Aboriginal Heritage Due Diligence Assessment – Stringybark Solar Farm

Stringybark Solar Farm Pty Ltd



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Template 2.8.1

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1. Introduction

1.1 Project background

Stringybark Solar Farm Pty Ltd (the Proponent) is undertaking an assessment for the development of a solar farm and associated infrastructure in the Argyle area within the New England Region, located approximately 14 km east of Armidale. Locally the site is situated within gently undulating agricultural land with minor ridgelines throughout and is near the recent Armidale Landfill development, located less than 1 km to the north of the Proposal.

The Proponent engaged Eco Logical Australia Pty Ltd (ELA) to undertake an Aboriginal archaeological due diligence assessment of the study area to identify if Aboriginal objects were likely to be located within the area of the proposed works and if so whether the proposed works had the potential to harm those objects.

A map of the proposed works has been provided by the Proponent (**Figures 1-2**). The works have been developed by the proponent adopting an "avoid-mitigate-offset" philosophy that seeks in the first instance to avoid potential impacts to cultural heritage. This philosophy underpins the current assessment; where potential constraints are identified and avoided through sensitive design.

This assessment outlines the findings of the Aboriginal archaeological due diligence assessment of the Study Area, in accordance with the Office of Environment and Heritage (OEH) *Due Diligence Code of Practice for the protection of Aboriginal Objects in New South Wales* (NSW DECCW 2010).

1.2 Assessment process

The aims of this archaeological due diligence assessment are to:

- Undertake a search of the Aboriginal Heritage Information Management System (AHIMS) register maintained by the OEH to establish if there are any previously recorded Aboriginal objects or places within the study area.
- Undertake a search of the NSW State Heritage Inventory, the Australian Heritage Database, and the Armidale Dumaresq Local Environmental Plan 2012 Schedule 5 (Environmental Heritage) in order to determine if there are any sites of archaeological significance or sensitivity located within the study area.
- Undertake a desktop review of relevant previous archaeological assessments to understand the local archaeological context and assist in predicting the likely occurrence of unrecorded archaeological sites or objects.
- Undertake a site inspection to identify any Aboriginal sites and areas of sensitive landforms.
- Prepare an archaeological due diligence assessment report determining if known objects or additional unrecorded objects are present within the study area, as well as to indicate whether further assessment and/or an Aboriginal Heritage Impact Permit (AHIP) is required.

The OEH process involves "taking reasonable and practical measures to determine whether your actions will harm an Aboriginal object and, if so, what measures can be taken to avoid that harm" (OEH 2010:4).

If an AHIP application is required, OEH necessitate that it is supported by an Aboriginal Cultural Heritage Assessment (ACHA) prepared in line with the '*Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*' (NSW OEH 2011), and a copy an approval for the development or infrastructure under Part 4 or Part 5 of the *Environmental Planning and Assessment Act 1979* (NSW).

An archaeologically sensitive landscape is an area that has the potential for archaeological material to be present within. According to the Due Diligence Code of Practice, archaeologically sensitive landscapes can include areas:

- Within 200m of waters, or
- Located within a sand dune system, or
- Located on a ridge top, ridge line, headland, or
- Located within 200m below or above a cliff face, or
- Within 20m of or in a cave, rock shelter, or a cave mouth;
- And is on land that is not disturbed land

According to the *Due Diligence Code of Practice,* disturbed land is defined as any area that has been the subject of a human activity that has changed the land's surface, being changes that remain clear and observable (NSW DECCW 2010:18).

"Land is disturbed if it has been the subject of a human activity that has changed the land's surface, being changes that remain clear and observable.

Examples include ploughing, construction of rural infrastructure (such as dams and fences), construction of roads, trails and tracks (including fire trails and tracks and walking tracks), clearing vegetation, construction of buildings and the erection of other structures, construction or installation of utilities and other similar services (such as above or below ground electrical infrastructure, water or sewerage pipelines, stormwater drainage and other similar infrastructure) and construction of earthworks." (NSW DECCW 2010)

1.3 Due diligence assessment summary

As the proposed development complies with the definition of Regionally Significant Development, legislation requires that a Due Diligence Assessment is required, advancing to an Aboriginal Cultural Heritage Assessment (ACHA) only if the Due Diligence triggers the requirements for an AHIP. As per Section 2.4 of ARCs LEP (2012) consultation with Aboriginal Stakeholders is not a requirement under the Due Diligence process, unless there is the potential to harm items of cultural heritage (thus triggering an AHIP).

ELA has undertaken a desktop and site survey archaeological due diligence assessment for the proposed solar infrastructure, in order to determine if there are any registered Aboriginal sites, artefacts or archaeologically sensitive landscape features that require further assessment. This assessment involved a review of the AHIMS database as well as State and Heritage registers, followed by a site visit and inspection. Following these assessments, it has been concluded that the area of proposed works does not contain indigenous archaeological materials and has low archaeological potential, thus further works in the form of an ACHA are not required.



Figure 1: The Study Area.



Figure 2: The Site

2. Assessment Process

2.1 Identify if the proposed activity will disturb the ground surface

The existing landscape and ground surface will be disturbed by the proposed development, consisting of numerous, shallow to deep, excavation works for solar infrastructure and access roads. This disturbance will be constrained to the proposed development envelope, the easement for the underground cable and an offsite substation (shown in **Figures 1-2**).

2.2 Database searches and known information sources

2.2.1 AHIMS search

The Aboriginal Heritage Information Management System (AHIMS) is a database maintained by OEH and regulated under Section 90Q of the *National Parks and Wildlife Act 1974*. AHIMS holds information and records regarding the registered Aboriginal archaeological sites (Aboriginal objects, as defined under the Act) and declared Aboriginal places that exist in NSW.

A search of the AHIMS database was conducted on 8 May 2019 to identify if any registered Aboriginal sites were present within, or adjacent to, the study area (**Appendix A**).

The AHIMS database search was conducted within the following coordinates – Datum: GDA, Zone: 56, Northing: 6608770 – 6628770, Easting: 372950 – 392950 covering an area of approximately 20 km².

The AHIMS search result showed that no items of cultural heritage or Aboriginal sites have been previously recorded within the study area. Three items of cultural heritage were found near the study area and are listed below in **Table 1**.

AHIMS Site ID	Aboriginal sites are recorded near the above location
21-4-0095	GL ISO2
21-4-0096	GL ISO1
21-4-0026	TH/JA 3

Table 1: AHIMS search result

The distribution of recorded Aboriginal sites within 20 km of the study area is shown in **Figure 3** (more local site views are shown in **Figure 4**). The frequencies of site types and contexts recorded within the AHIMS database search area are listed in **Table 2**.

Table 2: Frequencies of site types and contexts

Site Features	Number	%
Artefact	99	91.66
Potential Archaeological Deposit (PAD)	1	0.93
Modified Tree (Carved or Scarred)	3	2.77
Artefact, Modified Tree (Carved or Scarred)	1	0.93
Stone Quarry, Artefact	1	0.93
Ceremonial Ring (Stone or Earth)	2	1.85
Restricted	1	0.93
Total	108	100%



Figure 3: AHIMS registered sites within/in the vicinity of the Stringybark Site, with soil landscape features shown.

2.2.2 Previous archaeological investigations

Knuckey, G. Remnant Archaeology (2017). Cultural Heritage Assessment – Metz Solar Farm on "Bayley Park", Waterfall Way via Armidale. Armidale Local Government Area, New South Wales. Prepared for Eco Logical Australia on behalf of Infinergy Pacific

This investigation was performed for Eco Logical Australia (ELA) on behalf of Infinergy Pacific. ELA was engaged by Infinergy Pacific to prepare an EIS for the development of a solar farm at Metz off Waterfall Way, approximately 18.5 km east of Armidale, and engaged Remnant Archaeology (RA) to conduct the archaeological survey.

The investigation was carried out by RA under the guidelines for a State Significant Development (SSD 7931) under Part V of the EP&A Act 1979. This assessment formed the cultural heritage requirements set out in the Secretary's Environmental Assessment Requirements (SEARs) and Environmental Assessment Requirements (EARs) set by the Department of Planning and Environmental (DPE) and Office of Environment and Heritage (OEH) respectively. Surveys were undertaken with the assistance of interested Aboriginal Stakeholders, whom were also consulted by RA in regard to the development.

The report describes the field investigation undertaken and the responses and amendments made to the Cultural Heritage Assessment report (CHA) during Aboriginal stakeholder consultation.

Three low density artefact scatters were recorded during the survey, as well as 38 isolated artefacts, two scarred trees and a stone arrangement. Most sites were located on gentle slopes and within the undulating plains which were obviously disturbed, with fewer sites located within creek landform units.

Resulting from the investigation RA recommended the creation of a Cultural Heritage Management Plan (CHMP) to indicate where find spots cannot be reasonably avoided, to be in place before ground works were undertaken. Additionally, all scarred trees and the stone arrangement required an exclusion barrier of 10m from any works, with scarred tree barriers to be removed after the works and a stock proof fence erected around the stone arrangement. All initial ground disturbance works were to be undertaken in accordance with the procedures set out in the CHMP.

In the event of an unanticipated find, all works RA indicates that all work must cease in the immediate are (buffer of 10m) and fenced, followed with the management protocols within the CHMP.

<u>AECOM Australia Pty Ltd (2016). Armidale Regional Landfill Aboriginal Heritage Management Plan.</u> <u>Prepared for Armidale Dumaresq Council</u>

This Aboriginal Heritage Management Plan (AHMP) was prepared by AECOM on behalf of Armidale Regional Council (ARC) following and in response to the field investigation at the Armidale Regional Landfill development, which identified Aboriginal heritage values within the development area.

The assessment of Aboriginal heritage values, impacts and management procedures were identified in AECOMs initial Environmental Assessment. As a requirement of the Project Approval ARC committed to developing an AHMP, as listed in the Statement of Commitments (SoC) (Items 20 and 21) in AECOMs Environmental Assessment.

Two open artefact sites with Isolated silcrete flakes were discovered during the initial site investigation, one of which – GL ISO1 – was managed by its location in a vegetation conservation corridor and resultant avoidance of impact. The remaining artefact – GL ISO2 – was required to be fenced off at a minimum buffer distance of 5 m. Additional procedures and management strategies including consultation protocols, personnel cultural awareness training and management of unanticipated finds are listed in the AHMP.

Appleton, J. ARCHAEOLOGICAL SURVEYS & REPORTS PTY LTD (2009). The archaeological investigation for sites of Indigenous cultural significance for Part 3A Approval NEW ENGLAND REGIONAL LANDFILL Waterfall Way, east of Armidale, Northern Tablelands, NSW. Report for AECOM on behalf of Armidale Dumaresq Council

This investigation was performed for AECOM on behalf of Armidale Dumaresq Council (ADC). AECOM was engaged by ADC to prepare an Environmental Assessment (EA) for the construction of a landfill facility at Gara off Waterfall Way, approximately 12 km east of Armidale (immediately adjoining the eastern boundary of the proposed Olive Grove site and northern boundary of the Stringybark site), on the Northern Tablelands, and AECOM engaged Archaeological Surveys & Reports Pty Ltd (ASR) to undertake an archaeological investigation of the property to meet the criteria for the EA.

The field investigation for this project was undertaken in May 2006 (Appleton 2006), but subsequently Council decided to seek approval for the project as a Part 3A "Major Project", under 'Section 6 Approvals' of the National Parks and Wildlife Act 1974 (as amended).

In 2006 the scope of works was for ASR to conduct an archaeological investigation of the study area with the assistance of a representative of the Anaiwan Aboriginal Traditional Owners Resource and Cultural Heritage Management Association Incorporation (Anaiwan Aboriginal Traditional Owners), to identify any Aboriginal sites and relics that might be present. The results of the investigation were to be presented in a report, which was to include an assessment of the significance of any cultural relics or places identified, an appraisal of the options and opportunities arising from the discoveries, and clear recommendations for the management of those cultural resources.

Subsequently, when Council elected to apply for development approval as a Part 3A "Major Project" it became necessary to comply with the requirements of the "*Guidelines For Aboriginal Cultural Heritage Impact Assessment and Community Consultation*" (DECC 2005). This requirement stipulates that "all interested Aboriginal stakeholders" should be consulted and informed of the proposed development. The brief required ASR to undertake the consultation with the interested Aboriginal stakeholders and to report on the consultation process and outcomes.

This report describes the field investigation of the site undertaken in May 2006, and the additional consultation with the registered Aboriginal stakeholders required for Part 3A Approval undertaken in March 2009.

Two isolated artefacts were recorded during the investigation, one in an eroding creek bank in the proposed road corridor, and the other on a saddle in partially cleared and significantly disturbed open woodland in the proposed Landfill Site.

On the recommendations of the Aboriginal Elders and ASR Council agreed to avoid impacting upon the two site locations, and to ensure that accidental damage did not occur to the site in the access road corridor a circle of vertical posts would be placed around site "GL ISO2" at a radius of 10m from the artefact. Given that Part 3A does not require a developer to make such a concession Council is to be applauded for its sensitivity.

Council is advised that both of the artefact locations were registered as Aboriginal sites on the AHIMS Site Register although the listing will not be a constraint to Part 3A Approval.

While Part 3A Approval would render any constraints that might otherwise have applied under the National Parks and Wildlife Act 1974 (as amended) ineffective, ASR recommends that in the interests of the Armidale Aboriginal Community Council should instruct their employees, sub-contractors, machine operators and representatives, whether working on the project Site or elsewhere, that in the event of any bone or stone artefacts, or discrete distributions of shell, or any objects of cultural association, being unearthed during earthmoving, work should cease immediately in the area of the find.

In the event that any bone cannot be clearly identified by a qualified archaeologist as being of animal remains the police are to be informed of its discovery, and officials and/or their representatives of Armidale LALC, Nyakka Aboriginal Culture Heritage Corporation Archaeological & Cultural Heritage Consultants, and the Manager, Planning & Aboriginal Heritage, DECC, Coffs Harbour, advised that the bone is subject to police investigation.

Work should not recommence in the area of the find, until both the police (if bone has been found) and those officials or representatives have given their permission to do so. Those failing to report a discovery and those responsible for the damage or destruction occasioned by unauthorised removal or alteration to a site or to archaeological material may be prosecuted under the National Parks and Wildlife Act 1974, as amended.

<u>Appleton, J. (1990). A report of the salvage operation of the archaeological material from the New</u> <u>England Traffic Education Centre, Armidale, N.S.W.</u> Prepared for the New England Traffic Education <u>Centre</u>

This archaeological salvage survey was undertaken for the New England Traffic Education Centre Trust (NETEC) in relation to the development for a Traffic Education Centre in Armidale. A consultant (J. Appleton) was engaged by NETEC to undertake salvage works for artefacts identified during a previous survey undertaken for the development of the Traffic Education Centre, under the 'Consent and Permit to Salvage' dated the 30 July 1990.

The field survey and salvage were undertaken on an unknown date and resulted in the salvage of 22 artefacts within a creek terrace landscape unit, common in the New England Region. Artefacts salvaged were determined to be not in their original context and thus their significance in relation to the landform area was considered reduced.

The report concludes that the development of the New England Traffic Education Centre should proceed, with an archaeologist present for the initial stages of topsoil removal.

2.3 Landscape assessment

2.3.1 Existing environment

The study area is located within an undulating landscape, where elevation ranges between 990 - 1000 m Australian Height Datum (AHD). The study area (landholder boundary) has been historically cleared and grazed for sheep and cattle production and is typical of farmland in the region. A number of stock dams have been developed across the Site. A considerable portion of the study area has been cultivated for improved pasture. Surrounding land uses include:

- Agriculture;
- Transportation Waterfall Way is a major road connecting Armidale to the coast; and
- Rural dwellings (Primary Production Small Lots) are located 1.9 km west of the Site.

Armidale Regional Council has identified and developed the new Armidale Regional Landfill on the adjoining block immediately to the north of the Site (Lot 1 DP 1206469). At the time of writing, construction for the landfill is well advanced, however, the landfill is not operational.

Historically, agriculture has been a significant industry in the Armidale region and still plays an important role in both the social and economic wellbeing of the region today. The proposed development involves a temporary diversification in land use of up to 91 ha for the Development Envelope, 2 ha for the Substation Location Area and 0.4 ha for the connection cable easement of two larger landholdings (665 ha) for the duration of the project life (estimated to be 30 years). These areas make up the Stringybark Site within the study area. This changed land use may temporarily reduce agricultural production, however; a lease agreement has been established to compensate the landholders for foregone income due to reduced agricultural production. In addition, once constructed limited sheep grazing could continue within the study area to control vegetation beneath the solar panels.

2.3.2 Soil landscapes

The study area lies within the New England Orogen and is located on the Sandon Beds (Early Carboniferous, within the Sandon Association, consisting of low-grade metasediments, volcanics and cherts), to a lesser extent Girrakool Beds (Permian, within the Coffs Harbour Association, consisting of lithofelspathic wackes, felsic volcanics and interbedded slates) underlie parts of the study area. (ASUD, 2019; Geoscience Australia, 2019; Gilligan et al., 1992).

The Soil Landscapes of the Armidale map sheet (King, 2009) covers the Site and identified the following soil landscapes occurring over the project area (**Figure 3**):

- Middle Earth; and
- Argyle;

The Middle Earth landscape is mapped as occurring on the undulating plains, rise and foot slopes of the Sandon Beds. The Argyle soil landscape is mapped as occurring on the rolling low hills and occasional hills on greywacke/chert and related sediments (King, 2009).

These soil landscapes have an erodibility potential ranging from moderate to very high, becoming extreme in areas associated with drainage. The site is dominated by Kurosols, Kandosols, and to a lesser extent Tenosols (Alluvial) along drainage lines.

2.3.3 Hydrology

The main hydrological features are Burying Ground Creek (Strahler 4th order, approx. 1.48 km west), Commissioners Waters (Strahler 6th order, 0.64 km south) and Gara River (Strahler 6th order, approx. 1.3 km east). Within the site these are fed by five Strahler 1st order streams, which develop into two Strahler 2nd order streams before making confluence with Commissioners Waters outside of the Site. All watercourses within the site have been modified by practices to improve pastures for grazing (ploughing and planting of exotic pastures), damming, show high levels of erosivity and are highly ephemeral (**Figure 4**).

2.3.4 Due Diligence Code of Practice

A number of factors influence the likelihood of Aboriginal objects being present in the landscape. The CoP states that further investigation in the form of a visual inspection must be conducted if activities are proposed to be:

- within 200 m of waters, or
- located within a sand dune system, or
- located on a ridge top, ridge line or headland, or
- located within 200 m below or above a cliff face, or
- within 20 m of or in a cave, rock shelter, or a cave mouth
- and is on land that is not disturbed land

The definition of disturbed land is as follows:

"Land is disturbed if it has been the subject of a human activity that has changed the land's surface, being changes that remain clear and observable."

Examples include ploughing, construction of rural infrastructure (such as dams and fences), construction of roads, trails and tracks (including fire trails and tracks and walking tracks), clearing vegetation, construction of buildings and the erection of other structures, construction or installation of utilities and other similar services (such as above or below ground electrical infrastructure, water or sewerage pipelines, stormwater drainage and other similar infrastructure) and construction of earthworks" (NSW DECCW 2010).

The area of proposed works is not located within 200 m above or below a cliff face, within 20 m of or in a cave, rock shelter, headland, sand dune or in a cave mouth. Ten 1st order and two 2nd order ephemeral streams are located within the site, with an additional four 1st order streams within 200 m of the site. These watercourses are not expected to have high archaeological potential given their ephemerality, location on highly disturbed land and strong erosion potential. Whilst one artefact has been found within the adjoining Armidale Landfill Development site in a 2nd order stream that originates within the 1060 Waterfall Way landholding, it is not considered to be in its original context, in addition, no cultural heritage items have been found in its upstream tributaries. A minor ridgeline runs along the northern edge of the landholder boundary and is traversed by the Site where the proposed cable easement runs. A single artefact has been found on this ridgeline within a vegetation

conservation reserve and is located within the nearby Armidale Landfill Development. This ridgeline is not expected to have high archaeological potential outside of the conservation reserve area, given its location on highly erosive soils and land which is extensively disturbed by agricultural ploughing, grazing and land modification, as well as subsurface excavation associated with the existing transmission easement. No items of cultural heritage were found during the detailed site investigation. The lack of archaeologically sensitive landscape features within the area indicates the site to have a low archaeological potential. The existing landscape shows high levels of previous disturbance due to agricultural workings, cleared and modified land. Despite the assessed low level of archaeological potential, expected subsurface disturbance is likely to be high and it is therefore possible that further works may encounter unexpected finds. If objects of cultural significance are suspected to be found, works must cease and protocol undertaken as defined in Section 4 of this report.



Figure 4: AHIMS sites within the Stringybark study area, with local hydrology shown. Note that AHIMS data have been adjusted to be projected into the correct datum and site context.

2.4 Predictive model

Based on the material evidence and range of archaeological sites across the region, it is clear that Aboriginal people have been utilising the land and resources within New England Highlands for thousands of years. The predictive model outlined in **Table 3** below has been developed for the study area based on the AHIMS search results, landscape assessment and regional and local Aboriginal archaeological context outlined above.

Table 3: Predicative model

Site Type	Description
Open camp sites / stone artefact scatters / isolated finds	Open camp sites represent past Aboriginal subsistence and stone knapping activities, and include archaeological remains such as stone artefacts and hearths. This site type usually appears as surface scatters of stone artefacts in areas where vegetation is limited and ground surface visibility increases. Isolated finds may represent a single item discard event, or be the result of limited stone knapping activity. The presence of such isolated artefacts may indicate the presence of a more extensive, in situ buried archaeological deposit, or a larger deposit obscured by low ground visibility. There are previously recorded stone artefact scatters and isolated artefacts close by the site. The development and impact boundary have been adjusted to avoid these features. Given that no works are to be undertaken outside of this boundary, there will be no impact on these cultural features.
Potential Archaeological Deposit	Potential Archaeological Deposits (or PADs) are areas where there is no surface expression of stone artefacts, but due to a landscape feature there is a strong likelihood that the area will contain buried deposits of stone artefacts. Areas that were observed to have artefacts may have PADs in the local surrounding landscape, as they are nearby to prominent ridgelines and high points in the local landscape. These areas (to the north of the site leading up to the ridgeline) have been avoided by the Development Envelope. No other areas within the site boundary are expected to host PADs due to prior disturbance and lack of conducive landscape features.
Scarred or carved trees	Tree bark was utilised by Aboriginal people for various purposes, including the construction of shelters (huts), canoes, paddles, shields, baskets and bowls, fishing lines, cloaks, torches and bedding, as well as being beaten into fibre for string bags or ornaments (sources cited in Attenbrow 2002: 113). Trees may also have been scarred in order to gain access to food resources (e.g. cutting toe-holds so as to climb the tree and catch possums or birds), or to mark locations such as tribal territories. Such scars, when they occur, are typically described as scarred trees. No Scarred Trees are present within the local area or were located within the site.
Axe grinding grooves	Grinding grooves are the physical evidence of tool making or food processing activities undertaken by Aboriginal people. The manual rubbing of stones against other stones creates grooves in the rock; these are usually found on flat areas of abrasive rock such as sandstone. No grinding groove features are present within the site and the local area does not contain any outcropping locations necessary for these archaeological features.
Bora / ceremonial	Aboriginal ceremonial sites are locations that have spiritual or ceremonial values to Aboriginal people. Aboriginal ceremonial sites may comprise natural landforms and, in some cases, will also have archaeological material. Bora grounds are a ceremonial site type, usually consisting of a cleared area around one or more raised earth circles, and often comprised of two circles of different sizes, connected by a pathway, and accompanied by ground drawings or mouldings of people, animals or deities, and geometrically carved designs on the surrounding trees. No landscape or alteration features are present to suggest a bora / ceremonial ground.
Burial	These types of sites are most likely to occur in locations of Aboriginal and settler interaction, such as on the edge of pastoral properties or towns. Artefacts located at such sites may involve the use of introduced materials such as glass or ceramics by Aboriginal people or be sites of Aboriginal

Site Type		Description
		occupation in the historical period.
		No records indicate interaction or burials within or near this site. These features were not observed in the field survey.
Contact historical sites	/	Artefacts located at such sites may involve the use of introduced materials such as glass or ceramics by Aboriginal people or be sites of Aboriginal occupation in the historical period.

2.5 Impact avoidance assessment

Database searches for indigenous archaeological items returned results within the regional vicinity with the closest site being within 100m of the northern edge of the study area and numerous other sites within 20 km of the area

The proposed works will not impact any known Aboriginal cultural heritage sites as the development envelope excludes the AHIMS registered sites near the study area. Due to the existing highly disturbed condition of the site and the lack of archaeologically sensitive landscape features there is low potential for an intact subsurface archaeological deposit to exist in the study area. Further works in the form of an Aboriginal Cultural Assessment (ACHA) is not required.

2.6 Visual inspection

A visual inspection of the study area was undertaken by ELA Archaeologists Andrew Crisp and Matt Elsley on May 13 and 14, 2019 and again on July 15, 2019 by Matt Elsley. Visual inspection aimed to identify Aboriginal and historical objects if present and assess the archaeological potential of the study area.

The Proposed Site consists of mostly cleared agricultural land with a small stand of trees near the dwelling located just south of the transmission easement, and a larger area of trees to the north of the Site. A network of eroded and ephemeral drainage lines that are intersected by small stock dams throughout the site, run to the south to make confluence with Commissioners Waters approximately 640 m away. The area is generally undulating and increases in relief and elevation towards the north of the site which forms a small ridgeline (**Figures 5a-5b**). One isolated artefact has been found on the northern aspect of this ridgeline approximately 80 m north of the site may have PADs present as indicated by the isolated find and the prominence of this landscape feature in the local area and so has been avoided by the development envelope. No items of archaeological significance or landscape features conducive to PADs are present within the development envelope. The area of road directly outside the south-western corner of the site – proposed for an additional site entrance - was also surveyed (15 July 2019, Matt Elsley) and was found to be highly disturbed and deeply excavated as evidenced from the road verges and is not archaeologically significant (**Figure 5c**).

The Site has high surface visibility due to extensive agricultural disturbance and drought conditions preventing excessive groundcover, with subsurface features exposed by erosional drainage lines and dam excavation works (**Figures 5d-5e**). Tracks and unsealed roads are present within the Site. Lithic

material present throughout the Site is consistent with the underlying rock types, being highly fractured metasedimentary material unsuitable for stone tool production (**Figure 5f**).

The location of the proposed transmission easement that will connect the Proposal to the offsite substation is shown on **Figure 2**. The easement and substation area were surveyed as part of the assessment. No archaeological items or archaeologically significant landscape features were found to be associated with the easement or substation.

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Figure 5: Site Description (a) General site overview showing surface exposure and disturbance, and undulating topography, Stringybark; note prominent ephemeral drainage and roads. (b) The Stringybark site, showing increasing relief to the north and ridgeline (over which the Landfill Development is located) in the far background. (c) Area of road just outside the south-west corner of the Stringybark site, where a site entrance is proposed. (d) Example of prominent ephemeral and erosive drainage lines, these areas provide good survey access to subsurface materials. (e) An example of a dam at the Stringybark site, this is typical of the form of dams throughout the site, often deeply excavated with soil stockpiling. (f) Example of the lithic material common throughout the Stringybark site, shown here in outcrop.

3. Statutory Requirements

Aboriginal objects and places in NSW are afforded protection under the *National Parks and Wildlife Act 1974* (NSW) regardless if they are registered on the Aboriginal Heritage Information Management System (AHIMS) register or not. Strict penalties apply for harm to an Aboriginal object or place without a defence under the Act. Under Section 87 of the Act there are five defences to causing harm to an Aboriginal object:

- The harm was authorised under an AHIP.
- By exercising due diligence and be able to demonstrate this.
- The actions complied with a code of practice as described in the National Parks and Wildlife Regulation 2009, for example, undertaking test excavation in accordance with the 'Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW'.
- It was a low-impact activity or omission under the regulation and where you don't know that an Aboriginal object is already present.
- Was an exemption under Section 87A, for example emergency fire-fighting act or bush fire hazard reduction work within the meaning of the *Rural Fires Act 1997*.

If an AHIP application is required, the OEH necessitate that it is supported by an Aboriginal Cultural Heritage Assessment (ACHA) prepared in line with the 'Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2010)', and a copy an approval for the development or infrastructure under Part 4 or Part 5 of the *Environmental Planning and Assessment Act 1979* (NSW).

The Due Diligence process has revealed no Aboriginal cultural items that will be affected by the Proposal and therefore does not require either an AHIP or ACHA to continue development.

4. Conclusions and Recommendations

The purpose of the Aboriginal heritage due diligence is to identify if there are registered Aboriginal sites and/or sensitive landforms which may indicate the presence of potential Aboriginal sites which may therefore require further assessment and approval under Part 6 of the *National Parks and Wildlife Act 1974*.

ELA has undertaken searches of the Aboriginal Heritage Information Management System (AHIMS) database maintained by the Office of Environment & Heritage (OEH), a review of available background reports and data and a visual inspection of the proposed Site.

No recorded Aboriginal objects or sites are located within the proposed development envelope, offsite substation or associated cable easement route, or were discovered during the detailed site survey, with the area of proposed works exhibiting low archaeological potential in a highly disturbed local setting.

A summary of this Aboriginal Due Diligence Assessment can be found in Appendix B.

Recommendations

Based on the findings of this due diligence and the requirement of the NP&W Act the following is recommended:

- Due to the low potential for any intact archaeological deposits and the highly disturbed setting, further works in the form of an Aboriginal Cultural Heritage Assessment (ACHA) is not required.
- Aboriginal objects are protected under the NPW Act regardless if they are registered on AHIMS or not. If suspected Aboriginal objects, such as stone artefacts are located during future works, works must cease in the affected area and an archaeologist called in to assess the finds. If the finds are found to be Aboriginal objects, OEH must be notified under section 89A of the NPW Act. Appropriate management and avoidance or approval under a section 90 AHIP should then be sought if Aboriginal objects are to be moved or harmed.
- In the extremely unlikely event that human remains are found, works must immediately cease, and the NSW Police should be contacted. If the remains are suspected to be Aboriginal, OEH must also be contacted at this time to assist in determining appropriate management.

References

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- Attenbrow, V. (2002). Sydney's Aboriginal Past: investigating the archaeological and historical records (p. 113). Sydney: UNSW Press.
- Geoscience Australia, (2019). Australian Region and Surface Geology, Interactive Maps. Geoscience Australia. URL; <u>http://maps.ga.gov.au/interactive-maps/#/theme/minerals/map/geology</u>. Accessed 15 July 2019.
- Gilligan L.B., Brownlow J.W., Cameron R.G. and Henley H.F., (1992). Dorrigo Coffs Harbour 1:250 000 Metallogenic Map, 1st edition, Geological Survey of New South Wales, Sydney.
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- NSW Department of Environment, Climate Change & Water (DECCW). (2010). *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales.* Department of Environment, Climate Change & Water, Sydney.
- NSW Office of Environment & Heritage (OEH). (2011). *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW*. NSW Office of Environment and Heritage, Sydney.

Appendix A AHIMS Search Results



AHIMS Web Services (AWS) Search Result

Purchase Order/Reference : 12937 - Gara/Argyle Solar Client Service ID : 419354

Date: 08 May 2019

Eco Logical Australia Pty Ltd - Sydney PO Box 12 668 Old Princes Hwy Sutherland New South Wales 1499 Attention: Andrew Crisp

Email: andrew.crisp@ecoaus.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Datum :GDA. Zone : 56, Eastings : 379950 - 385950. Northings : 6615770 - 6621770 with a Buffer of 0 meters, conducted by Andrew Crisp on 08 May 2019.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

5	Aboriginal sites are recorded in or near the above location.
0	Aboriginal places have been declared in or near the above location. *

Local Basic AHIMS Search



AHIMS Web Services (AWS)

Search Result

Purchase Order/Reference : 12937 - Gara/Argyle Solar Client Service ID : 419359

Date: 08 May 2019

Eco Logical Australia Pty Ltd - Sydney PO Box 12 668 Old Princes Hwy Sutherland New South Wales 1499 Attention: Andrew Crisp

Email: andrew.crisp@ecoaus.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Datum :GDA, Zone : 56, Eastings : 372950 - 392950, Northings : 6608770 - 6628770 with a Buffer of 0 meters, conducted by Andrew Crisp on 08 May 2019.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

108	Aboriginal sites are recorded in or near the above location.								
0	Aboriginal places have been declared in or near the above location. *								

Basic Regional AHIMS Search

Extensive AHIMS Search Results

NSW	Office of Environment & Heritage	AHIMS Web Services (A Extensive search - Site list rep	4WS) port							Your Ref/PO Number : 129 Client	37 - Gara/Argyle Solar Service ID : 419359
SiteID	<u>SiteName</u>	1	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
21-4-0014	Blue Hole;Armidale;		ngD	50	384500	6614500	Open site	vand	Arteract : -	Open Camp Site	97511
21 4 0017	<u>Contact</u> Woodhung Ougenry		ACD	MP.1	UKE GODWIN	6624600	On on oito	Walid	Stone Owenny	Outomat	
21-4-0017	woodbyne Quarry;	· · · · · · · · · · · · · · · · · · ·	460	50	374050	0024000	Open site	vand	Artefact : -	Quarry	
	<u>Contact</u>		Recorders	K Go	man				Per	mits	
21-4-0018	Gara Falls Reserve		AGD	56	384600	6614300	Open site	Valid	Artefact : -	Open Camp Site	97511
	<u>Contact</u>		Recorders	G Gi	opoulos				Per	mits	
21-4-0021	JAA 1 (NETEC)		AGD	56	373900	6621600	Open site	Valid	Artefact : -	Open Camp Site	1867
	<u>Contact</u>		Recorders	Mr.J	ohn Appletor				Per	mits	
21-4-0022	JAC 1;		AGD	56	376300	6624600	Open site	Valid	Artefact : -	Open Camp Site	1989
	Contact		Recorders	Mr.J	ohn Appletor	53			Per	mits	
21-4-0023	JAR 1;		AGD	56	373490	6625120	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>	1	Recorders	Mr.J	ohn Appletor				Per	<u>mits</u> 633	
21-4-0025	TH/JA 1		AGD	56	374660	6620410	Open site	Valid	Artefact : -	Open Camp Site	2172
	Contact		Recorders	Mr.J	ohn Appletor				Per	mits	
21-4-0026	TH/JA 3		AGD	56	382750	6619340	Open site	Valid	Artefact : -	Open Camp Site	2172,100973
	<u>Contact</u>		Recorders	Mr.J	ohn Appletor				Per	mits	
21-4-0027	TII/JA 5		AGD	56	386000	6620280	Open site	Valid	Artefact : -	Open Camp Site	2172,100973
	Contact		Recorders	Mr.J	ohn Appletor	6			Per	mits	
21-4-0028	TH/JA 7		AGD	56	392750	6621170	Open site	Valid	Artefact : -	Open Camp Site	2172
	Contact	1	Recorders	Mr.J	ohn Appletor				Per	mits	
21-4-0031	CA-Wdlds (1);		AGD	56	378030	6621010	Open site	Valid	Artefact : -	Open Camp Site	
	Contact		Recorders	Miss	Cheryl Ahoy				Per	mits 533	
21-4-0032	CA-Wdlds (2);		AGD	56	379000	6622998	Open site	Valid	Artefact : -	Open Camp Site	
	Contact		Recorders	Miss	Cheryl Ahoy				Per	mits	
21-4-0033	CA-Wdlds (3);		AGD	56	378039	6621000	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	1	Recorders	Miss	Cheryl Ahoy				Per	mits	
21-4-0034	CA-Wdlds (4);		AGD	56	379000	6621010	Open site	Valid	Artefact : -	Open Camp Site	
	Contact		Recorders	Miss	Cheryl Aboy				Per	mits	
21-4-0035	CA-Wdlds (5);		AGD	56	378040	6621040	Open site	Valid	Artefact : -	Open Camp Site	
	Contact		Recorders	Miss	Chervl Ahov				Per	mits	
21-4-0042	BGC 1;		AGD	56	380450	6619970	Open site	Valid	Artefact : ·	Open Camp Site	
	Contact		Recorders	Wer	dy Beck H B	urke			Per	mits 1126	
21-4-0058	TH/JA2		AGD	56	376050	6620250	Open site	Valid	Artefact : -		3172
	Contact	l	Recorders	Mr.J	ohn Appletor		1000 • 00000000000		Per	mits	

Report generated by AHIMS Web Service on 08/05/2019 for Andrew Crisp for the following area at Datum :GDA, Zone : 56, Eastings : 372950 - 392950, Northings : 6608770 - 6628770 with a Buffer of 0 meters. Additional info : 20km by 20km search area. Number of Aboriginal sites and Aboriginal objects found is 108 This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

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NSW.	Office of Environment & Heritage	AHIMS Web Services Extensive search - Site list r	(AWS) report							Your	Ref/PO Number : 129 Client	37 - Gara/Argyle Solar Service ID : 419359
SiteID	<u>SiteName</u>		Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures		SiteTypes	Reports
21-4-0059	TH/JA4		AGD	56	385000	6620010	Open site	Valid	Artefact: 1			2172
	Contact		Recorders	Mr.J	ohn Appleton				Pe	ermits		
21-4-0060	TH/JA6		AGD	56	387150	6620500	Open site	Valid	Artefact : -			2172
	Contact		Recorders	Mr.J	ohn Appleton				P	ermits		
21-4-0057	Threlfall Aboriginal Ca	impsite	AGD	56	384750	6613650	Open site	Valid	Artefact : -			1333
	<u>Contact</u>		Recorders	Ray	Fife				Pe	ermits		
21-4-0071	EL 1		AGD	56	377820	6622750	Open site	Valid	Artefact : 2			
	<u>Contact</u>		Recorders	Rob	ert Paton				Pe	ermits		
21-4-0072	Gara artefact 1		AGD	56	384860	6614350	Open site	Valid	Artefact : 2			
	Contact		Recorders	Kar	en Moorhouse	e			Pe	ermits		
21-4-0053	S74		AGD	56	379600	6623180	Open site	Valid	Artefact : -		Open Camp Site	
	Contact		Recorders	Alic	e Gorman				Pe	ermits		
21-1-0064	S71		AGD	56	382260	6628430	Open site	Valid	Artefact : -		Open Camp Site	99974
	<u>Contact</u>		Recorders	Alic	e Gorman				P	ermits		
21-4-0127	Clarks Gully Artefact 1		GDA	56	392766	6621342	Open site	Valid	Artefact : 1			
	Contact		Recorders	Ren	nant Archaed	ology			P	ermits		
21-4-0128	Clarks Gully Artefact 2		GDA	56	392778	6621358	Open site	Valid	Artefact : 1			
	Contact		Recorders	Ren	nant Archaed	ology			P	ermits		
21-1-0076	S73		AGD	56	381930	6626310	Open site	Valid	Artefact : -		Open Camp Site	99974
	<u>Contact</u>		Recorders	Alic	e Gorman				Pe	<u>ermits</u>		
21-1-0062	\$72		AGD	56	382150	6627600	Open site	Valid	Artefact : •		Open Camp Site	99974
	<u>Contact</u>		Recorders	Alic	e Gorman				<u>P</u>	ermits		
21-1-0057	S 72		AGD	56	382150	6627600	Open site	Valid	Artefact : -		Open Camp Site	
	Contact		Recorders	Alic	e Gorman				Pe	ermits		
21-4-0073	Gara Scarred Tree 1		AGD	56	384602	6613850	Open site	Valid	Modified Tree (Carved or Sca 1	urred) :		
	Contact T Russ	ell	Recorders	Mr.I	Bruce Cohen				Pe	ermits		
21-4-0074	Gara Artefact 2		AGD	56	384598	6613854	Open site	Valid	Artefact: 3			
	Contact T Russ	ell	Recorders	Mr.I	Bruce Cohen				P	ermits		
21-4-0080	Site 1 Dumaresq Cree	¢	AGD	56	374600	6623000	Open site	Valid	Artefact : 1			
	<u>Contact</u>		Recorders	Isab	el McBryde				Pe	ermits		
21-4-0081	Restriction applied. Pl	ease contact					Open site	Valid				
	ahims@environment. Contact	nsw.gov.au.	Recorders	Isab	el McBryde,B	arry Cain			Pe	ermits		

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NSW Office of Environment & Heritage **AHIMS Web Services (AWS)** Your Ref/PO Number : 12937 - Gara/Argyle Solar Extensive search - Site list report Client Service ID : 419359 Datum Zone Easting Northing Context Recorders Doctor.Graham KNUCKEY <td SiteID Datum SiteName Site Status SiteFeatures SiteTypes Reports Permits Contact 21-4-0177 Imbota NR 03 Valid Artefact : Contact 21-4-0178 Imbota NR Recorders Mr.Malcolm Ridges.Office of Environment & Heritage Permits Valid Artefact : -56 376932 6616086 Open site Recorders Mr.Malcolm Ridges,Office of Environment & Heritage Contact Permits 6616450 21-4-0179 Imbota NR 01 GDA 56 376760 Open site Valid Artefact : Permits Artefact : 1 So SF000 G010430 Open site Tana Mr.Malcolm Ridges,Office of Environment & Heritage 56 391617 6623090 Open site Valid **Recorders** Contact 21-4-0169 Bay Park Artefact Conc. 01 GDA Recorders Doctor.Graham KNUCKEY,Remnant Archaeology Permits Contact 21-4-0170 Bay Park Artefact Conc. 02 Artefact: 1 GDA 56 390693 6623656 Open site Valid Doctor.Graham KNUCKEY,Remnant Archaeology 56 389778 6625165 Open site Contact 21-4-0171 Bay Park Artefact Conc. 03 <u>Recorders</u> Permits Valid Artefact : 1 Permits Artefact : -GDA Recorders Doctor.Graham KNUCKEY,Remnant Archaeology AGD 56 384650 6614500 Open site <u>Contact</u> Gara Open Camp Site 21-4-0051 Valid Open Camp Site 97511 Permits Ceremonial Ring Contact 21-1-0008 Wayford Station:Armidale; Recorders Karen Moorhouse AGD 56 380400 6626400 Open site Valid Bora/Ceremonial Ceremonial Ring (Stone or Earth) : • <u>Permits</u> Recorders Isabel McBryde AGD 56 384650 <u>Contact</u> 21-1-0038 Ja/Thal 5; 6626450 Open site Valid Artefact : Open Camp Site 2489 Recorders Mr.John Appleton ACD 56 385860 6627530 Open site Contact 21-1-0039 Ja/Thal 4; Permits Valiđ Artefact : -Open Camp Site 2489 <u>Contact</u> Rockvale F Recorders Mr.John Appleton AGD 56 373330 6625310 Permits 21-1-0043 Open site Valid Artefact : Isolated Find Recorders Mr.John Appleton AGD 56 373260 6625120 Open site Contact Permits 21-1-0044 Rockvale 2 Valid Artefact : -Isolated Find Contact Recorders 5 Sutton Permits 21-1-0045 Rockvale 2a AGD 56 373280 6625130 Open site Valid Ceremonial Ring (Stone or Earth) Bora/Ceremonial Contact 21-1-0046 RL2; <u>Recorders</u> S Sutton AGD 56 373410 6625580 Open site Permits Valid Artefact : Open Camp Site 3380 Recorders Mr.John Appleton AGD 56 373330 6 Contact Permits 21-1-0047 RL1; 6625440 Open site Valid Artefact : Isolated Find 338(Recorders Mr.John Appleton AGD 56 373320 6625270 Open site Contact Permits 21-1-0049 Rockvale 9 Artefact: Valid Isolated Find Recorders Mr.John Appleton Contact Permits

Report generated by AHIMS Web Service on 08/05/2019 for Andrew Crisp for the following area at Datum :GDA, Zone : 56, Eastings : 372950 - 392950, Northings : 6608770 - 6628770 with a Buffer of 0 metrors. Additional Info : 20km by 20km search area. Number of Aboriginal sites and Aboriginal objects found is 108 This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such area tor omission.

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SITENAME PANAROMA COOKES R J. ISO2 Contact 3L ISO1 Contact Contact Dumaresq Dam scarred	DAD PAD	Datum GDA Recorders	<u>Zone</u> 56	Easting 374180	Northing	Context	Cite Chatra		- Cooler- 1000	
PANAROMA COOKES R Contact 1.1802 Contact 2.1801 Contact Dumaresq Dam scarred	DAD PAD	GDA Recorders	56	374180	1100010		site status	SiteFeatures	SiteTypes	Reports
Contact 11. ISO2 Contact 31. ISO1 Contact Dumarcsq Dam scarred		Recorders			6623262	0pen site	Valid	Potential Archacological Deposit (PAD) : 1		
11. ISO2 <u>Contact</u> 11. ISO1 <u>Contact</u> Dumaresq Dam scarred			0zA	rk Environm	ental and Heri	tage Management	1	Permits		
<u>Contact</u> GL ISO1 <u>Contact</u> Dumaresq Dam scarred		GDA	56	383143	6619426	Open site	Valid	Artefact : -		
GL ISO1 <u>Contact</u> Dumarcsq Dam scarred		Recorders	Mr.J	ohn Appleto	n			Permits		
<u>Contact</u> Dumarcsq Dam scarred		GDA	56	383235	6618414	Open site	Valid	Artefact : -		
Dumaresq Dam scarred		Recorders	Mr.J	ohn Appleto	n			Permits		
	Tree No.2	GDA	56	373236	6622788	Open site	Valid	Modified Tree (Carved or Scarred) :		
Contact		Recorders	Mr.S	Steven Ahoy				Permits		
ommissioners waters		GDA	56	373761	6624589	Open site	Valid	Modified Tree (Carved or Scarred): -		
Contact		Recorders	Mr.0	Colin Ahoy,M	rs.Mikaela Palı	mer		Permits		
Waterfall way rest area	(Armidale)	GDA	56	373171	6622876	Open site	Valid	Artefact : -, Modified Tree (Carved or Scarred) : -		
Contact		Recorders	Mr.5	Steven Ahoy				Permits		
rown land site Ant nes	12	GDA	56	374493	6621925	Open site	Valid	Artefact : -		
Contact		Recorders	Mr.S	Steven Ahoy				Permits		
Dangsleigh Road crown	land site	GDA	56	373138	6621219	Open site	Valid	Artefact : -		
<u>Contact</u>		Recorders	Mr.S	Steven Ahoy	1010000-0000			Permits		
)angsleigh Road crown	land site Ant nest 2	GDA	56	375527	6621464	Open site	Valid	Artefact : -		
Contact		Recorders	Mr.5	Steven Ahoy				Permits		
Jangsleigh Road crown	land site Ant nest 3	GDA	50	375443	6621398	Open site	Valid	Artefact : -		
Contact	loud August 1	Recorders	Mr.S	Steven Ahoy	6694545	On an aite	Valid	Permits		
angseign koau crown	land Ant nest 1	GDA	30	373355	0021345	Open site	vand	Artelact		
Contact	manning site Ant post 1	Recorders	Mr.S	Steven Ahoy	6691544	On on site	Valid	<u>Permits</u>		
angsieign crown ianu	knapping site Ant nest 1	uba Basadasa	50	373330	0021344	open site	vanu	Artelact : *		
Lontact		Recorders CDA	Mr.S	272520	6672000	Onen cito	Walld	Artofacta		
one sports centre		0DA	50	373325	0023000	opensite	vanu	Artelact.		
Lontact Inc Dam		CDA	MP.3 56	272526	6622090	Onon cito	Valid	Artofact		
Genterat		GDA	50	373330	0023080	open site	vanu	Artelact : -		
contact	CDA	Mr.S	201617	Mr.Steven Ano	Onen cito	Valid	Artafacta			
	Contact Vaterfall way rest area Contact Contact Contact Contact angsleigh Road crown Contact angsleigh Road crown Contact angsleigh Road crown Contact angsleigh Road crown Contact Contact Tangsleigh Road crown Contact Cont	Contact Vaterfall way rest area (Armidale) Contact angsdeigh Road crown land site Contact angsdeigh Road crown land site Ant nest 2 Contact angsdeigh Road crown land site Ant nest 3 Contact angsdeigh Road crown land Ant nest 1 Contact angsdeigh Road crown land Ant nest 1 Contact Singsdeigh Commentation (Commentation	Contact Recorders Vaterfall way rest area (Armidale) GDA Contact Recorders Contact Contact Con	Recorders Mr./ Vaterfall way rest area (Armidale) GDA 56 Contact Recorders Mr./ Contact Recorders Mr./ Contact GDA 56 Contact Recorders Mr./ Contact Recorders Mr./ Contact Recorders Mr./ angsdeigh Road crown land site. GDA 56 Contact Recorders Mr./ angsdeigh Road crown land site. Ant nest 2 GDA 56 Contact Recorders Mr./ angsdeigh Road crown land site. 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Ant nest 1 GDA 56 Contact Recorders Mr./ 56	Contact Recorders Mr.Gain Aboy,M Vaterfall way rest area (Armidale) GDA 56 373171 Contact GDA 56 373171 Contact Recorders Mr.Steven Aboy angsleigh Road crown land site Ant nest 2 GDA 56 angsleigh Road crown land site Ant nest 3 GDA 56 Contact Recorders Mr.Steven Aboy angsleigh Road crown land site Ant nest 3 GDA 56 Contact Recorders Mr.Steven Aboy angsleigh Road crown land Ant nest 1 GDA 56 Contact Recorders Mr.Steven Aboy angsleigh rown land knapping site Ant nest 1 GDA 56 Contact Recorders Mr.Steven Aboy angsleigh rown land knapping site Ant nest 1 GDA 56 Contact Recorders Mr.Steven Aboy na psleigh rown land knapping site Ant nest 1 GDA 56 Contact Recorders Mr.Steven Aboy na psleigh rown land knapping site Ant nest 3	Recorders Mr-Colin Aboy-Mrs Mikaela Pal Contact Mr-Colin Aboy-Mrs Mikaela Pal Contact Contact CDA 56 373171 6622876 Contact Recorders Mr-Steven Aboy 6621925 Contact Recorders Mr-Steven Aboy 621925 Contact Recorders Mr-Steven Aboy 621925 Contact Recorders Mr-Steven Aboy 621926 Contact Recorders Mr-Steven Aboy 621938 Contact Recorders Mr-Steven Aboy 621398 Contact Recorders Mr-Steven Aboy	Recorders MrOlin Aboy.Mr Miksela Palmer Contact GDA 56 373171 6622876 Open site Contact Recorders MrSteven Aboy angsdeigh Road crown land site Ant nest 3 GDA 56 375138 621129 Open site Contact Recorders MrSteven Aboy angsdeigh Road crown land Ant nest 1 GDA 56 375350 621544 Open site<	Contact Recorders Mr. Colin Aboy.Mr. Mikaela Planer éaterfail way rest area (Armidale) GDA 56 373171 6622876 Open site Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy Valid angsleigh Road crown land site Ant nest 3 GDA 56 375350 621398 Open site Valid Contact Recorders Mr. Steven Aboy Valid Valid Contact Recorders Mr. Steven Aboy Valid Contact Recorders Mr. Steven Aboy<	Contact Recorder Mr.Contact Recorder Mr.Contact Open site Valid Artefact: , Modified Tree (Carved or Scarred) :- Contact GDA So 373 171 6622167 Open site Valid Artefact: , Modified Tree (Carved or Scarred) :- Contact Recorder Mr.Steven Ahay - Permits angsteigh Road crown land site Ant nest 3 GDA 56 375.318 6621298 Open site Valid Artefact: - Contact Recorder Mr.Steven Ahay - Permits angsteigh Road crown land site Ant nest 3 GDA <td>Contact Recorders Mr.Colan Aboy.Mr.Wikaela Palmer Permits Contact Recorders Mr.Colan Aboy.Mr.Wikaela Palmer Valid Artefact:-, Modified Contact Recorders N : Steven Aboy. Ge22876 Open site Valid Artefact:-, Modified Contact Recorders Mr.Steven Aboy. Ferritor Permits Contact Recorders Mr.Steven Aboy. Ge21925 Open site Valid Artefact:-, Modified Contact Recorders Mr.Steven Aboy. Steven Aboy. Permits Permits Contact Recorders Mr.Steven Aboy. Steven Aboy. Permits Permits Contact Recorders Mr.Steven Aboy. Steven Aboy. Permits Contact Recorders Mr.Steven Aboy. Permits Permits Contact Recorders</td>	Contact Recorders Mr.Colan Aboy.Mr.Wikaela Palmer Permits Contact Recorders Mr.Colan Aboy.Mr.Wikaela Palmer Valid Artefact:-, Modified Contact Recorders N : Steven Aboy. Ge22876 Open site Valid Artefact:-, Modified Contact Recorders Mr.Steven Aboy. Ferritor Permits Contact Recorders Mr.Steven Aboy. Ge21925 Open site Valid Artefact:-, Modified Contact Recorders Mr.Steven Aboy. Steven Aboy. Permits Permits Contact Recorders Mr.Steven Aboy. Steven Aboy. Permits Permits Contact Recorders Mr.Steven Aboy. Steven Aboy. Permits Contact Recorders Mr.Steven Aboy. Permits Permits Contact Recorders

Your Ref/PO Number : 12937 - Gara/Argyle Solar

NSW Office of Environment & Heritage **AHIMS Web Services (AWS)** Extensive search - Site list report

NSW	& Heritage	Extensive search - Site list	report								C	lient Service ID : 419359
SiteID	<u>SiteName</u>		Datum	Zone	Easting	Northing	<u>Context</u>	Site Status	SiteFeatu	res	SiteTypes	Reports
21-4-0145	Bay Park Isolated Artefa	act 11	GDA	56	392309	6621968	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	Doctor-Graham KNUCKEY,Remnant Archaeology Perr							
21-4-0146	Bay Park Isolated Artefa	act 12	GDA	56	392438	6622405	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0147	Bay Park Isolated Artefa	ict 13	GDA	56	392430	6622426	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	NUCKEY, Rem	nant Archaeology			Permits		
21-4-0148	Bay Park Isolated Artefact 14			56	392203	6622695	Open site	Valid	Artefact : -			103687
	Contact			Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0149	Bay Park Isolated Artefact 15		GDA	56	392466	6622349	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham l	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0150	Bay Park Isolated Artefa	ict 16	GDA	56	392387	6622506	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0151	Bay Park Isolated Artefa	ict 17	GDA	56	392463	6622324	Open site	Valid	Artefact : -			103687
	Contact			Doc	tor.Graham	CNUCKEY,Rem	nant Archaeology			Permits		
21-4-0152	Bay Park Isolated Artefa	act 18	GDA	56	392452	6622253	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0153	Bay Park Isolated Artefa	ict 19	GDA	56	392390	6621934	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0154	Bay Park Isolated Artefa	act 20	GDA	56	392564	6622282	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-4-0155	Bay Park Isolated Artefa	uct 21	GDA	56	390672	6623588	Open site	Valid	Artefact : -			103687
	Contact				nant Archae	ology				Permits		
21-4-0156	Bay Park Isolated Artefa	act 22	GDA	56	389899	6623931	Open site	Valid	Artefact : -			103687
	Contact	Recorders	Doc	tor.Graham i	KNUCKEY,Rem	nant Archaeology			Permits			
21-4-0157	Bay Park Isolated Artefa	ict 23	GDA	56	389847	6624183	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	Doctor.Graham KNUCKEY,Remnant Archaeology Per							
21-4-0158	Bay Park Isolated Artefa	act 24	GDA	56	389887	6624420	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		
21-1-0156	Bay Park Isolated Artefa	ict 25	GDA	56	389740	6625677	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham l	KNUCKEY,Rem	nant Archaeology			Permits		
21-1-0157	Bay Park Isolated Artefa	rct 26	GDA	56	389632	6625886	Open site	Valid	Artefact : -			103687
	Contact			Doc	Doctor.Graham KNUCKEY,Remnant Archaeology Permit							
21-1-0158	Bay Park Isolated Artefa	act 27	GDA	56	389660	6625884	Open site	Valid	Artefact : -			103687
	Contact		Recorders	Doc	tor.Graham	KNUCKEY,Rem	nant Archaeology			Permits		

Report generated by AHIMS Web Service on 08/05/2019 for Andrew Crisp for the following area at Datum :GDA, Zone : 56, Eastings : 372950 - 392950, Northings : 6608770 - 6628770 with a Buffer of 0 meters. Additional Info : 20km by 20km search area. Number of Aboriginal sites and Aboriginal objects found is 108 This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

AHIMS Web Services (AWS)

SiteID

21-1-0050

21-1-0081 EL 3

21-1-0127

21-4-0135

21-4-0136

21-4-0142

21-4-0056 EL 2

Contact 21-1-0051 Rockvale 2b;

NSW Office of Environment & Heritage NYI:

SiteName

Contact

Contact

Contact

Contact

Contact

Contact

<u>Contact</u> Bay Park Isolated Artefact 08

Rockvale 10;

Extensive search - Site list report Zone Easting 56 373300 Datum Northing Context Site Status Valid SiteFeatures SiteTypes AGD 6625250 Artefact : Open Camp Site Open site <u>Recorders</u> Mr.John Appletor Permits 56 373330 6625330 Open site Valid Artefact : -Recorders S Sutton Permits AGD 56 381700 6627950 Open site Valid Artefact : Robert Paton Recorders Permits 6623790 Open site Valid Artefact: AGD 56 377800 Recorders Vicki Parsley Permits AGD 56 374220 6626790 Open site Valid Artefact: 13 Mr.Phil Hunt 56 374245 <u>Recorders</u> Permits 6626980 Open site Valid Artefact: 2 AGD RecordersMr.Phil HuntAGD56374540 Permi 6626970 Valid Artefact : 3 Open site

Open Camp Site 21-1-0125 Blue Wren Open Site 1, ARM 113 Contact 21-1-0126 Blue Wren Open Site 2, ARM 114 <u>Contact</u> Armidale Walking Track Open Site 1, ARM 115 <u>Contact</u> Bay Park Isolated Artefact 01 Recorders Mr Phil Hunt Permits 56 391028 6623492 Open site Valid Artefact : <u>Contact</u> Bay Park Isolated Artefact 02
 Recorders
 Doctor.Graham KNUCKEY,Remnant Archaeology

 GDA
 56
 391166
 6622291
 Open site
 Permits Valid Artefact : Contact 21-4-0137 Bay Park Isolated Artefact 03 Recorders Doctor.Graham KNUCKEY,Remnant Archaeology Permits GDA 56 391622 6621803 Open site Valid Artefact: 103687
 Recorders
 Doctor.Graham KNUCKEY,Remnant Archaeology

 GDA
 56
 391631
 6622111
 Open site
 Permits 21-4-0138 Bay Park Isolated Artefact 04 Valid Artefact : -103687 Recorders Doctor.Graham KNUCKEY,Remnant Archaeology Permits 21-4-0139 Bay Park Isolated Artefact 05 Valid Artefact : GDA 56 391562 6623341 Open site Recorders Doctor.Graham KNUCKEY,Remnant Archaeology Permits 21-4-0140 Bay Park Isolated Artefact 06 GDA 56 391797 6622925 Open site Valid Artefact : 103687 Doctor.Graham KNUCKEY,Remnant Archaeology 56 391836 6622502 Open site Contact 21-4-0141 Bay Park Isolated Artefact 07 <u>Recorders</u> Permits Valid Artefact : 103687 GDA

Doctor.Graham KNUCKEY,Remnant Archaeology 56 392141 6622522 Open site Doctor,Graham KNUCKEY,Remnant Archaeology 56 391952 6621647 Open site Contact 21-4-0143 Bay Park Isolated Artefact 09 Recorders Permits 6621647 Open site Valid Artefact : <u>Contact</u> Bay Park Isolated Artefact 10 Recorders Doctor.Graham KNUCKEY,Remnant Archaeology Permits 21-4-0144 56 392041 6621647 Open site Valid Artefact : Recorders Doctor.Graham KNUCKEY,Remnant Archaeology Contact Permits

Report generated by AHIMS Web Service on 08/05/2019 for Andrew Crisp for the following area at Datum :GDA, Zone : 56, Eastings : 372950 - 392950, Northings : 6608770 - 6628770 with a Buffer of 0 meters. Additional Info : 20km by 20km search area. Number of Aboriginal sites and Aboriginal objects found is 108 This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and Its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

<u>Recorders</u> GDA

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Your Ref/PO Number : 12937 - Gara/Argyle Solar

Client Service ID : 419359

Reports

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Artefact:

Valid

NSW	Office of Environment & Heritage	AHIMS Web Service Extensive search - Site li	es (AWS) st report							Your Ref/PO Numbe	r : 12937 - Gara/Argyle Solar Client Service ID : 419359	
SiteID	<u>SiteName</u>		Datum	Zone	Easting	Northing	<u>Context</u>	Site Status	SiteFeatur	es SiteTypes	Reports	
21-1-0159	Bay Park Isolated Arte	fact 28	GDA	56	389534	6625610	Open site	Valid	Artefact : -		103687	
	Contact		Recorders	Doc	or.Graham I	KNUCKEY,Remi	nant Archaeology	Permits				
21-4-0159	Bay Park Isolated Arto	fact 29	GDA	56	389742	6623991	Open site	Valid	Artefact : -		103687	
	<u>Contact</u>		Recorders	Doctor.Graham KNUCKEY,Remnant Archaeology					Permits			
21-4-0160	Bay Park Isolated Arte	fact 30	GDA	56	389800	6624027	Open site	Valid	Artefact : -		103687	
	Contact		Recorders	Doc	or.Graham l	NUCKEY, Remi	nant Archaeology			Permits		
21-4-0161	Bay Park Isolated Arte	fact 31	GDA	56	389627	6623719	Open site	Valid	Artefact : -		103687	
	<u>Contact</u>		Recorders	Doc	or.Graham I	CNUCKEY,Rem	nant Archaeology			Permits		
21-4-0162	Bay Park Isolated Arte	fact 32	GDA	56	389669	6623860	Open site	Valid	Artefact : -		103687	
	Contact		Recorders	Doc	or.Graham I	KNUCKEY,Remi	nant Archaeology			Permits		
21-4-0163	Bay Park Isolated Arte	fact 33	GDA	56	389755	6623897	Open site	Valid	Artefact : -		103687	
	Contact			Doc	or.Graham l	KNUCKEY,Remi	nant Archaeology			Permits		
21-4-0164	Bay Park Isolated Artefact 34		GDA	56	389498	6624413	Open site	Valid	Artefact : -		103687	
	Contact		Recorders	Doc	or.Graham I	CNUCKEY,Remi	nant Archaeology			Permits		
21-1-0160	Bay Park Isolated Arte	fact 35	GDA	56	389509	6625579	Open site	Valid	Artefact : -		103687	
	Contact		Recorders	Doc	or.Graham l	KNUCKEY,Remi	nant Archaeology	Permits				
21-1-0161	Bay Park Isolated Arte	fact 36	GDA	56	389457	6625705	Open site	Valid	Artefact : -		103687	
	Contact		Recorders	Doc	or.Graham l	KNUCKEY,Remi	nant Archaeology			Permits		
21-4-0165	Bay Park Isolated Arte	fact 37	GDA	56	389334	6624650	Open site	Valid	Artefact : •		103687	
	Contact	Pecorders	Dec	or Craham I	NUCKEY Rom	ant Archaeology			Permits			

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Appendix B Aboriginal Due Diligence Assessment Summary

Due diligence is defined in the CoP as "taking reasonable and practical steps to determine whether a person's actions will harm an Aboriginal object and, if so, what measures can be taken to avoid that harm". The following section relates to the generic due diligence process as applied to the study area.

Step 1 – Will the activity disturb the ground surface or any culturally modified trees?

Yes. The proposed works will require surface disturbance associated with solar infrastructure and access roads.

There are no culturally modified trees recorded within the area of proposed works.

Step 2 – Are there any a) relevant confirmed site records on AHIMS, other sources of information, or b) landscape features that are likely to indicate presence of Aboriginal objects?

Consequently, if your proposed activity is:

Within 200m of waters, or

located within a sand dune system, or

located on a ridge top, ridge line or headland, or

located within 200m below or above a cliff face, or

within 20m of or in a cave, rock shelter, or a cave mouth;

and is on land that is not disturbed land then you must go to step 3.

"Land is disturbed if it has been the subject of a human activity that has changed the land's surface, being changes that remain clear and observable.

Examples include ploughing, construction of rural infrastructure (such as dams and fences), construction of roads, trails and tracks (including fire trails and tracks and walking tracks), clearing vegetation, construction of buildings and the erection of other structures, construction or installation of utilities and other similar services (such as above or below ground electrical infrastructure, water or sewerage pipelines, stormwater drainage and other similar infrastructure) and construction of earthworks." (DECCW 2010)

The area of proposed works is not located within 200 m below or above a cliff face, within 20 m of or in a cave, rock shelter, or a cave mouth.

Though waters are located within 200m of the site, these have been assessed as not archaeologically significant.

<u>A ridgeline is also located within 200 m of the site, but has been assessed as having a low archaeological potential and is therefore not archaeologically significant.</u>

Two registered AHIMS sites are located within 200 m of the proposed area of works. These are accounted for in the development envelope design and the impact area avoids these features.

This assessment found that the area of proposed works displays high levels of previous ground disturbance. Due to previous agricultural workings and clearing, it is unlikely that an intact subsurface archaeological deposit will be present within the site. The local area surrounding the site is moderately to highly disturbed due to previous land clearing, project development and similar agricultural works

No landscape features within the area of proposed works indicate high potential for expected archaeological deposits.

Step 3 – Can harm to Aboriginal objects listed on AHIMS or identified by other sources of information and/or can the carrying out of the activity at the relevant landscape features be avoided?

The proposed works will not impact on any known Aboriginal archaeological sites.

Regardless of the low archeologically potential of the area, predictive modelling indicates that potential subsurface Aboriginal sites are not likely to be impacted during these works.

Step 4 – Does the desktop and visual assessment confirm that there are Aboriginal objects or that they are likely?

The evidence collected during the assessments demonstrates that the site area is situated locally within a low archaeological potential landform unit, and that Aboriginal sites are not expected to be present.

Conclusions

The purpose of the Aboriginal heritage due diligence is to identify if there are registered Aboriginal sites and/or sensitive landforms which may indicate the presence of Aboriginal sites and may therefore require further assessment and approval under Part 6 of the *National Parks and Wildlife Act 1974*.

ELA has undertaken searches of the Aboriginal Heritage Information Management System (AHIMS) database maintained by the Office of Environment & Heritage (OEH), a review of available background reports and data and a visual inspection of the proposed works.

No recorded Aboriginal objects or sites are located within the Croft property or were discovered during the survey, with the area of proposed works exhibiting low archaeological sensitivity in a highly disturbed local setting.

Recommendations

Based on the findings of this due diligence and the requirement of the NP&W Act the following is recommended:

- Due to the low potential for any intact archaeological deposits and the highly disturbed setting, further works in the form of an Aboriginal Cultural Heritage Assessment (ACHA) is not required.
- Aboriginal objects are protected under the NPW Act regardless if they are registered on AHIMS or not. If suspected Aboriginal objects, such as stone artefacts are located during future works, works must cease in the affected area and an archaeologist called in to assess the finds. If the finds are found to be Aboriginal objects, the OEH must be notified under section 89A of the NPW Act. Appropriate management and avoidance or approval under a section 90 AHIP should then be sought if Aboriginal objects are to be moved or harmed.
- In the extremely unlikely event that human remains are found, works should immediately cease and the NSW Police should be contacted. If the remains are suspected to be Aboriginal, the OEH may also be contacted at this time to assist in determining appropriate management.





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