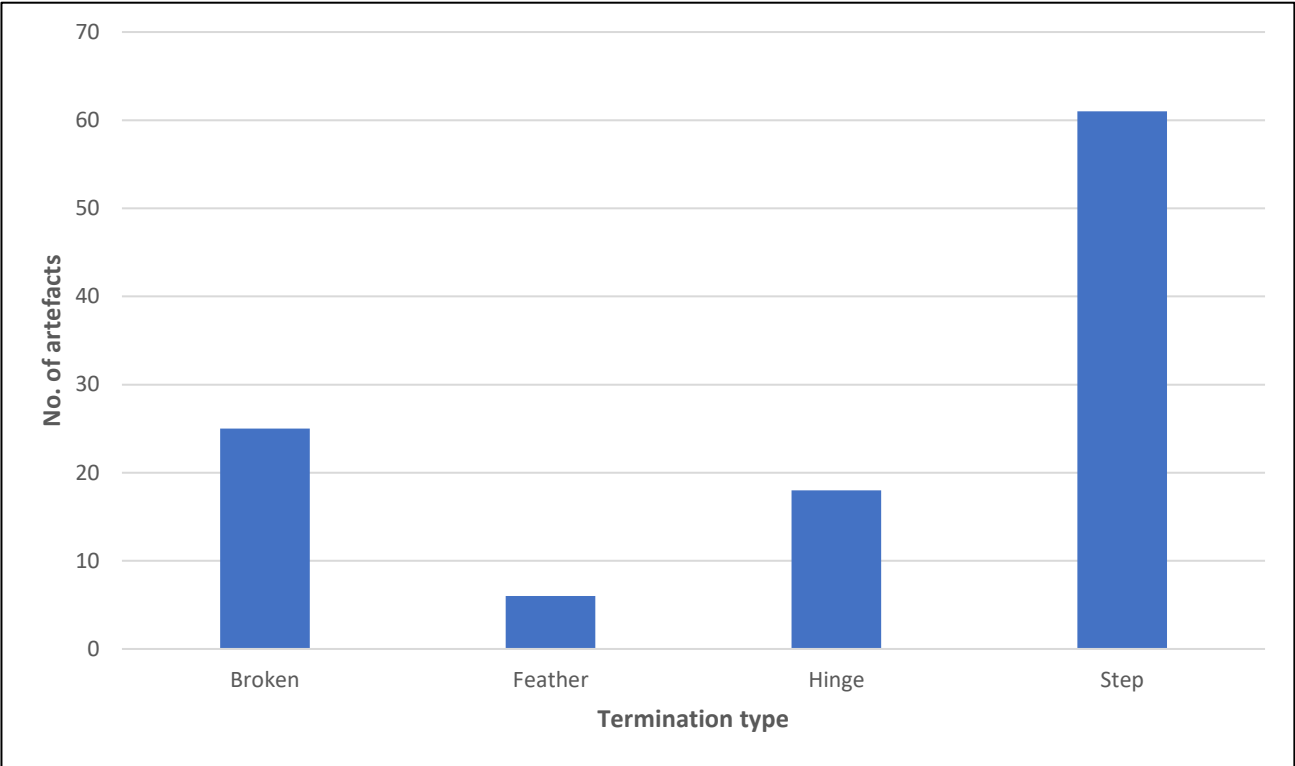


Figure 16: Termination types.

Archaeologists recognise that raw materials were intentionally being heated in order to improve flakeability, produce longer flakes and sharper edges by prehistoric tool makers (Domanski & Webb 1992: 601). Although no evidence of hearths was observed during the excavations, analysis of the recovered assemblage revealed that nine of the 203 (4.43%) artefacts had been subjected to heat treatment. Table 10 and Table 11 and Figure 17 Figure 18 below show that IMSTC was the most commonly heat treated material, representing 88.89% of heat treated materials. One (11.11% of total treat heated artefacts) silcrete artefact was identified as heat treated. Of the total numbers of artefacts, heat treated artefacts comprised eight of 135 (5.92%) IMSTC artefacts; and one of 44 (2.27%) silcrete artefacts. There were no heat treated quartz, quartzite or glass artefacts. Flakes without retouch and flaked pieces are the only artefact types comprising heat treated artefacts, with six of 106 (5.665) flakes without retouch being heat treated while three of 75 flaked pieces (4%) are heat treated.

Raw material	Heat Treated	Not heat treated	TOTAL
--------------	--------------	------------------	-------

Silcrete	1	43	44
IMSTC	8	127	135
Quartz	0	20	20
Quartzite	0	3	4
Glass	0	1	1
TOTAL	9	194	203

Table 10: Showing heat treated artefacts by raw material.

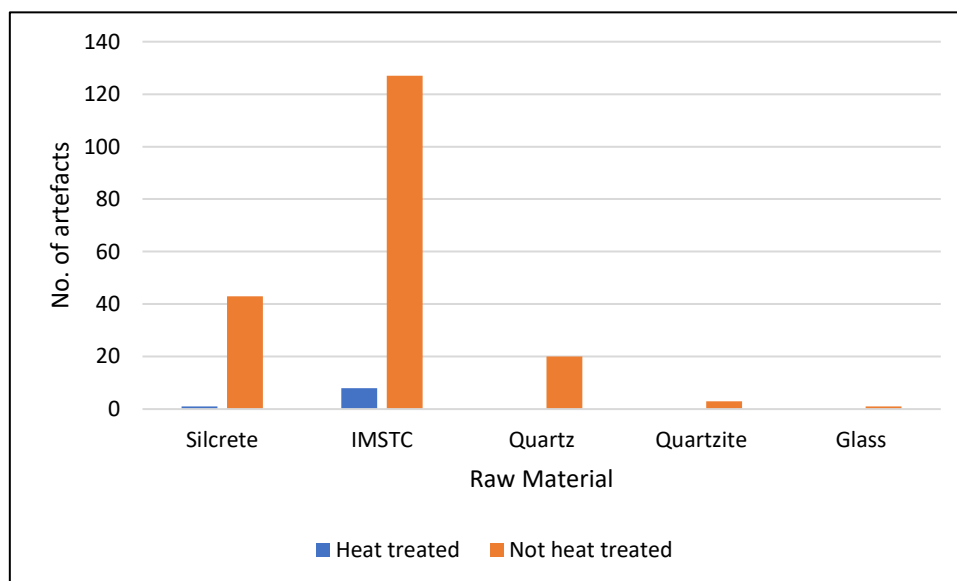


Figure 17: Showing heat treated artefact by raw material

Artefact type	Heat Treated	Not heat treated	TOTAL
Core	0	14	14
Flake (without retouch)	6	100	106
Retouched flake	0	5	5
Flaked piece	3	75	78
TOTAL	9	194	203

Table 11: Showing heat treated artefacts by artefact type.

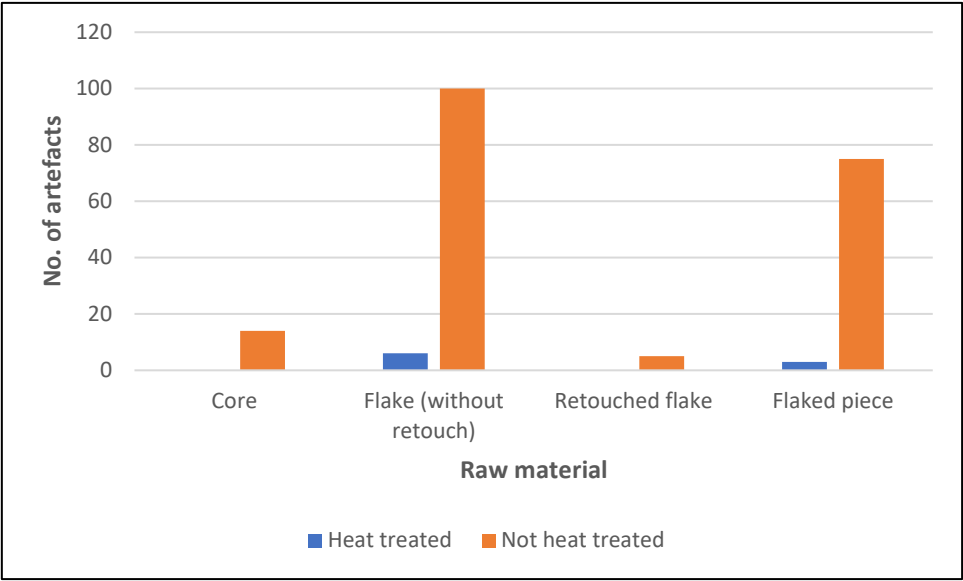
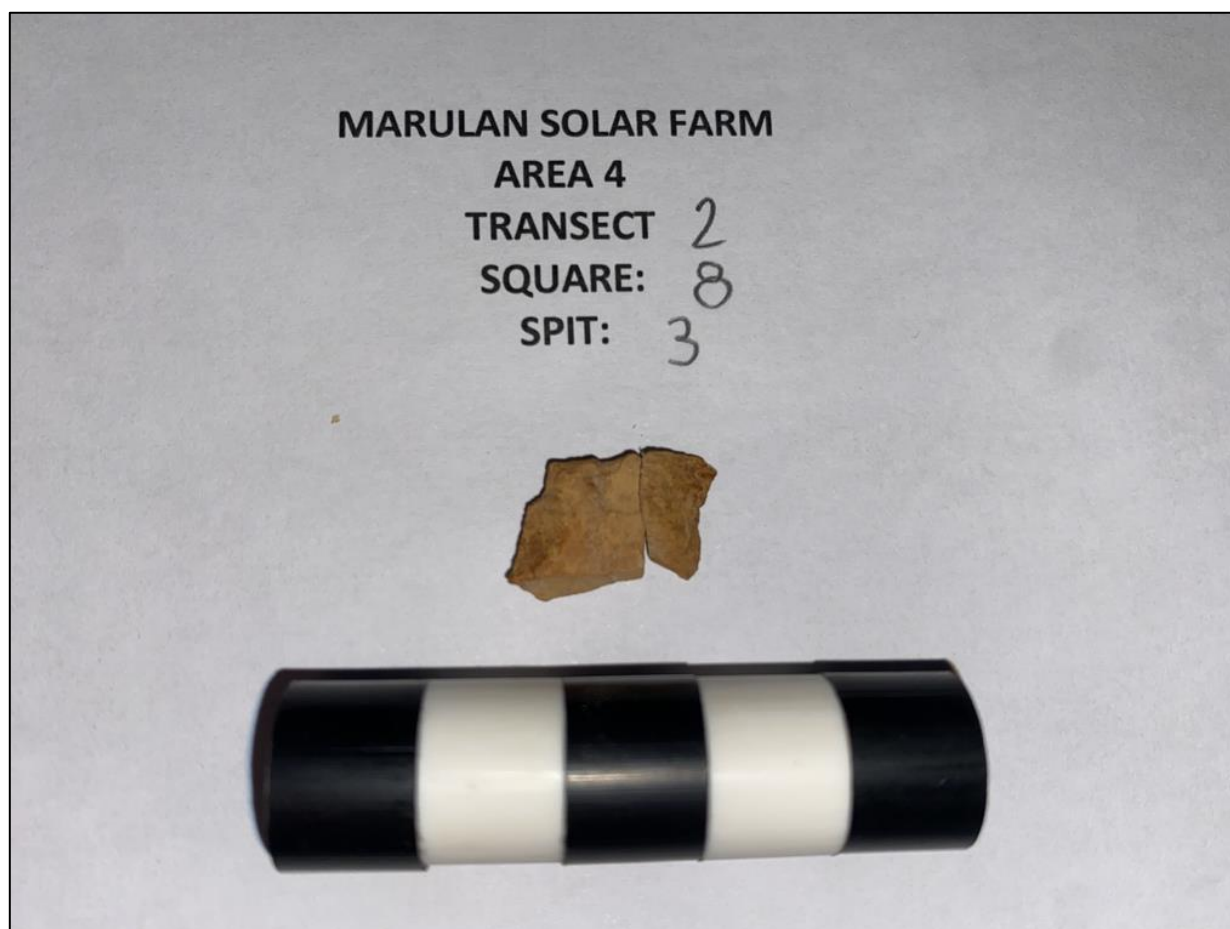


Figure 18: Showing heat treated artefacts by artefact type.

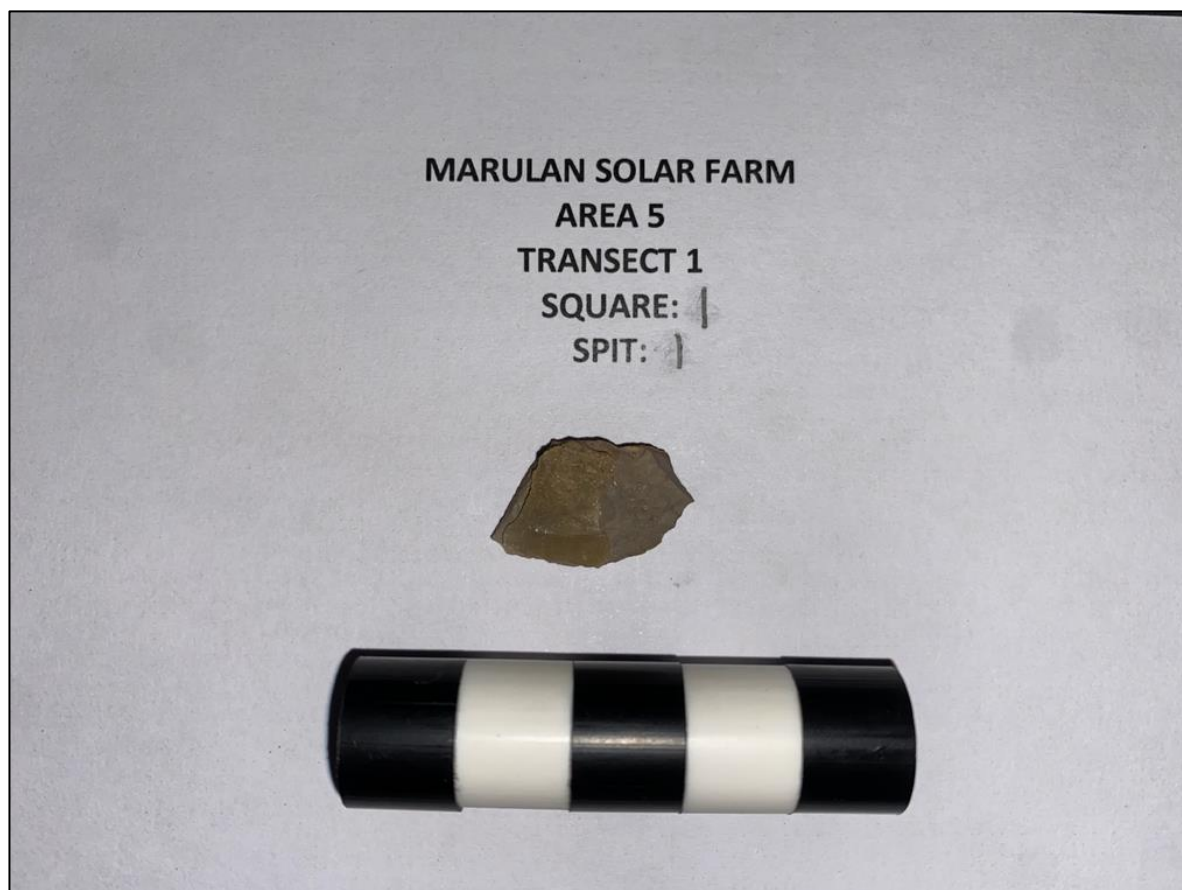
A series of conjoin sets – artefact that can be physically fitted back together – were present in this assemblage. Analysis of conjoin sets can be used to examine vertical displacement of artefacts (Hiscock 1986) or to provide evidence for specific cultural activities (Richardson 2010:38). Table 12 below shows that there are 5 conjoin sets within the assemblage. Each of these conjoin sets was located in the same square and same spit indicating that bioturbation may not have had a significant impact on these areas of the site. However it should be noted that Conjoin Set 1 and Conjoin Set 5 were both new breaks, with the artefacts likely broken during excavation. Conjoin Sets 2, 3 and 4 comprise larger artefacts with the artefacts measuring between 13 and 51mm. Therefore, it is possible that bioturbation was having an impact on these areas of the site, however the larger size of these artefacts may have resulted in a lack of vertical displacement with smaller artefacts moving through the strata.

Conjoin set number	ID	Location	Artefact type	Raw material	Conjoins with
1	14	Area 4 Transect 2 Square 8 Spit 3	Flake	IMSTC	15
	15		Flake		14
2	19	Area 5 Transect 1 Square 1 Spit 1	Flake	IMSTC	20
	20		Flake		19
3	28	Area 5 Transect 1 Square 2 Spit 1	Core	IMSTC	29
	29		Flake		28
4	79	Area 5 Transect 1 Square 4 Spit 1	Core	IMSTC	81
	81		Flaked piece		79
5	115	Area 5 Transect 1 Square 6 Spit 2	Flaked piece	Quartz	116
	116		Flake		115

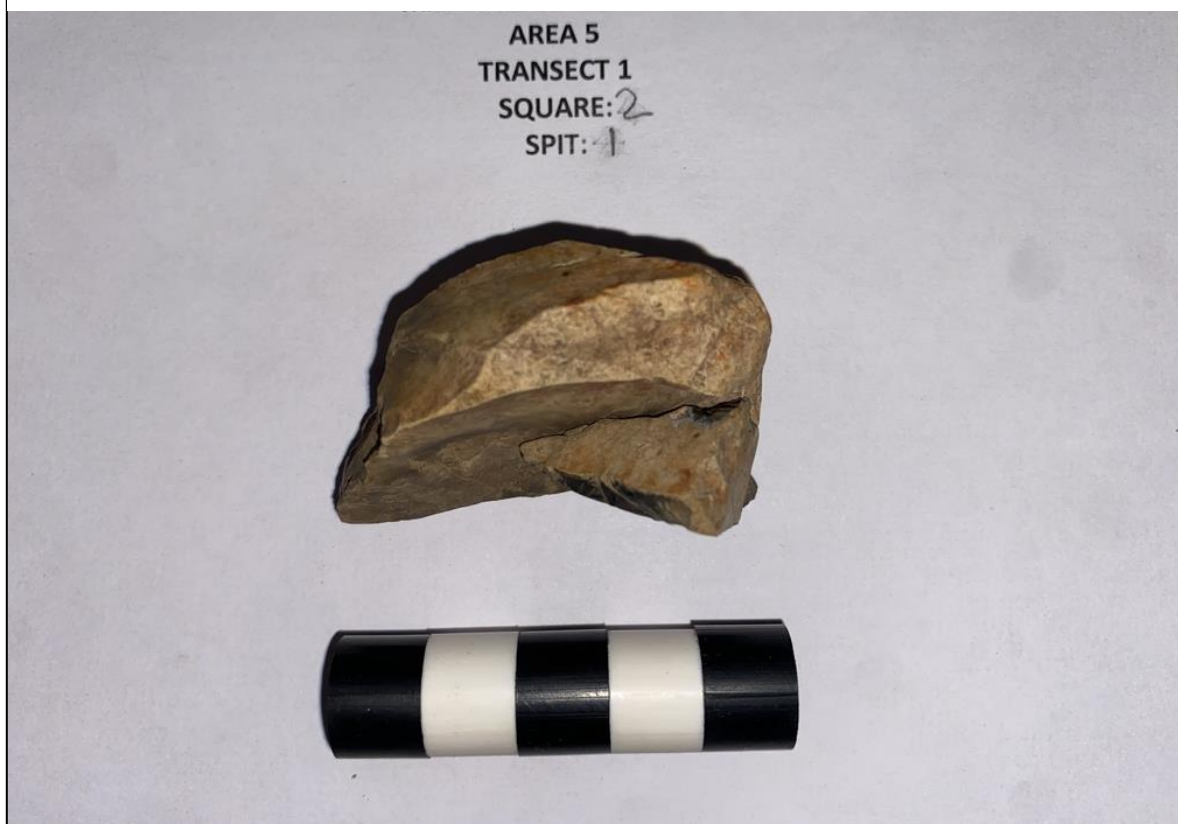
Table 12: Conjoin sets



Photograph 1: Conjoin set 1.



Photograph 2: Conjoin set 2.



Photograph 3: Conjoin Set 3.



Photograph 4: Conjoin set 4



Photograph 5: Conjoin set 5.

3.0 Results

The analysis of the assemblage collected during these test excavations at Marulan Solar Farm indicate that the area was being occupied by Aboriginal people within the last 7,000 years. Test excavation areas 4 and 5 revealed the highest artefact numbers per trench and demonstrated that Aboriginal people were intensively using these areas of the site. Areas 4 and 5 are located closer to Narambulla Creek than Areas 1, 2, 3 and 6. Aboriginal artefacts were predominantly collected from the top soil and the underlying sandy loam within the upper 15cm of the soil profile.

The presence of several microliths within the assemblage places it within the Australian small tool tradition and the Bondaian phase of the Eastern Regional sequence. The presence of a single possible worked glass piece indicates that Aboriginal people may have been occupying the site in the post contact period. Flakes (without retouch) were the most commonly occurring artefact type, with retouched flakes, flaked pieces and cores also being represented.

The most commonly occurring raw material within this assemblage was IMSTC some of which may be derived on site from the siltstone of the Ordovician and early Silurian sediments in the south western portion of the study area. Quartzite is also present in this geological formation, likely accounting for the presence of quartzite in the assemblage. However, silcrete which is the second most commonly occurring raw material does not appear to occur naturally on site and has therefore likely been brought in for use. The low incidence of cortex within this assemblage indicates that a local source of stone may not have been used in the production of small tools at this site, supporting that raw materials are likely to have been brought to site for the production of small tools.

Analysis of artefact numbers by spit and mean and maximum artefact lengths indicates that bioturbation was having an impact on the archaeological deposit. The analysis of conjoin sets does not support the vertical displacement of artefacts, however, the size of the artefacts within the relevant conjoin sets indicates that these artefacts may not have been displaced due to their size.

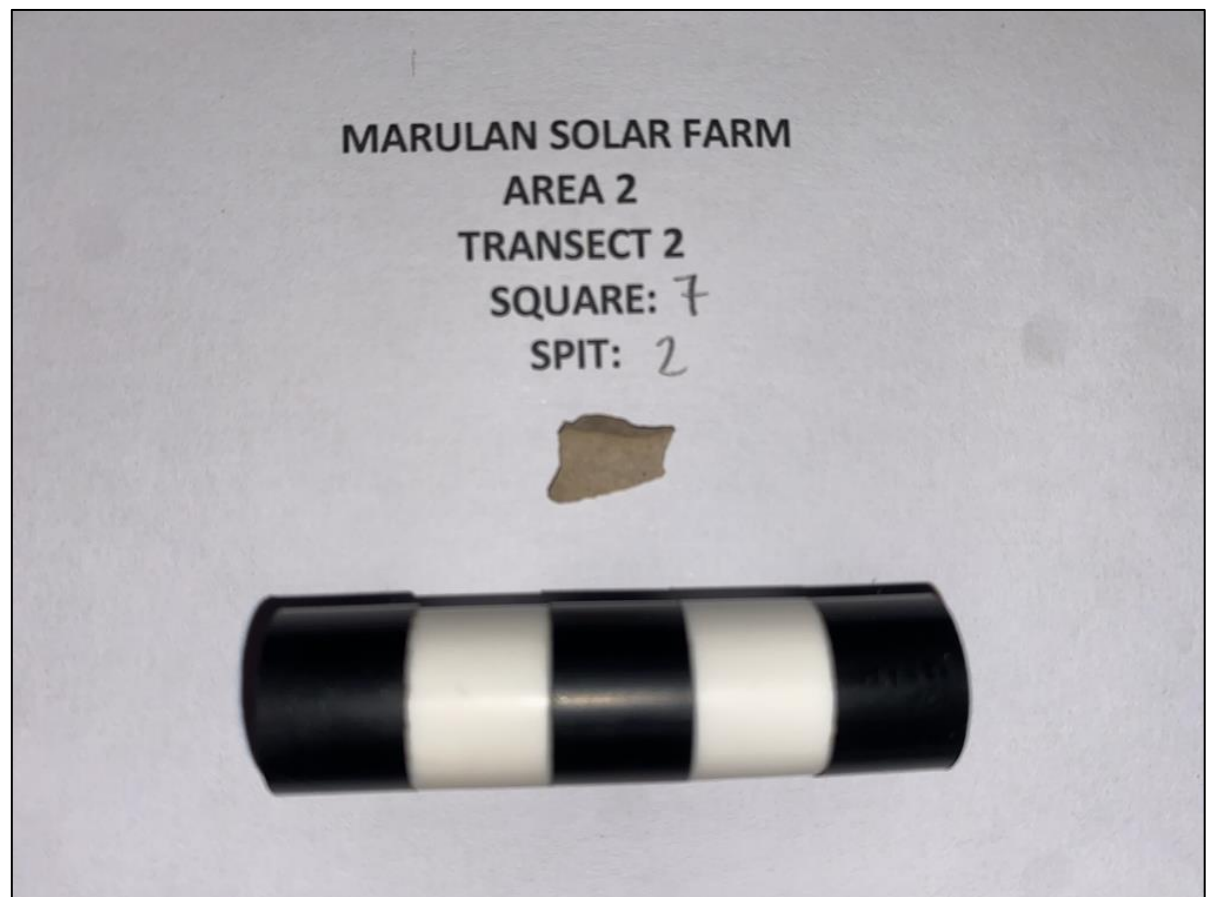
The low incidence of cortex on cores indicates that primary reduction of stone was taking place elsewhere, which is supported by the fact that raw materials were likely being transported to the site. The small size of the flakes and flaked pieces which is indicative of a later reduction stage and therefore a larger reduction intensity and likely demonstrates a less mobile people inhabiting the site for longer periods of time. However, the ratio of flakes to cores suggests that the site was being occupied for shorter periods of time by more mobile groups of people, but the ratios may be skewed if primary reduction was taking place elsewhere and smaller pieces of stone were being transported to the site. The presence of abraded platforms within the assemblage is indicative of people taking more care in the production of small tools which is likely a result of raw materials being transported to site and a larger, less mobile community occupying the site. No residue or use wear analysis has been undertaken to date which would assist in determining exactly what activities were taking place on site.

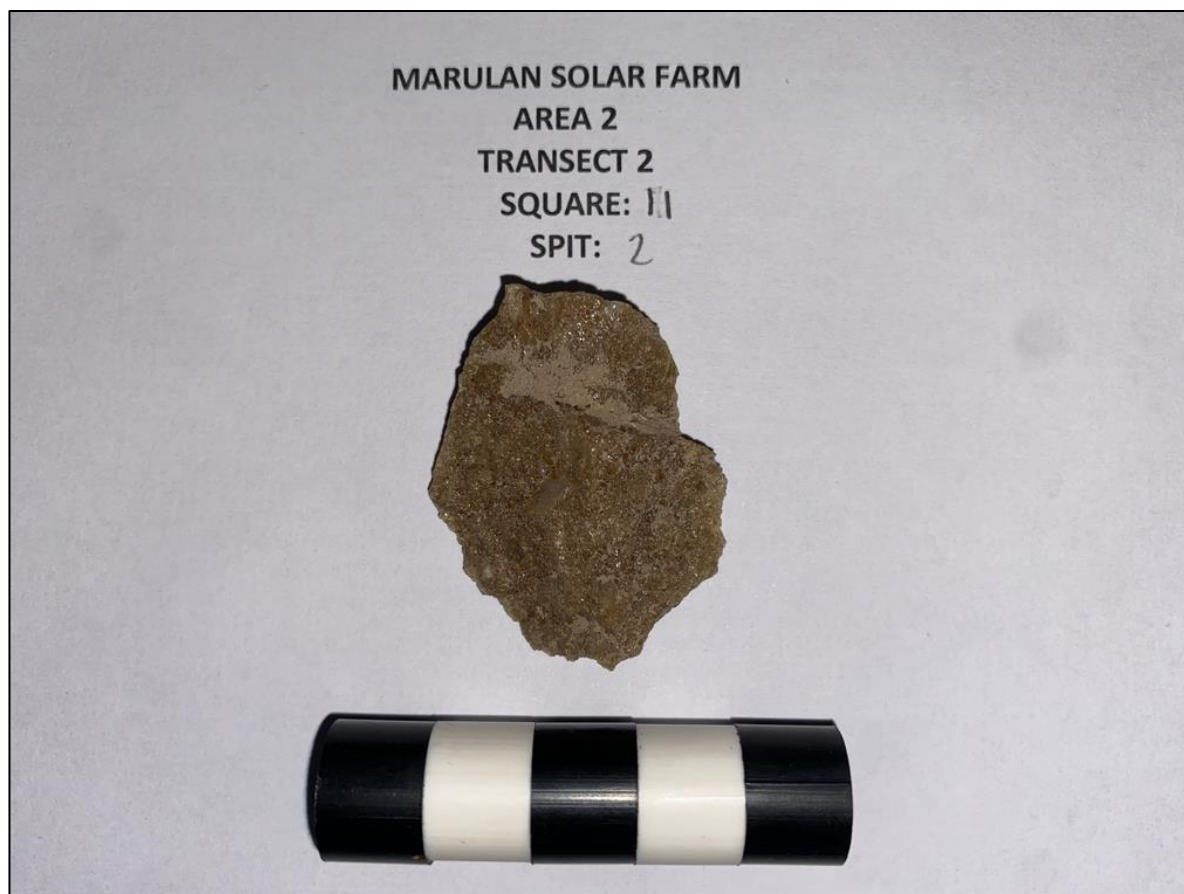
The artefact analysis indicates that larger more complex groups of Aboriginal people were camping near Narambulla Creek and occupying the area for longer periods of time. The surrounding study area was likely swampy and it is possible that this area along Narambulla Creek was the driest portion of the study area. The creeks and swamps would have provided fresh water and floral and faunal resources. Some raw materials may have been present within the study area with other raw materials being transported to site for the manufacture of small tools. Bioturbation has had some impact on the vertical displacement of smaller artefacts within the archaeological record.

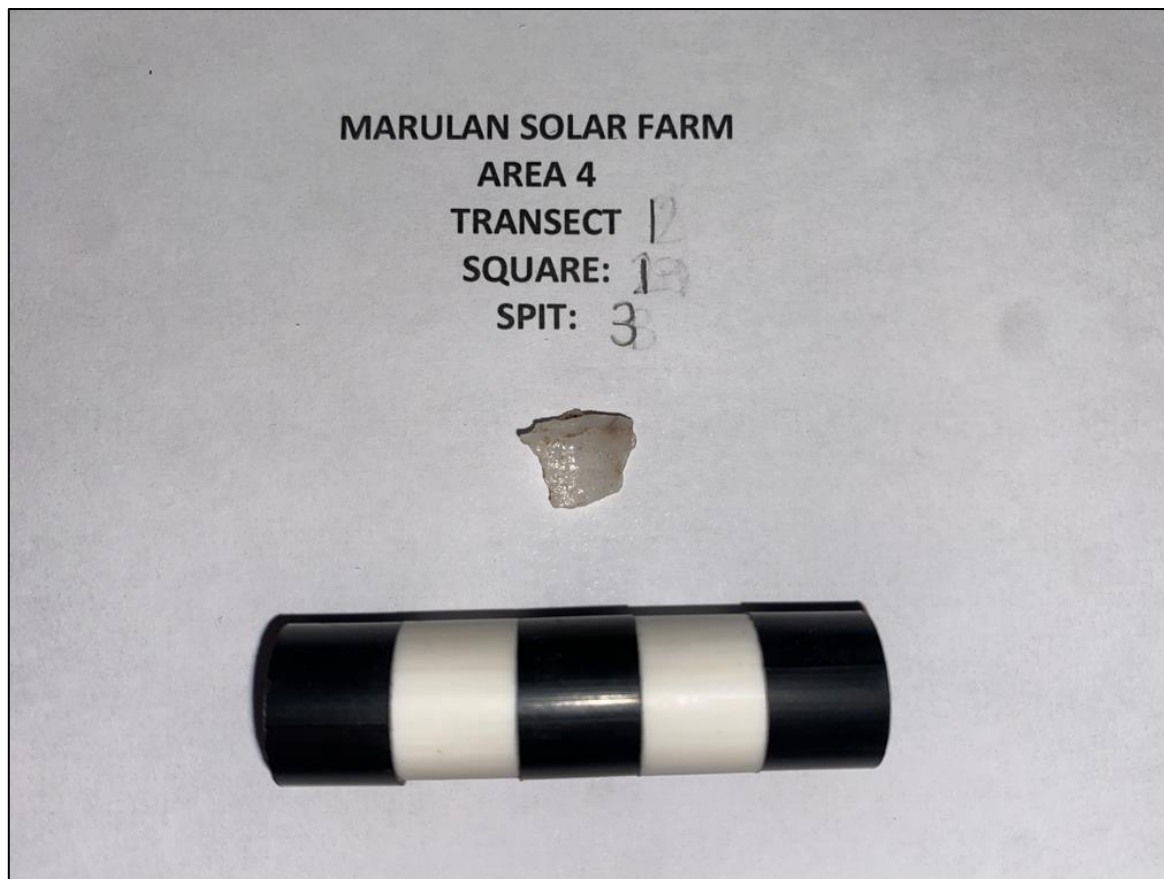
References

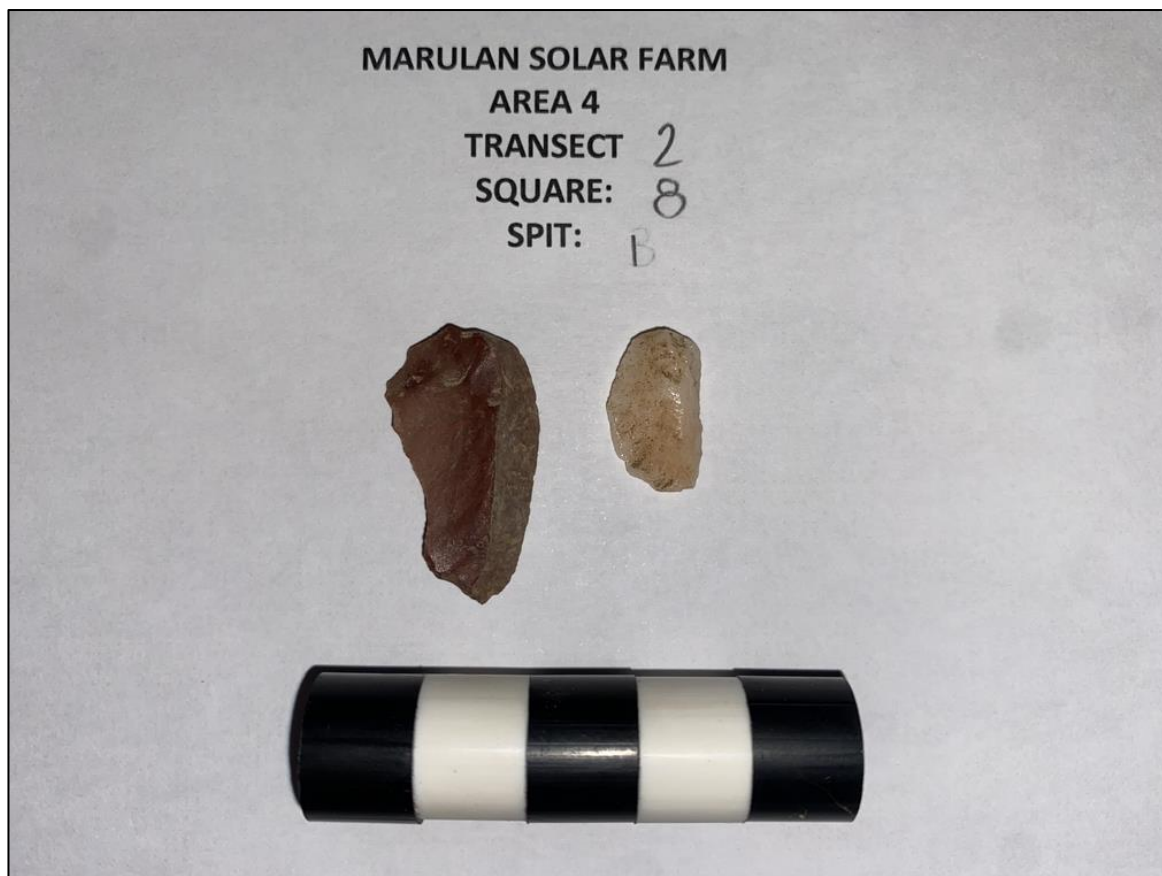
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Photographs

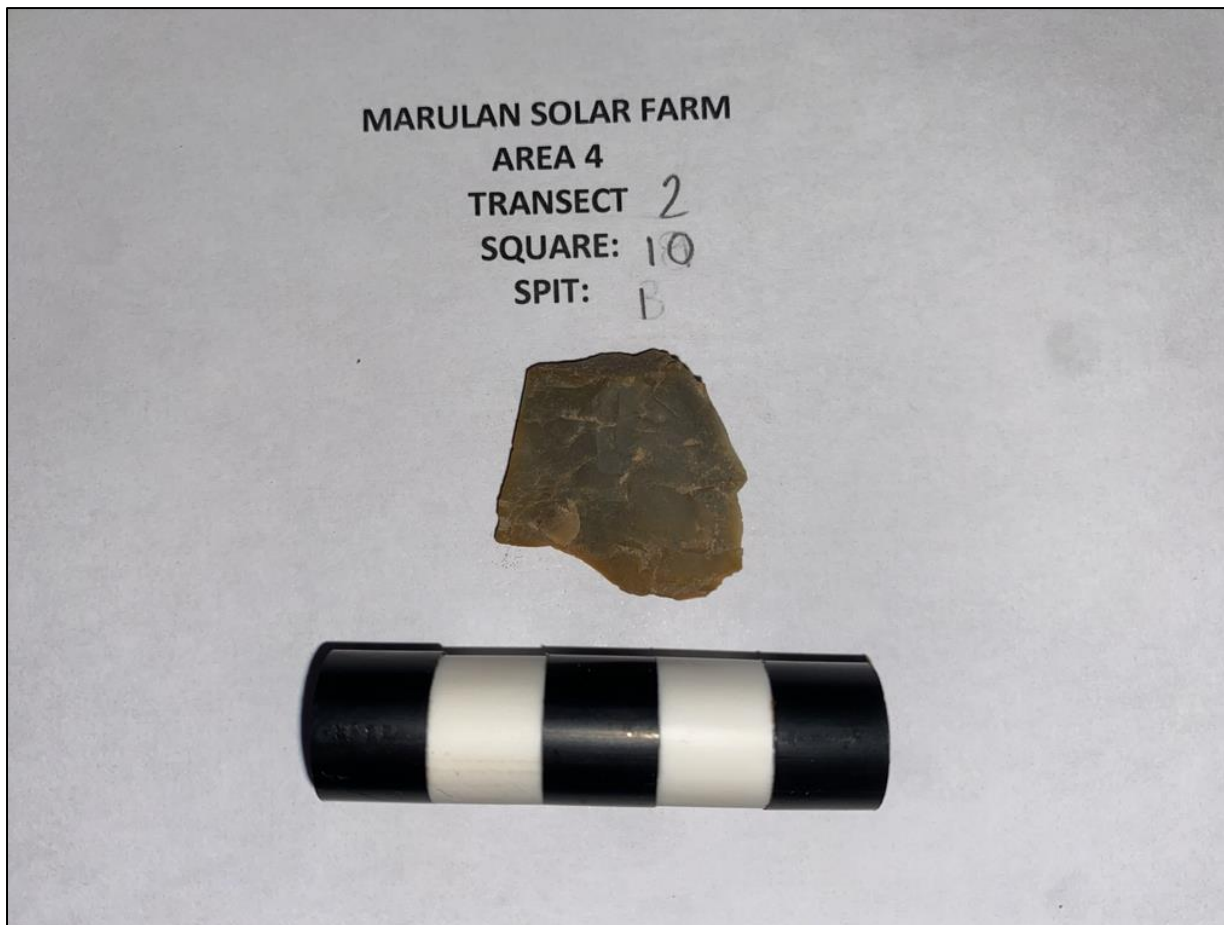


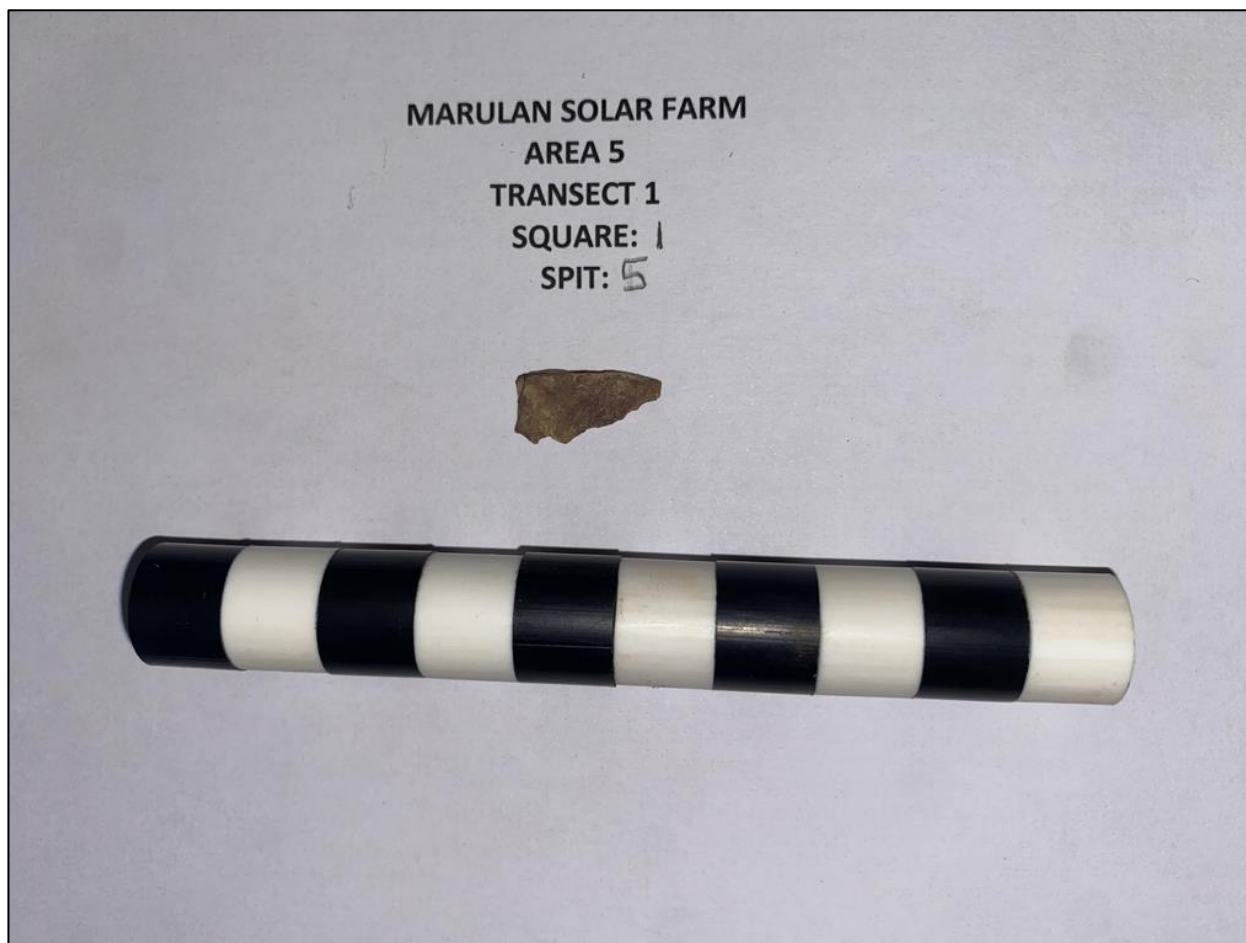














MARULAN SOLAR FARM
AREA 5
TRANSECT 1
SQUARE: 3
SPIT: 3



MARULAN SOLAR FARM
AREA 5
TRANSECT 1
SQUARE: 4
SPIT: 1



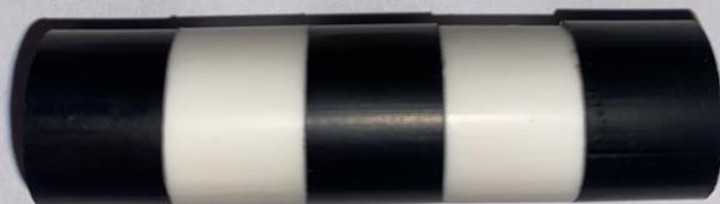
MARULAN SOLAR FARM

AREA 5

TRANSECT 1

SQUARE: 4

SPIT: 2



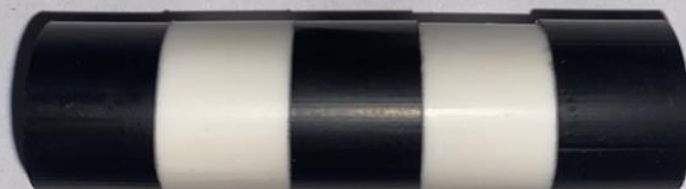
MARULAN SOLAR FARM

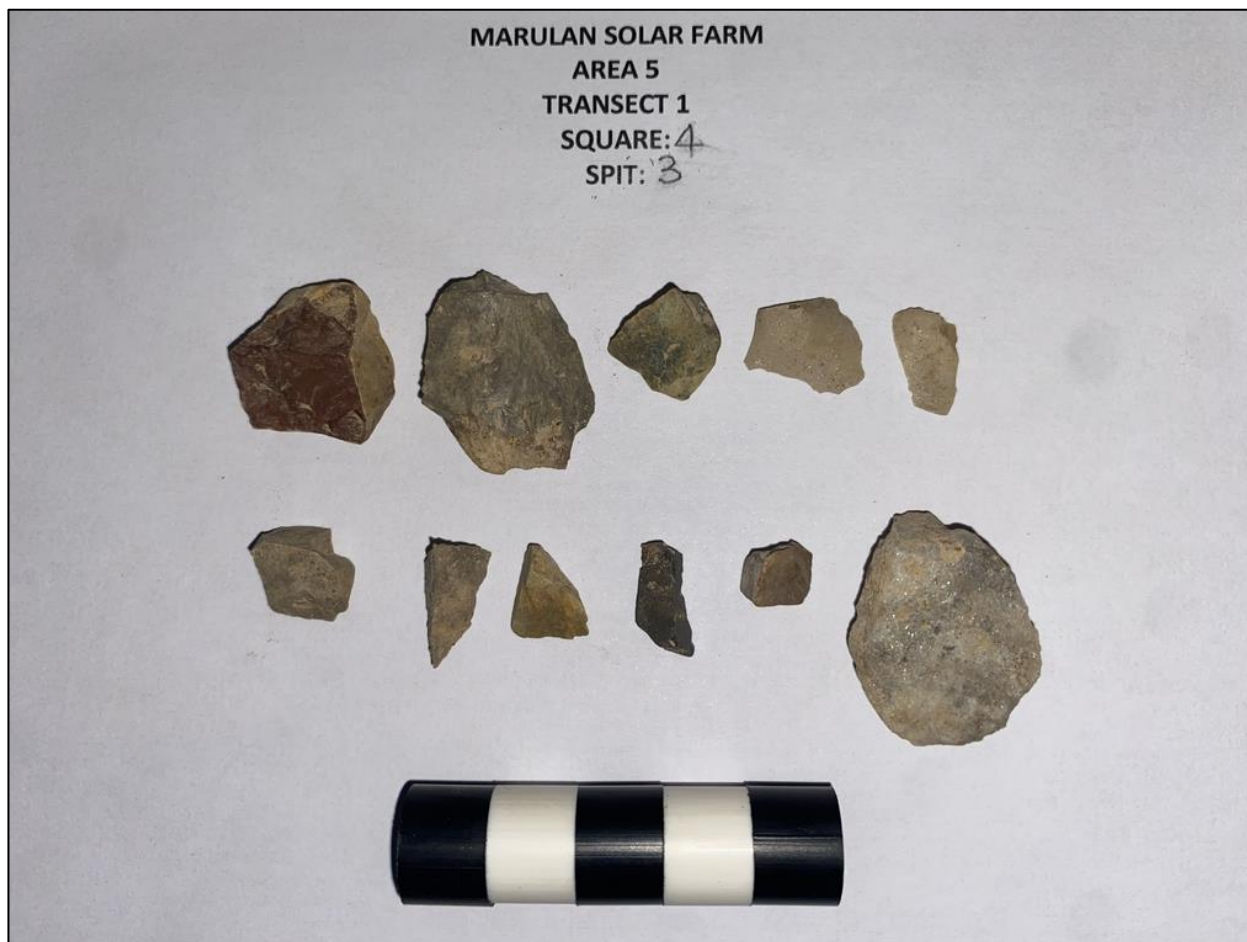
AREA 5

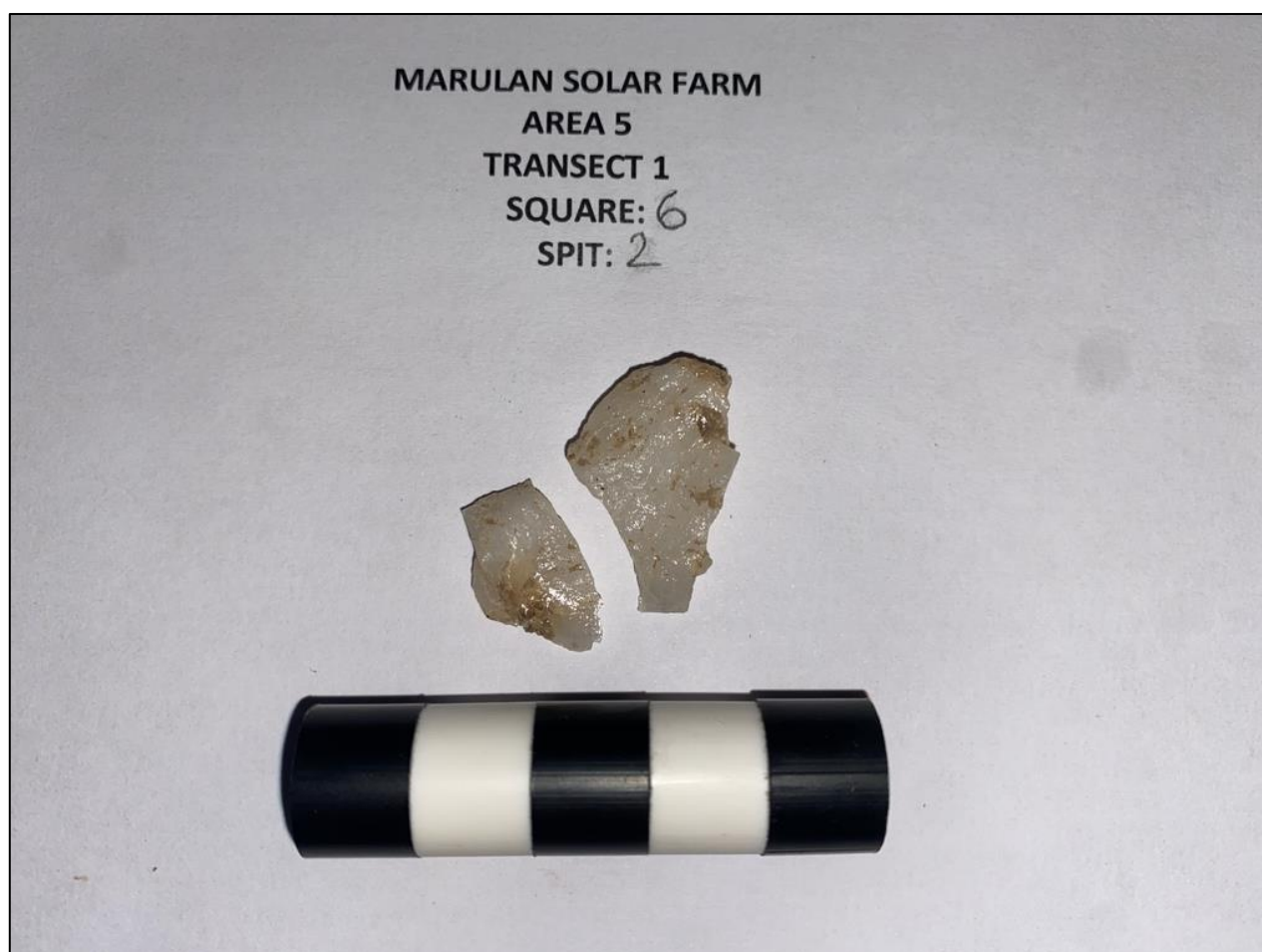
TRANSECT 1

SQUARE: 4

SPIT: 3

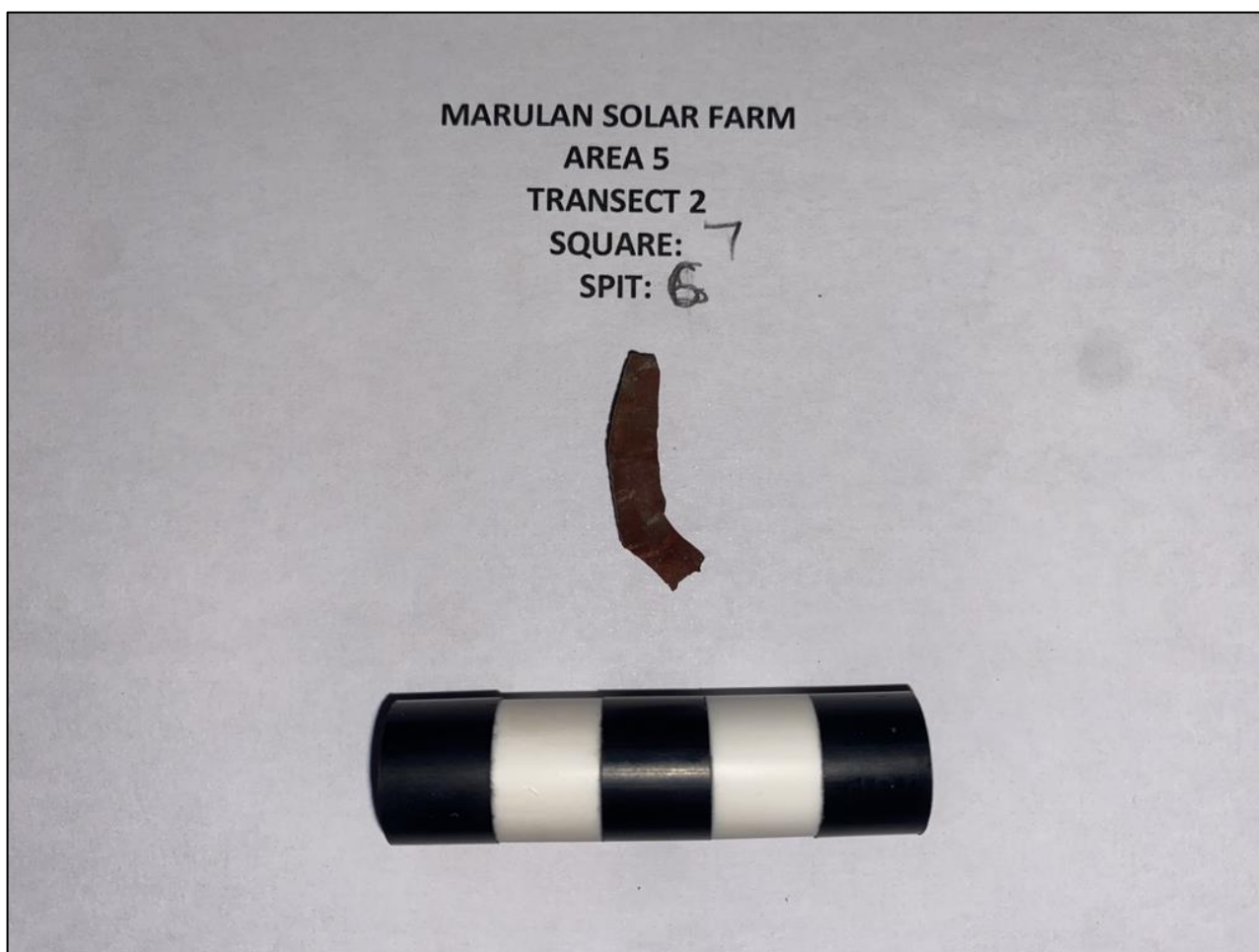






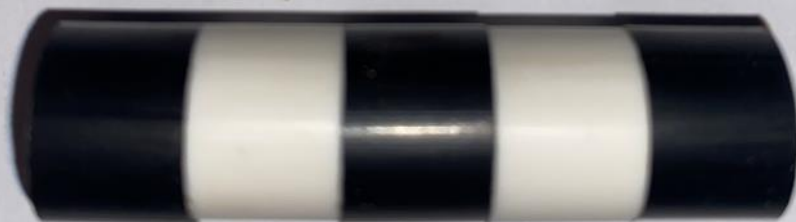




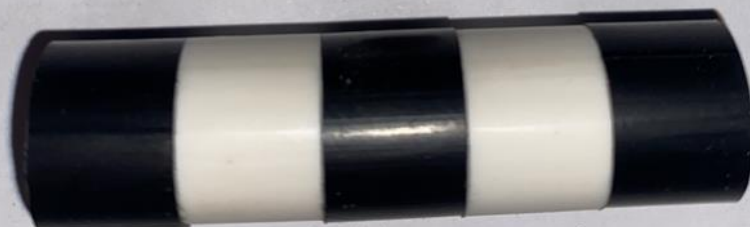




MARULAN SOLAR FARM
AREA 5
TRANSECT 2
SQUARE: 8
SPIT: 3



MARULAN SOLAR FARM
AREA 5
TRANSECT 2
SQUARE: 10
SPIT: 2







Appendix A: Artefact Catalogue

ID	Area	Transect	Square	Spit	Raw material	Artefact type	Length (mm)	Width (mm)	Thickness (mm)	Cortex (%)	Platform type	Initiation type	Termination	Retouch (Y/N)	Other
1	1	2	8	2	Silcrete	Flake	10	6	1	0	Abraded	Bending	Broken	0	
2	1	2	8	2	Silcrete	Flake	4	4	1	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
3	1	2	8	2	Quartz	Flaked piece	8	5	1	0				0	
4	1	2	8	2	Quartz	Flaked piece	5	3	3	0				0	
5	2	2	7	2	IMSTC	Flake	5	7	1	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
6	2	2	11	2	Quartzite	Flake	35	28	8	0	Flat	Conchoidal	Hinge	0	
7	3	1	5	1	IMSTC	Flake	12	8	1	0	Flat	Conchoidal	Step	0	
8	4	1	1	3	Quartz	Flaked piece	9	6	2	0				0	
9	4	1	2	1	IMSTC	Flake	12	13	2	0	Abraded	Bending	Broken	0	Transverse snap, proximal end
10	4	1	2	3	IMSTC	Flake	27	13	4	2	Flat	Conchoidal	Feather	1	Retouch on all margins. Negative flake scar on dorsal.
11	4	2	8	1	Silcrete	Flake	24	13	3	20	Flat	Conchoidal	Step	0	
12	4	2	8	1	Quartz	Flake	13	8	2	40	Abraded	Bending	Step	0	
13	4	2	8	2	Silcrete	Flake	8	12	3	0	Abraded	Bending	Broken	0	
14	4	2	8	2	IMSTC	Flake	9	9	2	5	Flat	Bending	Broken	0	Conjoins with 15 (new break), transverse snap,proximal end
15	4	2	8	2	IMSTC	Flake	8	6	2	10	Abraded	Bending	Step	0	Conjoins with 14 (new break)
16	4	2	9	1	Silcrete	Flake	26	22	28	0	Abraded	Bending	Broken	0	Transverse snap, proximal end
17	4	2	9	1	Silcrete	Flake	13	8	1	2	Cortical	Bending	Step	0	Heat treated
18	4	2	10	1	IMSTC	Flake	22	22	4	5	Flat	Conchoidal	Step	0	
19	5	1	1	1	IMSTC	Flake	18	11	2	2	Abraded	Conchoidal	Hinge	0	Conjoins with 21. Negative flake scar on dorsal.
20	5	1	1	1	IMSTC	Flake	13	3	1	50	Cortical	Bending	Hinge	0	Conjoins with 22.
21	5	1	1	1	IMSTC	Flake	11	8	1	0	Flat	Conchoidal	Step	0	
22	5	1	1	1	IMSTC	Flake	9	7	1	0	Flat	Bending	Broken	0	Transverse snap, proximal end
23	5	1	1	1	IMSTC	Flaked piece	11	5	2	0				0	

24	5	1	1	1	Quartz	Core	26	21	13	0				0	
25	5	1	1	1	Quartz	Core	26	14	9	0				0	
26	5	1	1	1	Quartz	Flake	7	3	1	0	Flat	Bending	Step	0	
27	5	1	1	5	IMSTC	Flake	6	13	3	0	Flat	Conchoidal	Step	0	
28	5	1	2	1	IMSTC	Core	51	38	16	30				0	Conjoins to 29
29	5	1	2	1	IMSTC	Flake	21	30	13	15	Complex	Bending	Step	1	Conjoins to 28. Retouch on both dorsal margins
30	5	1	2	1	IMSTC	Flake	26	13	9	0	Abraded	Conchoidal	Step	0	Heat treated
31	5	1	2	1	IMSTC	Flake	14	14	10	50	Flat	Conchoidal	Step	0	
32	5	1	2	1	IMSTC	Flaked piece	22	13	3	0				0	Heat treated
33	5	1	2	1	IMSTC	Flake	22	5	2	0	Abraded	Bending	Step	0	Heat treated
34	5	1	2	1	IMSTC	Flake	20	4	3	0	Abraded	Bending	Hinge	0	
35	5	1	2	1	IMSTC	Flake	16	3	3	0	Abraded	Bipolar	Hinge	0	
36	5	1	2	1	IMSTC	Flake	6	16	2	0	Abraded	Bipolar	Step	0	
37	5	1	2	1	IMSTC	Flake	13	13	2	0	Abraded	Benging	Step	0	Heat treated
38	5	1	2	1	IMSTC	Flaked piece	10	6	2	15				0	Heat treated
39	5	1	2	1	IMSTC	Flaked piece	12	8	5	0				0	
40	5	1	2	1	IMSTC	Flaked piece	11	8	4	10				0	Heat treated
41	5	1	2	1	IMSTC	Flaked piece	9	5	2	25				0	
42	5	1	2	1	Quartz	Core	16	13	11	0				0	
43	5	1	2	1	Quartz	Flaked piece	10	10	8	0				0	
44	5	1	2	1	Quartz	Flaked piece	10	3	3	0				0	
45	5	1	2	1	Quartz	Flaked piece	6	5	3	0				0	
46	5	1	2	2	IMSTC	Core	30	14	7	10				0	
47	5	1	2	2	IMSTC	Flaked piece	18	12	4	50				0	
48	5	1	2	2	IMSTC	Flaked piece	20	10	3	0				0	
49	5	1	2	2	IMSTC	Flake	16	8	1	0	Flat	Bending	Step	1	Retouch on right margin

50	5	1	2	2	IMSTC	Flaked piece	16	6	3	0				0	
51	5	1	2	2	IMSTC	Flaked piece	10	7	5	0				0	
52	5	1	2	2	IMSTC	Flake	6	11	3	5	Flat	Bending	Step	0	
53	5	1	2	2	IMSTC	Flake	6	4	1	0	Flat	Conchoidal	Step	0	
54	5	1	2	3	Silcrete	Flake	32	12	6	0	Flat	Bending	Feather	0	
55	5	1	2	3	Silcrete	Flake	33	17	6	50	Cortical	Conchoidal	Step	0	
56	5	1	2	3	Silcrete	Flake	23	11	3	50	Cortical	Bending	Step	0	
57	5	1	2	3	IMSTC	Core	30	16	14	0				0	
58	5	1	2	3	IMSTC	Flake	23	21	6	0	Flat	Conchoidal	Step	1	Retouch on left ventral margin
59	5	1	2	3	IMSTC	Flaked piece	20	16	11	10				0	
60	5	1	2	3	IMSTC	Flake	11	11	4	0	Abraded	Conchoidal	Broken	0	Transverse snap, proximal end
61	5	1	2	3	IMSTC	Flake	11	10	3	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
62	5	1	2	3	IMSTC	Flaked piece	10	11	3	0				0	
63	5	1	2	3	IMSTC	Flaked piece	7	6	3	0				0	
64	5	1	2	3	IMSTC	Flake	8	6	1	0	Flat	Bending	Broken	0	Transverse snap, proximal end
65	5	1	2	3	IMSTC	Flaked piece	21	11	1	0				0	
66	5	1	2	3	IMSTC	Flake	12	11	6	15	Flat	Bending	Feather	0	
67	5	1	2	3	IMSTC	Flake	11	19	2	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
68	5	1	2	3	Quartz	Flaked piece	7	6	4	0				0	
69	5	1	2	4	IMSTC	Flake	23	26	11	0	Flat	Conchoidal	Step	0	
70	5	1	2	4	IMSTC	Core	33	15	11	0				0	
71	5	1	2	4	IMSTC	Flaked piece	23	13	4	0				0	
72	5	1	2	4	IMSTC	Flaked piece	21	11	3	0				0	
73	5	1	2	4	IMSTC	Flaked piece	25	9	6	10				0	
74	5	1	2	4	IMSTC	Flake	12	14	2	0	Flat	Conchoidal	Step	0	Heat treated
75	5	1	2	4	IMSTC	Flake	14	9	4	0	Flat	Conchoidal	Step	0	

76	5	1	2	4	IMSTC	Flaked piece	13	11	11	5				0	
77	5	1	2	4	IMSTC	Flake	6	9	3	0	Flat	Conchoidal	Step	0	
78	5	1	3	3	IMSTC	Flaked piece	22	8	1	0				0	
79	5	1	4	1	IMSTC	Core	32	26	21	33				0	Conjoins with 81
80	5	1	4	1	IMSTC	Core	30	30	12	50				0	
81	5	1	4	1	IMSTC	Flaked piece	19	13	4	0				0	Conjoins with 79
82	5	1	4	1	IMSTC	Flake	18	14	4	0	Abraded	Bending	Step	0	
83	5	1	4	1	IMSTC	Flake	13	10	2	0	Flat	Bending	Step	0	
84	5	1	4	1	IMSTC	Flake	13	8	4	0	Flat	Bipolar	Hinge	0	
85	5	1	4	1	IMSTC	Flake	13	11	2	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
86	5	1	4	1	IMSTC	Flake	10	11	1	0	Flat	Conchoidal	Step	0	
87	5	1	4	1	IMSTC	Flake	13	7	1	0	Abraded	Bending	Step	0	Heat treated
88	5	1	4	1	IMSTC	Flaked piece	5	3	3	30				0	
89	5	1	4	1	Quartz	Flaked piece	6	5	3	0				0	
90	5	1	4	2	IMSTC	Flaked piece	16	6	1	0				0	
91	5	1	4	2	Quartz	Flaked piece	10	9	1	0				0	
92	5	1	4	2	Quartz	Flaked piece	10	7	2	0				0	
93	5	1	4	3	Glass	Flaked piece	22	13	3	0				0	?possible worked glass
94	5	1	4	3	Silcrete	Flaked piece	15	16	7	50				0	
95	5	1	4	3	IMSTC	Flake	22	19	4	0	Abraded	Bending	Step	0	
96	5	1	4	3	IMSTC	Flake	10	13	1	0	Flat	Bending	Broken	0	Transverse snap, proximal end
97	5	1	4	3	IMSTC	Flaked piece	9	9	4	0				0	
98	5	1	4	3	IMSTC	Flake	12	5	1	0	Flat	Bending	Step	0	
99	5	1	4	3	IMSTC	Flake	11	3	3	5				0	
100	5	1	4	3	IMSTC	Flaked piece	13	6	4	0				0	
101	5	1	4	3	IMSTC	Flaked piece	10	10	4	0				0	

102	5	1	4	3	IMSTC	Flaked piece	11	6	4	0				0	
103	5	1	4	3	IMSTC	Flaked piece	8	5	4	0				0	
104	5	1	4	3	Quartzite	Flaked piece	25	19	8	0				0	
105	5	1	4	4	IMSTC	Flaked piece	11	9	5	0				0	
106	5	1	4	4	IMSTC	Flake	11	10	1	0	Flat	Conchoidal	Step	0	
107	5	1	4	4	IMSTC	Flake	11	5	2	0	Flat	Conchoidal	Step	0	
108	5	1	4	4	IMSTC	Flaked piece	5	4	4	0				0	
109	5	1	4	4	IMSTC	Flaked piece	7	6	1	0				0	
110	5	1	4	4	Quartzite	Flake	11	8	1	0	Flat	Bending	Broken	0	Transverse snap, proximal end
111	5	1	4	5	IMSTC	Core	23	21	6	10				0	
112	5	1	4	5	IMSTC	Flake	10	11	1	0	Abraded	Conchoidal	Step	0	
113	5	1	6	1	Silcrete	Flake	26	25	5	5	Abraded	Bending	Step	0	
114	5	1	6	1	Quartz	Flaked piece	17	13	9	0				0	
115	5	1	6	2	Quartz	Flaked piece	20	15	3	0				0	Conjoins with 116 (new break), broken distal end of flake
116	5	1	6	2	Quartz	Flake	10	15	2	0	Flat	Bending	Step	0	Conjoins with 117 (new break), broken proximal end of flake
117	5	2	7	1	Silcrete	Flake	19	6	3	0	Flat	Conchoidal	Step	0	
118	5	2	7	1	Silcrete	Flake	12	4	1	0	Flat	Bending	Step	0	
119	5	2	7	2	Silcrete	Core	30	15	11	50				0	
120	5	2	7	2	Silcrete	Core	32	15	4	0				0	Transverse snap, proximal end
121	5	2	7	2	Silcrete	Flake	23	17	5	0	Abraded	Conchoidal	Step	0	
122	5	2	7	2	Silcrete	Flake	22	15	2	0	Abraded	Conchoidal	Feather	0	
123	5	2	7	2	Silcrete	Flake	18	12	3	0	Flat	Conchoidal	Feather	0	
124	5	2	7	2	Silcrete	Flake	20	5	3	0	Flat	Conchoidal	Step	0	
125	5	2	7	2	Silcrete	Flake	21	7	1	10	Flat	Bending	Hinge	0	
126	5	2	7	2	Silcrete	Flake	21	3	1	0	Flat	Conchoidal	Hinge	0	
127	5	2	7	2	Silcrete	Flake	16	12	1	0	Flat	Bending	Step	0	
128	5	2	7	2	Silcrete	Flake	12	16	2	50	Flat	Conchoidal	Step	0	

129	5	2	7	2	Silcrete	Flake	16	8	3	10	Cortical	Conchoidal	Hinge	0	
130	5	2	7	2	Silcrete	Flake	12	9	3	50	Cortical	Bending	Hinge	0	
131	5	2	7	2	Silcrete	Flaked piece	10	4	4	30				0	
132	5	2	7	2	Silcrete	Flaked piece	10	5	3	30				0	
133	5	2	7	2	Silcrete	Flake	6	6	1	0	Flat	Bending	Hinge	0	
134	5	2	7	2	IMSTC	Core	26	11	6	0				0	
135	5	2	7	2	IMSTC	Core	21	16	17	0				0	
136	5	2	7	2	IMSTC	Flake	22	9	4	0	Flat	Conchoidal	Hinge	0	
137	5	2	7	2	IMSTC	Flake	16	5	2	0	Flat	Bending	Hinge	0	
138	5	2	7	2	IMSTC	Flake	16	3	1	0	Flat	Conchoidal	Hinge	0	
139	5	2	7	2	IMSTC	Flake	16	8	1	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
140	5	2	7	2	Quartz	Flaked piece	12	10	9	0					
141	5	2	7	3	Silcrete	Flake	34	20	7	30	Flat	Bending	Broken	0	Transverse snap, proximal end
142	5	2	7	3	Silcrete	Flake	23	14	6	0	Flat	Conchoidal	Hinge	0	
143	5	2	7	3	Silcrete	Flake	12	7	2	0	Flat	Conchoidal	Step	0	
144	5	2	7	4	Silcrete	Flake	23	9	2	0	Abraded	Bending	Step	0	
145	5	2	7	4	Silcrete	Flake	20	8	1	0	Flat	Conchoidal	Step	0	
146	5	2	7	5	Silcrete	Flake	18	9	3	0	Abraded	Conchoidal	Step	1	Retouch on left dorsal margin
147	5	2	7	6	Silcrete	Flaked piece	21	6	3	30					
148	5	2	8	1	Silcrete	Flake	9	11	2	0	Flat	Bending	Step	0	
149	5	2	8	1	Silcrete	Flake	9	10	1	0	Flat	Conchoidal	Step	0	
150	5	2	8	1	IMSTC	Flake	25	14	2	0	Abraded	Bending	Step	0	
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152	5	2	8	1	IMSTC	Flake	29	9	1	0	Flat	Conchoidal	Hinge	0	
153	5	2	8	1	IMSTC	Flake	21	11	2	0	Flat	Conchoidal	Step	0	
154	5	2	8	1	IMSTC	Flake	18	27	4	0	Flat	Bending	Hinge	0	
155	5	2	8	1	IMSTC	Flake	18	19	2	0	Flat	Conchoidal	Step	0	
156	5	2	8	1	IMSTC	Flaked piece	24	19	3	0					

157	5	2	8	1	IMSTC	Flake	22	20	6	0	Flat	Conchoidal	Step	0	
158	5	2	8	1	IMSTC	Flake	18	15	2	0	Abraded	Bipolar	Step	0	
159	5	2	8	1	IMSTC	Flake	20	13	3	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
160	5	2	8	1	IMSTC	Flake	19	19	3	0	Flat	Bending	Step	0	
161	5	2	8	1	IMSTC	Flake	14	17	2	0	Flat	Bending	Broken	0	Transverse snap, proximal end
162	5	2	8	1	IMSTC	Flake	25	11	3	0	Abraded	Bending	Step	0	
163	5	2	8	1	IMSTC	Flake	17	9	6	0	Flat	Conchoidal	Feather	0	
164	5	2	8	1	IMSTC	Flaked piece	15	14	4	0					
165	5	2	8	1	IMSTC	Flaked piece	15	13	1	0					
166	5	2	8	1	IMSTC	Flake	15	8	1	0	Abraded	Bending	Broken	0	Transverse snap, proximal end
167	5	2	8	1	IMSTC	Flaked piece	13	12	1	0					
168	5	2	8	1	IMSTC	Flake	15	9	1	0	Flat	Bending	Broken	0	Transverse snap, proximal end
169	5	2	8	1	IMSTC	Flaked piece	13	11	1	0					
170	5	2	8	1	IMSTC	Flake	13	9	3	0	Abraded	Bending	Step	0	
171	5	2	8	1	IMSTC	Flaked piece	16	9	5	0					
172	5	2	8	1	IMSTC	Flaked piece	11	9	1	0					
173	5	2	8	1	IMSTC	Flaked piece	12	10	1	0					
174	5	2	8	1	IMSTC	Flaked piece	10	8	1	0					
175	5	2	8	1	IMSTC	Flaked piece	13	5	1	0					
176	5	2	8	1	IMSTC	Flaked piece	10	6	2	0					
177	5	2	8	1	IMSTC	Flaked piece	10	9	1	0					
178	5	2	8	1	IMSTC	Flaked piece	9	8	1	0					
179	5	2	8	1	IMSTC	Flake	9	9	1	0	Flat	Conchoidal	Step	0	
180	5	2	8	1	IMSTC	Flaked piece	11	6	2	0					
181	5	2	8	1	IMSTC	Flake	9	9	1	0	Flat	Conchoidal	Step	0	

182	5	2	8	1	IMSTC	Flaked piece	6	5	1	0					
183	5	2	8	1	IMSTC	Flaked piece	8	6	1	0					
184	5	2	8	1	IMSTC	Flaked piece	7	7	1	0					
185	5	2	8	1	IMSTC	Flaked piece	8	6	1	0					
186	5	2	8	1	IMSTC	Flake	7	5	1	0	Flat	Bending	Step	0	
187	5	2	8	1	IMSTC	Flaked piece	9	5	1	0					
188	5	2	8	1	Quartz	Flaked piece	11	6	2	0					
189	5	2	8	2	Silcrete	Flaked piece	21	11	3	0					
190	5	2	8	2	IMSTC	Flake	16	8	3	0	Abraded	Bending	Broken	0	Transverse snap, proximal end
191	5	2	8	2	IMSTC	Flaked piece	14	11	1	0					
192	5	2	8	2	IMSTC	Flaked piece	12	11	1	0					
193	5	2	8	2	IMSTC	Flaked piece	12	8	1	0					
194	5	2	8	3	IMSTC	Flaked piece	8	7	1	0					
195	5	2	8	3	IMSTC	Flaked piece	9	4	1	0					
196	5	2	8	3	IMSTC	Flaked piece	8	3	1	0					
197	5	2	10	2	Silcrete	Flake	20	6	1	30	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
198	5	2	11	1	IMSTC	Flake	6	16	6	0	Flat	Conchoidal	Step	0	
199	5	2	12	1	Silcrete	Flake	24	18	6	10	Flat	Bending	Step	0	
200	5	2	12	1	Silcrete	Flaked piece	12	11	2	0					
201	5	2	12	2	Silcrete	Flake	16	9	2	0	Abraded	Conchoidal	Broken	0	Transverse snap, proximal end
202	5	2	12	2	Silcrete	Flake	12	12	4	0	Flat	Conchoidal	Broken	0	Transverse snap, proximal end
203	5	2	12	2	Silcrete	Flaked piece	11	10	5	0					



APPENDIX I

AHIMS SITE CARD # 51-6-0908

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID: 51-6-0908

Date recorded: 22-11-2021

Site Location Information

Site name: Narambulla Creek IF-1

Easting: 766714 Northing: 6155008 Coordinates must be in GDA (MGA)

Horizontal Accuracy (m): 4

Zone: 55 Location method: Non-Differential GPS

Recorder Information

(The person responsible for the completion and submission of this form)

Title Surname First name
Mr. Churcher Ben

Organisation: OzArk EHM

Address: 145 Wingewarra St Dubbo NSW 2830

Phone: 0416009910 E-mail: ben@ozarkehm.com.au

Site Context Information

Land Form Pattern: Rolling Hills Land Use: Pastoral/Grazing

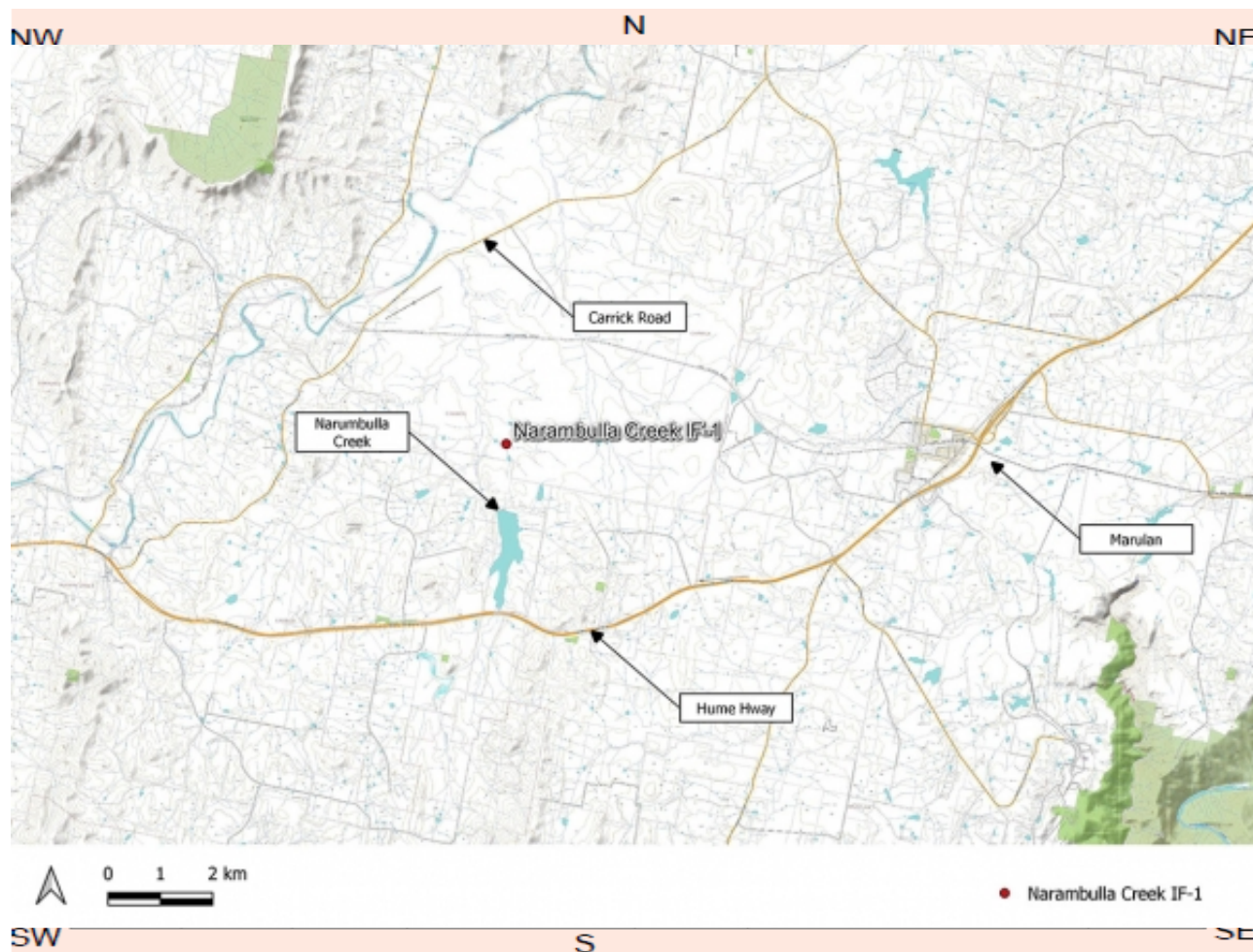
Land Form Unit: Slope Vegetation: Cleared

Distance to Water (m): 460 Primary Report: Premise 2022 Marulan Solar Farm

How to get to the site: Narambulla Creek IF-1 is located in the Lockyersleigh property within Lot 55 DP1141136.

Other site information: Quartz artefact measures 25 x 21 x 8 mm and is complete and at a tertiary stage of reduction.

Site location map



Site contents information

open/closed site:

Site condition:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
1. <input type="text" value="Artefact"/>	<input type="text" value="1"/>	<input type="text" value="5"/>	<input type="text" value="5"/>

Description:

Narumbulla Creek IF-1 is an isolated quartz flake located next to a farm track. The site is in a mid-slope landform 30 m from an eroded tributary to Narumbulla Creek that is 460 m west of the site. The artefact has likely been moved from its original location by water wash.

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
2. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
5.	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

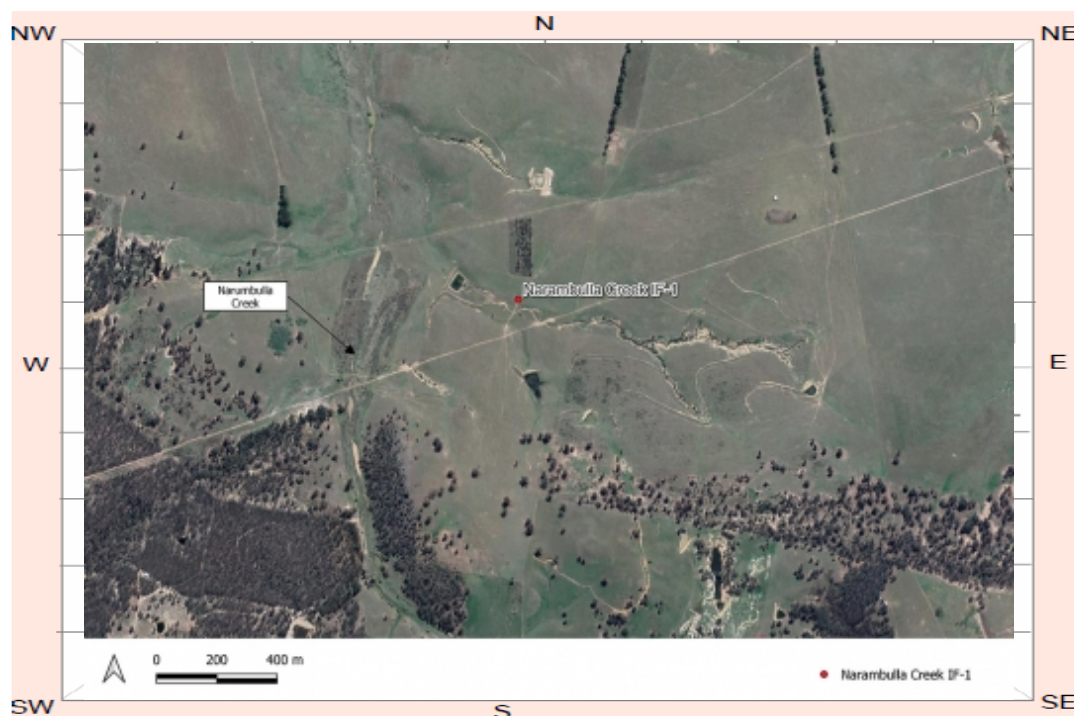
Scarred Trees

Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
-----------------	---------------	------------	--------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Other Site Info:

Quartz artefact measures 25 x 21 x 8 mm and is complete and at a tertiary stage of reduction.

Site plan

Site photographs



Description:

Description:

Description:

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type:

Gender

General

Location

Why is this site restricted?:

Further information contact

Title

Surname

First name

Organisation:

Address:

Phone: E-mail:



Premise

premise.com.au