Aboriginal Cultural Heritage Management Plan

Bobs Farm Sand Mine

Tattersall Lander

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Endorsements

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1. DEFINITIONS/ACRONYMS

Aboriginal cultural heritage means all places and values of archaeological, traditional, spiritual, historical or contemporary significance within the area covered by this Aboriginal Cultural Heritage Management Plan. This definition is wide and is intended to cover the notion of cultural heritage as set in both state and federal legislation. In practical terms, this definition allows, for instance, recording of places which are archaeological sites (such as artefact scatters, stone arrangements, scarred trees and the like), any places which have traditional stories associated with them, places which are historically important (such as old camps) and places which are important today (such as good food-getting places or places used for recreational purposes). All cultural places and values identified will be accorded equal importance in deliberations.

Aboriginal Cultural Heritage Management Plan means this plan which constitutes the 'Aboriginal Heritage Management Plan' in fulfilment of the requirements cited by Heritage NSW in Bobs Farm Sand Mine Project (SSD_6395), Attachment A, part 7. The provisions of this Aboriginal Cultural Heritage Management Plan will apply to all extant Aboriginal archaeological and cultural heritage objects, sites and areas identified and recorded within the Project area including all previously identified and recorded Aboriginal archaeological and cultural heritage objects, sites and areas. This ACHMP also covers future or unexpected finds.

Aboriginal Cultural Heritage Management Plan (or ACHMP) Area means that portion of land proposed for mining under SSD_6395 as described & depicted in the maps in **Figure 1.**

Aboriginal Object/s are defined under the *National Parks and Wildlife Act 1974* 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'.

Aboriginal Stakeholders means Registered Aboriginal Parties and/or other Aboriginal community representatives being those individuals, corporations, groups and other entities registered for consultation with Tattersall Lander, principally through the auspices of Advitech Environmental.

Ground Disturbance Activity means:

(i) disturbance by machinery or other means of the topsoil or surface rock layer of the ground;
(ii) the removal of native vegetation by disturbing root systems and exposing underlying soil; and
(iii) otherwise disturbing the material or cultural integrity of an object, site or area of cultural heritage significance.

(NB: This definition applies to all land irrespective of whether or not the area has been previously disturbed - e.g. cleared of vegetation).

Project Area means the property footprint as specified in **Figure 1** of this ACHMP.

Site, cultural site or heritage site means any area/s, object/s or value/s of Aboriginal archaeological, traditional, spiritual, historical or contemporary significance.

1.1 Table of Abbreviations

ACHCRP	Aboriginal Cultural Heritage Consultation Requirements for Proponents
ACHMP	Aboriginal Cultural Heritage Management Plan
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
ASIRF	Aboriginal Site Impact Recording Form
DMO	Data Management Officer
DPIE	Department of Planning, Industry and Environment
DP&E	Department of Planning and Environment (now DPIE)
OEH	Office of Environment and Heritage (now Heritage NSW)
RAP	Registered Aboriginal Party

2. INTRODUCTION

Tattersall Lander Pty Ltd (Tattersall Lander) is undertaking the planning process for a sand mine at Bobs Farm on behalf of Ammos Resource Management Pty Ltd. The location is described as Lot 254 DP 753204, Lot 51 DP 1015671 and Lot 10 DP 1071458, Nelson Bay Road, Bobs Farm. The site is located approximately 25km east-northeast of the City of Newcastle near Salt Ash in the Port Stephens local government area (LGA), New South Wales (see **Figure 1**).

Ammos Resource Management Pty Ltd, is seeking State Significant Development Consent SSD14/6395 under Division 4.1 of Part 4 of the EP&A Act for the Project, which would involve the extraction of sand products providing applications for landscape, sports field top dressing, construction, fracking sand, bulk earthworks, bulk filling and glass manufacturing. Estimated yearly production is 750,000 tonnes per year, with a total potential excavatable resource of 10 million tonnes.

2.1 Project Approval Requirements

The Department of Planning and Environment (DPIE) was consulted in relation to the development proposal and the Director-General's Requirements (DGRs) for SSD14/6395 were issued on 21 March, 2014. For Aboriginal heritage, the DGRs required the completion of an Aboriginal Cultural Heritage Assessment.

As two years had passed from the release of the DGRs the Department was further consulted with a request for Secretary's Environmental Assessment Requirements (SEARs). SEARs were provided on 12 April, 2017.

Part 9 of the Environmental Impact Statement outlines the Aboriginal Cultural Heritage Assessment (ACHA) undertaken to assess the impacts of the proposed sand extraction mine on items of Aboriginal Heritage. This ACHA, conducted by AECOM, provided findings on the management and protection around Aboriginal cultural heritage on site, and these findings formed the basis of DPIE's (now Heritage NSW) response to the EIS in matters pertaining to heritage. This response was received on 25 January 2019.

DP&E's draft *Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation* (DEC 2005) detail the relevant statutory requirements for Aboriginal cultural heritage assessments conducted under Division 4.1 of Part 4 of the EP&A Act. OEH's *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010a) and *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011) provide supporting documentation to conduct Aboriginal Cultural Heritage Impact Assessments in NSW.

The ACHAR provided a management strategy to address potential impacts of the Project on known Aboriginal heritage sites and any additional heritage values present across the disturbance footprint. This strategy was recommended to be detailed in an ACHMP for the Project, and included the following elements:

- RAP monitoring of vegetation clearance activities;
- Inspection of stockpiled samples of reject screen material;
- An unexpected finds procedure;
- A skeletal remains procedure; and
- The development of an Aboriginal cultural heritage awareness training package for use throughout the life of the project.

The full ACHAR, including the above recommendations, is provided in **Appendix 1**.

Following the submission of the EIS, including the ACHAR, Heritage NSW responded with specific recommendations, drawing directly from the results of the ACHA:

Recommendation 6: Aboriginal cultural values and archaeological resource require further assessment

- Heritage NSW recommends that subsurface testing be undertaken in the relatively undisturbed Aeolian soil profiles associated with the Ridge 1 transgressive dune sheet identified in the geomorphological and archaeological assessments and at the previously recorded Aboriginal sites BF-SC4-14 and BF-SC5-14. Testing should be undertaken prior to project approval under the provisions of an Aboriginal Heritage Impact Permit.

  This has been completed.

Recommendation 7: An Aboriginal cultural heritage management plan should be developed

- Heritage NSW recommends that the results of the subsurface testing should inform the development of an Aboriginal cultural heritage management plan. The Management Plan should be developed in consultation with the registered Aboriginal parties and Heritage NSW.

  This ACHMP addresses this recommendation.

Recommendation 8: The Management Plan should include protocols for potential unidentified Aboriginal sites within the project area

- Heritage NSW recommends that protocols for the management of previously unrecorded Aboriginal objects should be included in the proposed Management Plan.

In accordance with these recommendations, Tattersall Lander engaged Advitech Pty Ltd to prepare both an AHIP for subsurface testing and an ACHMP based off the results and which encompass the recommendations put forward in the ACHAR and EIS response.

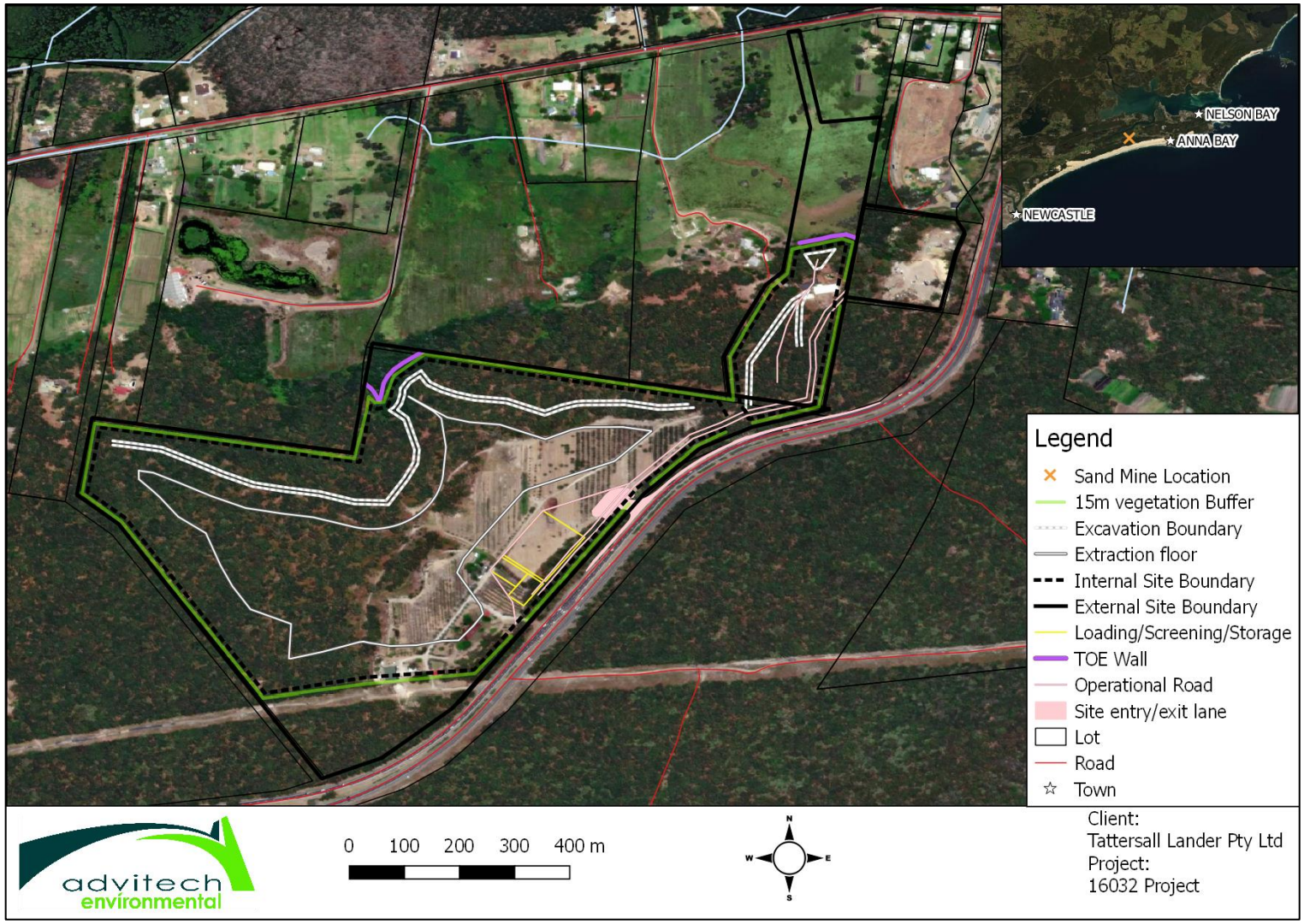


Figure 1: Location and plan of site map

3. BACKGROUND AND OBJECTIVES

3.1 Background Information

The Project area is situated within the Newcastle Bight embayment, the largest sedimentary basin of Quaternary age in the greater Port Stephens-Myall Lakes area (Thorn *et al.* 1992). The area is bounded to the south and east by Nelson Bay Road, to the north by Marsh Road, and by native bushland to the west (AECOM, 2015a). The Project area falls wholly within the boundaries of the Port Stephens LGA and is situated in the Parish of Tomaree in the County of Gloucester. The Project area covers registered Lots 10 DP1071458, Lot 254 DP753204 and Lot 51 DP1015671. The sand resource at the site has been found through assessment to be suitable for a range of uses. These vary from high purity glass sand through to fill sands, however, a large portion of the resource is of a quality suitable for glass and high-end technology screen and computer component manufacturing.

The Project area is currently an operating olive and fig farm, however due to the surrounding landforms and existing environmental constraints, expansion of the farm is not a viable option. Patra Holdings purchased the land prior to 2000 from the Worimi Local Aboriginal Land Council (AECOM, 2015b).

A previous assessment was undertaken and finalised in 2015 undertaken by AECOM (2015a). The report found 5 shell scatters on the site. The survey covered predominantly disturbed and cleared areas. Community consultation with Aboriginal representatives and the results of the survey recommended a salvage program, Aboriginal Cultural Heritage Management Plan, monitoring during vegetation clearance and inspections of rejected material. Heritage NSW made recommendations after the EIS was submitted in 2018 and this led to the 2019 ACHA and subsequent details leading to this ACHMP. The 2015 study by AECOM (2015b) also contained a historical assessment.

3.1.1 Results of 2020 ACHA

The Survey located shell and small bones across disturbed areas. The pedestrian survey was carried out in conjunction with three RAP groups that had previously been involved in the 2014 survey. Overall thirteen parties registered interest. The findings were consistent with past results and given the disturbed context can't be accurately assessed for cultural significance. Low visibility and low exposure across the less disturbed sections of the site potentially hindered survey efforts.

Effective coverage was considered low in all survey units due to the leaf letter/vegetation blocking visual inspection of the ground. Effective coverage equalled 6.55% due to low visibility (5-20%) and exposure (2-20%). On average transect width averaged 15m with range decreasing/increasing depending upon the density of vegetation. Some transect widths decreased to approximately 2-5m and others increased to approximately 20m. Overall, 17.8 km was walked across the proposed sand mine. The individual transects equated to 15.6 km effectively surveyed. Current disturbances on the property include agricultural (orchard) and pastoral practices (cattle), industrial (powerlines/transmission lines and corridor) and residential.

The registered AHIMS sites are shell that has likely been disturbed from the origin context. Other shell finds across the proposed sand mine site also appear to have a disturbed context. The current disturbances on the property include agricultural (orchard) and pastoral practices (cattle), industrial (powerlines/transmission lines and corridor) and residential. All finds have appeared within an area associated with one of these disturbances. Trees noted as having potential cultural modifications were reassessed during the test excavation and were not scar trees. Few bone fragments were present and do not appear to have the same origin as the shell as it is only found in orchard area. An intact bird skeleton was noted during the ACHA survey and predatory animals such as snakes were also seen, this leads to some speculation that the bones may be more recent than the shell deposits given the lesser

number of finds. Whilst the shell predominantly represents Whelk, Cockle and Oyster shells (as found in AECOM 2015 ACHA report (2014 survey), the disturbed context of shell reduces the archaeological value of the sites. This does not necessarily lower any cultural connections and any further investigation should aim to determine the extent of cultural integrity of the finds.

3.1.2 Results of AHIP and 2020 Test Excavation

This assessment relates to the Test Excavation and further field assessment associated with AHIP C0005692. The test excavation will be the predominant assessment method as per the recommendations of further investigations of the ridge 1 transgressive dune sheet. This includes two previously recorded sites BF-SC4-14 and BF-SC5-14 which were classified as shell scatters; however, additional test pits were opened across the broader Project area to obtain a comprehensive site context and to inform the management measures in an ACHMP as required. These additional test pit locations have been established following an Aboriginal Cultural Heritage Assessment field survey, and in consultation with Registered Aboriginal Parties (RAPs) in the field.

During the excavation, shell was found along tracks, predominantly on the ridge near test pit 2. However, previously and less frequently (one example) of shell was located on the southern side on the lower / waning slope of the dune and vegetated area. This was typical across the site during all recorded site expeditions. Typically, items are isolated on sandy exposed soil/tracks or on exposed soil in lightly revegetated areas, as well as in the orchard area. Only one test pit (Number 2 – 38-5-0352) uncovered subsurface shell. In spit 2 – 15 cm two pieces of shell where located. They were discovered during the sieving process. One piece was a cockle shell fragment and the second was a fragment with a small inner spiral, possibly from a Mud Whelk. In spit 3 – 25 cm one piece of cockle was located within the pit during the excavation in the northern centre half and one cockle fragment was located during the sieving.

The shell located in Pit 2 was relocated on site and reburied under as per requirement 26 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW.* The location is recorded the same as Test Pit 1.

3.2 Purpose and Scope of the ACHMP

This ACHMP has been prepared in accordance with the Heritage NSW response recommendations for the Project. The ACHMP has been prepared in consultation with the relevant Aboriginal stakeholders and has been referred to Heritage NSW for approval. Any updates or revisions to the ACHMP will also be forwarded to Heritage NSW.

This ACHMP applies to all activities undertaken within the Bobs Farm Sand Mine Project area. Tattersall Lander is responsible for implementing all aspects of the ACHMP for the duration of the project and will do so with consultation with the registered Aboriginal parties and a qualified archaeologist, where required.

The primary objectives of this ACHMP are to provide:

- A means for reporting, reviewing and communicating under the ACHMP with relevant RAPs;
- A methodology for use by RAPs and others for monitoring of vegetation clearance activities;
- Opportunity for RAPs to access the site periodically to inspect stockpiled samples of reject screen material;
- Obtain an AHIP prior to works;
- Provide an unexpected finds procedure;

- Provide a skeletal remains procedure, and
- Development of an Aboriginal cultural heritage awareness training package to be referred to throughout the life of the Project.

3.3 Department of Planning, Industry and the Environment

This ACHMP has been prepared in consultation with Heritage NSW. The EA for the project included details of the matters to be addressed by the ACHMP and this was the subject of comments by Heritage NSW. These comments have been taken into consideration in the preparation of the ACHMP.

On 16/04/19 during a telephone conversation with Gillian Goode (Heritage NSW), advice was sought around the development of a draft ACHMP. This query requested advice regarding consultation around the draft ACHMP and the appropriate Heritage NSW representative with which to consult. Recommendations arising from this conversation have been incorporated into this ACHMP.

A number of Acts of parliament provide for the protection of Aboriginal heritage at various levels of government. The three most important statutes in New South Wales are:

- Environmental Planning and Assessment Act (EP&A Act) 1979;
- National Parks and Wildlife Act 1974, and
- Heritage Act 1977

3.4 Legislative Context

3.4.1 EP&A Act

The EP&A Act 1979 requires that impacts to the environment, including cultural heritage, be considered at the planning and decision-making level. Aboriginal heritage is protected under this act in three ways:

- Regional Environmental Plans (REPs) and Local Environmental Plans (LEPs). These plans outline land use activities that are permissible, and also identify any potential constraints or issues.
- S228 of the EP&A Regulation (2000) lists impacts to the environmental resource, including cultural heritage, which must be considered before approval of the development is granted.
- All State Government agencies. As set out in the EP&A Regulations (1980), Part VII, all agencies acting as determining authorities must consider a range of community and cultural factors, including Aboriginal heritage.

3.4.2 New South Wales National Parks and Wildlife Act 1974

Amended during 2010, the National Parks and Wildlife Act 1974 provides for the protection of Aboriginal objects (sites, objects and cultural material) and Aboriginal places. Under the Act (S.5), an Aboriginal object is defined as:

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

An Aboriginal place is defined under the National Parks and Wildlife Act 1974 as an area that has been declared by the Minister administering the Act as a place of special significance for Aboriginal culture. It

may or may not contain physical Aboriginal objects. Under this Act it is an offence to knowingly damage, deface or cause or permit the destruction of an Aboriginal relic or place without the prior written consent of the Director-General of the NSW Heritage NSW. Prosecution for such offences may include the imposition of financial penalties and/or imprisonment. Reporting the discovery of previously unknown Aboriginal sites to the NSW Heritage NSW within a reasonable time of discovery is also obligatory.

3.4.3 Other Legislation

The Heritage Act 1977 (as amended) protects the State's natural and cultural heritage and contains measures to protect archaeological remains. Furthermore, there is a range of legislation that establishes requirements and responsibilities that may affect Aboriginal cultural heritage and therefore may be relevant to this ACHMP. These include:

- Noxious Weeds Act 1993 details the responsibilities of landholders to control specified and declared noxious weeds;
- Rural Fires Act 1997 delineates the circumstances under which the managers must undertake a hazard reduction burn;
- Native Vegetation Act 2003 relates to the sustainable management and conservation of native
- vegetation;
- Water Management Act 2000 relates to the sustainable and integrated management of water resources; and
- Hunter Water Act 1991 applies to water resources within the Chichester, Grahamstown, Nelson Bay, North Stockton and Tomago Catchment Areas.

It is a requirement that the works necessary in relation to these Acts do not adversely impact Aboriginal cultural heritage and thus contravene the NPW Act.

3.5 Environmental Context

3.5.1 Climate

The climate of the study area is located in the temperate climate zone (**Figure 2**). The mean temperature range record at (Nelson Bay is the closest station) is a maximum of 27.4°C and a minimum of 9.1°C, while mean rainfall is 157.9mm (high) and 78.1mm (low) further details in **Table 1** (BOM 2019).

Table 1: BOM Nelson Bay climate statistics – temperature 1914-2020, Rainfall 1881-2020 (red = high - blue = low)

Statistic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean max temperature (°C)	27.4	27.1	25.9	23.6	20.8	18.2	17.6	18.9	21.4	23.2	24.8	26.1	22.9
Mean minimum temperature (°C)	19	19.1	17.9	15.3	12.5	10.3	9.1	9.9	12	14.1	16	17.8	14.4
Mean Rainfall (mm)	99.8	112.5	117.7	129.3	149.6	159	136.7	101.5	89.6	77.9	79.6	92	1338.9

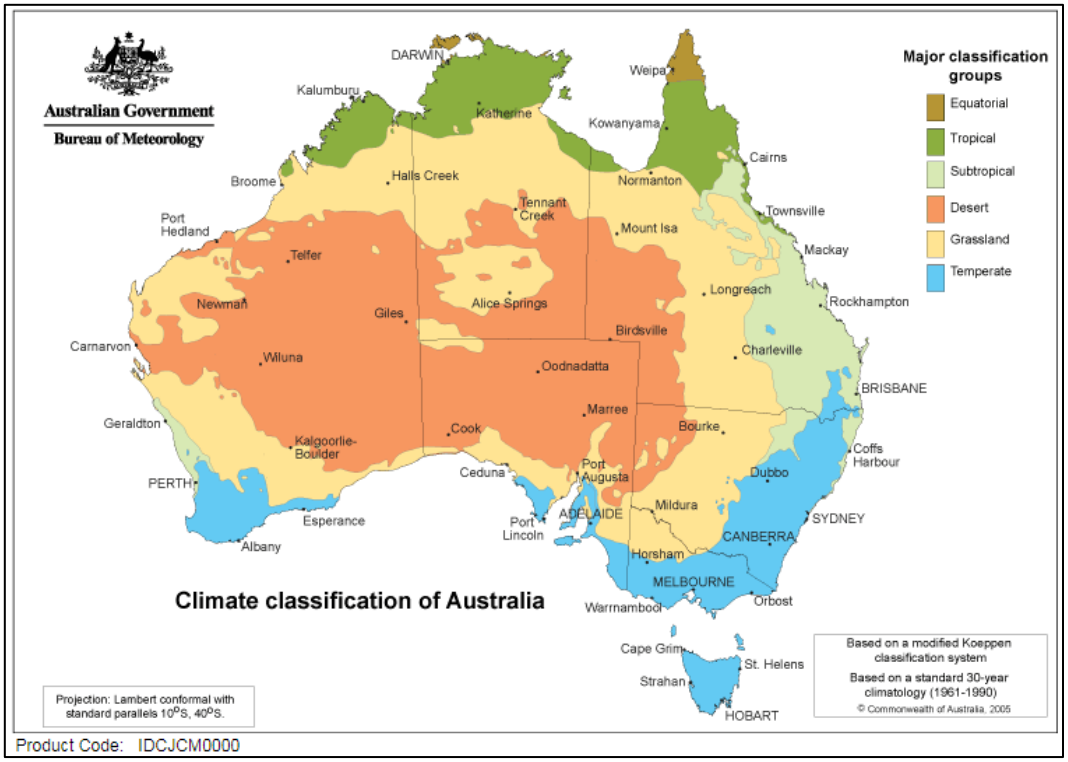


Figure 2: Climate classification map of Australia

3.5.2 Topography

The topography of the area relates to the inner and outer barriers and the depression between the two. The barriers are transgressive and stabilised dunes relating to the Pleistocene (inner) and Holocene (outer) McCardle CH 2012 p. 6). The site location as an approximate height maximum of 30m and drops to sea level in locations (see **Figure 3**). The site is located on the outer barrier boarding the depression.

3.5.3 Hydrology

The site is situated between the Pacific Ocean (approx. 2km) and Tilligerry Creek (approx. 1km). Tilligerry Creek connects to Karuah River. A non-perennial watercourse branching from Tilligerry Creek exists approximately 400m north of the main extraction area. 567m east of the smaller extraction area is another non-perennial watercourse, however no watercourse flow through the project area. The area is a part of the Karuah River and Great Lakes catchment which covers which covers 4,480 km² (Department of Industry n.d.) (see **Figure 3**).

3.5.4 Geology/Soils/Geomorphology

The Great Soil Group map (NPWS 2003) indicates the presence of siliceous sands, podzols and humic gleys within the study area. The geology of the area is classified as Quaternary containing gravel, sand, silt, clay, "Waterloo Rock" marine and freshwater deposits (Newcastle 1:250000 Geological Map).

The Port Stephens 1:25 000 Quaternary Geology Map Sheet indicates that the near surface geology of the project area consists principally of aeolian marine sands of Holocene antiquity (Qhbd), with saline swamp deposits (Qhes) also present but restricted to the north eastern portion of the site in association with the interbarrier depression's drained Holocene estuarine plain. No outcrops or deposits of stone(s)

suitable for the production of flaked stone artefacts are present within or immediately surrounding the project area. Soils within the project area have been mapped by Matthei (1995) and Murphy (1995) as belonging to the Boyces Track (bt), Hawks Nest (hn) and Bobs Farm (bf) soil landscapes. Dominant soil materials for these landscapes have been described as consisting of variably developed, well-to-poorly drained Podzols (bt and hn) and very poorly drained Humic Gleys (bf). In general, the aeolian bt and hn landscapes are characterised by deep (>1 m), highly permeable 'A' horizon soils, with well-differentiated A1 and A2 horizons (AECOM 2015, p.32). Fibrous peats and saturated sands can also occur in low lying, poorly-drained swales and depressions. Levels of soil development differ according to landscape position within the Outer Barrier, with the most strongly developed profiles occurring towards the rear (i.e., landward margin) of the sand mass (Matthei 1995: 206). Near surface soils in the estuarine Bobs Farm landscape normally consist of organic rich loams and estuarine clays, as well as peaty Humus Podzols that are sometimes present at the aeolian/estuarine interface (Matthei 1995: 188-189).

The Newcastle Bight embayment is known for the procurement and use of stone including fine-grained volcanic tuffs, often cream or grey. Sources of this are Newcastle Coal Measures, Tomago Coal Measures and Dalwood Group. Nobbys Tuff is an example of a common material.

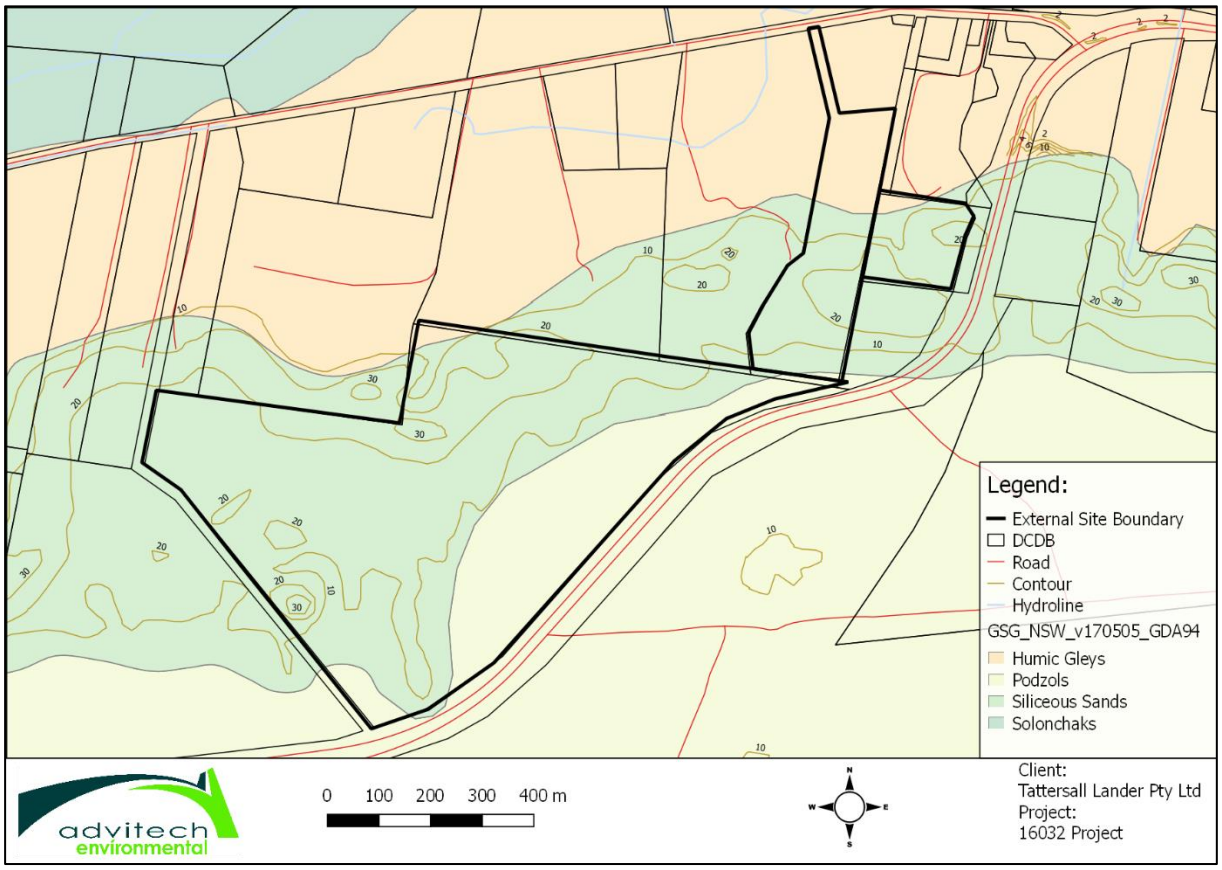


Figure 3: Soil Map with DCDB

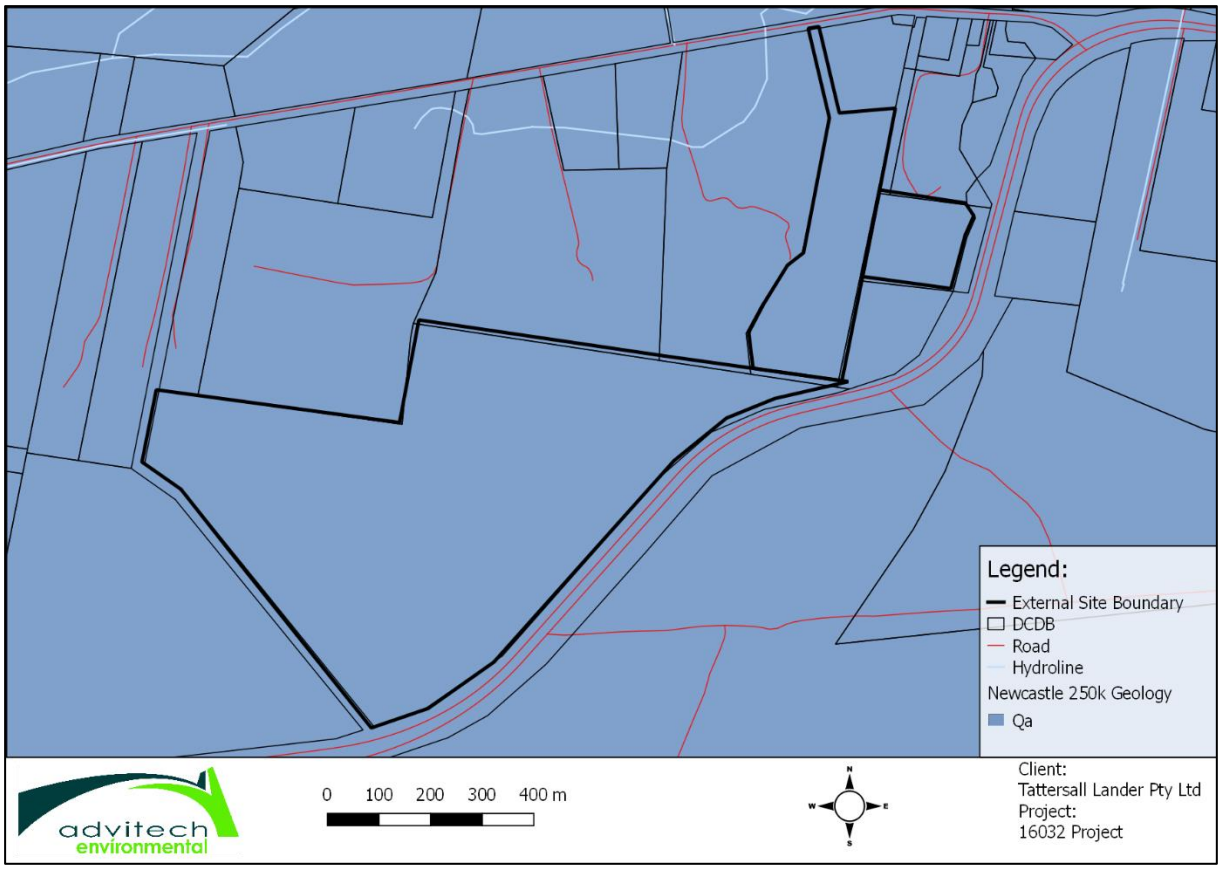


Figure 4: Geological map of the study area

3.5.5 Flora and Fauna

The majority of the landscape in the study area remains vegetated. The Subregion of NSW North Coast in the North Coast Bioregion is classified as having flora including:

> *Wet sclerophyll forest with white mahogany, small-fruited grey gum, Sydney blue gum, blackbutt, tallowwood and brush box. White gum, blackbutt, forest red gum and grey box on dry open flats. Dense Antarctic beech on Barrington Tops and patches of mixed cool temperature and warm temperature rainforest on Comboyne Plateau on basalt. Coastal complex of banksia, paperbark, smooth-barked apple, and blackbutt with numerous shrubs and areas of heath and swamp on dunes. Mangroves in estuaries. (NSW NPWS 2003 177).*

Significant flora and fauna in the region include logrunner, paradise riflebird, Albert's Lyrebird, Zieria prostrata and Elaeocarpus sp. Rocky Creek (*NSW NPWS 2003 p. 173).* The ecological report carried out as part of the Environmental Impact Statement outlined the study area was predominantly consisted of a tall dry open sclerophyll forest dominated by a canopy of Blackbutt and smooth-barked Apple (Wildthing 2018, p. 1). Habitat types (Wildthing 2018, p. 4) include:

- Dry sclerophyll forest (34.5 hectares)
- Swamp sclerophyll forest (1.15 hectares)
- Freshwater wetland (0.31 hectares)
- Orchard (9.6 hectares)
- Cleared open areas (4 hectares)

The study recorded eight threatened species with secondary evidence of a further two (Wildthing 2018, p. 3):

- Little Lorikeet
- White-bellied Sea Eagle
- Squirrel Glider
- Grey-headed Flying Fox
- Greater Broad-nosed Bat
- Eastern Falsistrelle
- Little Bentwing-bat
- Large Bentwing-bat
- Powerful Owl (secondary evidence)
- Koala (secondary evidence)

Appendix VII has a summarised guide of endangered species based on the Wildthing 2018 Biodiversity Report.

4. PROVISIONS OF THE ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

4.1 Purpose of and Area Subject to the ACHMP

This Aboriginal Cultural Heritage Management Plan (ACHMP) sets out the principles and processes under which Aboriginal cultural heritage will be managed across the Bobs Farm project area (SSD14/6395). The provisions of this ACHMP will apply to all extant Aboriginal archaeological and cultural heritage objects, sites and areas. This ACHMP will apply to all land located within the project area and will operate for the life of the mining activity.

4.2 Consultation

The Aboriginal cultural heritage assessment (ACHA) of the project area was completed in accordance with DP&E's *Draft Guidelines for Aboriginal Cultural Heritage Impact Assessment and Community Consultation* (DEC, 2005), as well as the Heritage NSW's Code of Practice and Consultation Requirements.

Consultation around the development of this ACHMP has been undertaken in accordance with Heritage NSW's *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010b). Consultation undertaken in relation to the ACHMP is detailed in **Appendix II** and is summarised below.

In 2014 six Aboriginal stakeholder groups previously registered an interest in being consulted regarding an Aboriginal cultural heritage assessment which was finalised in 2015 (AECOM 2015a). These groups are listed below:

- Worimi Local Aboriginal Land Council
- Carol Ridgeway-Bissett (previously Maaiangal Aboriginal Heritage Co-operative)
- Lower Hunter Aboriginal Incorporated
- Doo-Wa-Kee

- Mur-roo-ma Inc
- Nur-run-gee Pty Ltd

The EIS for Bobs Farm sand mine was not submitted until 2018 and Heritage NSW provided feedback requiring further consultation in 2019. As significant time had elapsed since the original assessment Heritage NSW verbally advised that a new ACHA assessment was required. Following the initial consultation phase, the groups listed below in **Table 2** registered an interest in the project and are referred to in this ACHMP as the relevant Aboriginal stakeholders.

For site participation RAPs listed in **Table 2** can participate in site work however, one participant per party is allowed. All RAPS can attend site visits, however, are expected to notify the site manager or relevant organiser of their intention to attend at least 14 days prior to visit.

It has been noted in the consultation of this ACHMP that the Worimi representatives involved in the project express grave concerns about non-Worimi interpretation of their heritage by other RAPs not representing the country of the project area. This has been made known to the archaeologist involved by email and conversation with Worimi LALC, Murrooma, Nur-Run-Gee and Karuah Indigenous Corporation. As for determining who is able to speak for country, as per the NSW consultation guidelines section 5.2 (p.15) it is only appropriate for Aboriginal people to determine who speaks for country and it associated cultural heritage. The ACHMP or consultation for Bobs Farm in no way wishes to remove this ability from the RAPs and will respect the determination of the community.

Table 2: Registered Aboriginal Parties

Party	Designated contact/s	Contact details
Worimi Local Aboriginal Land Council	Jamie Merrick and Andrew Smith	sites@worimi.org.au andrew@worimi.org.au
Mur-roo-ma Inc	Anthony Anderson and Bec Young	murroomainc1@gmail.com
Nur-run-gee Pty Ltd	Lennie Anderson	lennie.anderson011@bigpond.com
Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	corroboreecorp@bigpond.com
Murra Bidgee Mullangari	Ryan Johnson	murrabidgeemullangari@yahoo.com.au
Worimi Traditional Owners Indigenous Corporation	Candy Towers	worimitoc@hotmail.com
Didge Ngunawal Clan	Paul Boyd and Lilly Carroll	didgengunawalclan@yahoo.com.au
Widescope	Steven Hickey	Widescope.group@live.com
Karuah Indigenous Corporation	Dave Feeney	indigenouskaruah@outlook.com
A1 Indigenous Services	Carolyn Hickey	Cazadirect@live.com
Divine Diggers Aboriginal Cultural Consultants	Deidre Perkins	dedemaree3@hotmail.com
Worimi Aboriginal Cultural Services	Tamara Towers	worimiacs@gmail.com

Lower Hunter Wonnarua Cultural Services	Lea-Anne Miller	lhwcs.lea@gmail.com

4.2.1 Draft ACHMP/Consultation Updates

Table 3: Comments from RAPs on draft ACHMP

Party	Date	Comment
Murra Bidgee Mullangari	23.7.20	No comment will be provided
Divine Diggers Aboriginal Cultural Consultants	24.7.20	No comment will be provided
Mur-roo-ma Inc	4.8.20	Regular inspections (monthly or less need to be included. Supports Worimi LALC being care holders.
Worrimi LALC	5.8.20	Worimi Local Aboriginal Land Council agree with the ACHMP but we would like to be there for any tree clearing and any ground disturbance and monthly or sooner inspections of stockpiles and the screened material. In later correspondence Worimi agreed to be custodians for salvaged items.
Nur-run-gee Pty Ltd	30.9.20	Objected to all RAPs being involved especially if they don't have local knowledge. Objects to proposed roster system.
Mur-roo-ma Inc	6.10.20	Objected to voluntary proposal, All RAPs being involved. Supported Worimi LALC caring for salvaged objects. Objects to project in general.
Mur-roo-ma Inc	7.10.20	Notes changes to revised plan, still concerned about non-Worimi RAPs being able to speak for country. Requested meeting.
Nur-run-gee Pty Ltd	7.10.20	Noted multiple complaints about ACHMP. Objected to all RAPs being involved especially if they don't have local knowledge. Only the four recognised groups should be allowed on site Worimi LALC, Murrooma Inc, Nur-run-gee and Karuah Indigenous Corp. Requests meeting.
Worimi LALC	8.10.20	Andrew Smith Objects to voluntary system suggested earlier. Objects to not community recognised RAPs being involved, Concerned about ongoing Aboriginal community involvement in project.
Mur-roo-ma Inc	9.10.20	Inquired about participants for meeting on 13 October 20. Wants to discuss future of sand mine and

		further employment opportunities. Said available after lunch on 13th.
Divine Diggers Aboriginal Cultural Consultants	12.10.20	Responded saying unable to attend meeting.
Karuah Indigenous Corporation	12.10.20	Wished to confirm that his party was a registered party.
Worimi Traditional Owners Indigenous Corporation	13.10.20	Unable to attend, requested meeting minutes kept.
Nur-run-gee Pty Ltd	13.10.20	Notified that unable to connect - internet fault. Said would speak with Murooma and WLALC. Requested copy of meeting notes.
Worimi LALC	15.10.20	Apologised no one from LALC in attendance at meeting. Andrew noted he did not receive an invite (sent to original email registered with project). Requests his email be added to Worimi LALC designated contact.
Karuah Indigenous Corporation	21.10.20	Supports ACHMP, confirmed previous sentiment about Worimi being the people to represent country.

4.3 Roles, Responsibilities and Timeframes

The roles, responsibilities and timeframes outlined below were agreed upon during the consultation phase of the ACHMP.

Table 4: Roles, Responsibilities and Timeframes

Party	Role	Responsibilities	Timeframe
Mine operator	Operations and CH site management	a) Compliant with ACHMP and CH site management b) Finds procedure c) Daily management of ACHMP/site	a) At all times b) When unexpected finds occur c) At all times
RAPs	On-going consultation	a) Consultation within permitted timeframes or negotiation/notification of estimated timeframe b) Assistance with onsite management of sites when requested c) Update of contact details if they change d) Provide forward notice of site visits (per ACHMP) and correspond with site procedures	a) Within 14 days b) In negotiation of required time and availability c) Within a reasonable timeframe (people may miss consultation if update does not occur) d) Within 14 days
Archaeologist	Consultation when and if required	a) Complete relevant reports and government consultation b) Facilitation of client and RAP consultation when required	a) Within a reasonable timeframe discussed with client b) Within a reasonable

	timeframe discussed with client

4.4 Dispute Resolution

If an issue occurs the person/group should inform the designated person (site manager) in writing about the complaint. The procedure is:

- Receipt of complaint;
- Designated person investigates complaint and responds to the person/group in writing;
- Follow up correspondence two weeks after response if a response from complainant not received in that time;
- If response is not deemed satisfactory by the complaint the matter may be referred to an independent dispute facilitator if further consultation fails to resolve the issue.

Records should be kept of any complaints and actions/correspondence undertaken to resolve the issue.

4.5 Management of Aboriginal Objects

The management of collected Aboriginal objects (e.g. artefacts) has been considered for both the short and the long term. An Aboriginal Site Impact Recording Form (ASIRF) will be completed for any Aboriginal objects/sites located within the ACHMP Area that are salvaged under the provisions of this ACHMP and AHIP.

Aboriginal objects removed from the ACHMP area under the provisions of this ACHMP and AHIP will be appropriately contained and securely stored at a suitable storage facility, as agreed upon in consultation between Advitech, the Registered Aboriginal Parties and as approved by Heritage NSW.

Alternatively, there may be provision to rebury the salvaged material in a suitable location within the property outside of the disturbance footprint.

4.6 Cultural Heritage Inductions

As part of site inductions, personnel should be made aware of Aboriginal heritage legislative obligations, the ACHMP and a brief introduction to potential types of heritage they may encounter (see **Appendix III**).

4.7 Care and Control Agreement

The keeping location should be agreed upon by the RAPs in consultation with the Proponent, Ammos Resource Management Pty Ltd. This is especially important if RAPs decide that the best decision would be to store the salvaged heritage items on site. An appropriate storage location and storage vessel would need to be arranged. If the ACHMP is reviewed at any point during the lifespan of the project and a variation to the Care and Control Agreement is sought, all parties involved in the project will have to agree and seek approval from the Government regulator. A record of salvaged heritage items is in **Appendix IV**. It is anticipated that at the end of the project that an updated Care and Control Agreement may be required depending upon the long-term location and proposed actions for the land.

Table 5: Approved Care and Control Agreement Location

Custodian	Location	Duration	Contact details
Worimi Local Aboriginal Land Council	Land Council Office	Life of Project with potential renegotiation at end of project	Refer to **Table 2**

4.8 Safety protocol and Insurance

The safety protocol should include personal protect equipment. Spare equipment will not necessarily be available on site. If RAPs or other visitors to site do not have the correct PPE they will not be allowed on site. For RAPs engaging in fieldwork appropriate insurances will be required including:

- Workers compensation; and
- Public liability.

Other safety factors that need to be considered including COVID-19 safety. Prior to fieldwork or meetings government guidelines for Covid-19 should be checked. Following this check, if you are still uncertain or have concerns after reviewing Covid-19 guidelines please contact the meeting or fieldwork organiser to discuss.

If people have questions about the safety protocol before upcoming site work please contact the company, fieldwork convenor or site office before the day of fieldwork. Site inductions and a signing a visitor log may be required on the day.

5. ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN STRATEGIES

This section of the management plan aims to establish the strategies around effective management of Aboriginal cultural heritage within the Bobs Farm project area. These strategies have been developed in alignment with the ACHA recommendations and Heritage NSW EIS response requirements.

5.1 Strategies for Recorded Archaeological Sites and PADs

Ammos Resource Management Pty Ltd and their representatives, in consultation with the RAPs and Advitech, will be responsible for ensuring that previously identified archaeological sites across the project area are protected from impacts associated with the proposed activities. If protection is not possible, they will be managed under an AHIP or under the measures below through the SSD status. The measures are:

- Surface collection;
- Salvage excavation;
- Unexpected finds;
- Human skeletal material;
- Site records and impact register.

See **Section 6** for further details.

5.1.1 Shell Scatters BF-SC1-14 to BF-SC5-14

Sites BF-SC1-14 to BF-SC5-14 has been investigated in accordance with AHIP C0005692.

5.1.1.1 38-4-2016 (BF-SC1-14)

This site was labelled as test pit 5. It reached a depth of 60 cm. The site had no cultural finds. A small amount of charcoal was located in spits two to six.

5.1.1.2 38-5-0350 (BF-SC2-14)

This site was labelled as test pit 4 and reached a depth of 85 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spits two and three.

5.1.1.3 38-5-0351 (BF-SC3-14)

This site was labelled as test pit 3, which reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spit two.

5.1.1.4 38-5-0352 (BF-SC4-14)

This site was labelled as test pit 2 and reached a depth of 55 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. In spit 2 – 15 cm two pieces of shell were identified during the sieving process. One piece was a cockle shell fragment and the second was a fragment with a small inner spiral, possibly from a Mud Whelk. In spit 3 – 25 cm one piece of cockle was located within the pit during the excavation in the northern centre half and one cockle fragment was located during the sieving. At further depths no other shell contributions were located. One tiny piece of white stone was located as an inclusion in spit 4 – 35 cm, no diagnostic marks of human tool manufacture existed.

5.1.1.5 38-5-0353 (BF-SC5-14)

This site was labelled as test pit 1 and reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spits two to six. The original shell located in 2014 was not relocated, however a downed tree was across part of the site.

Should these sites remain listed as shell scatters/middens, they will be salvage excavated in accordance with **Section 8.1.2.**

5.1.1.6 Interpretation

The results of the test excavation have shown limited evidence of past Aboriginal land use and this is likely due to a number of factors including:

- The project area may have been used for travel and/or hunting and gathering which manifest in the archaeological record as very low-density artefact scatters and/or isolated finds;
- Past and present land uses would have displaced and/or destroyed evidence of past Aboriginal land use;
- The locations of testing include disturbed areas due to the recorded presence of shell and factored in locations where items have been recorded, items when originally disturbed may have travelled due to natural soil movement or animal or human impacts;

- Given the nature of the site the sample of test excavations show that there is a low potential for surface finds to translate to subsurface deposits;
- The charcoal found in all pits as well as evidence of burnt roots and evidence of burning on trees in the project area suggest bushfire or human related burning, not campfires due to sparse concentration in the test pits;
- Shell is a common item on registered on AHIMS in the region; and
- The edible nature of the species of shell suggest the potential for human involvement for being found in their current locations.

Shell located 38-5-0352 was reburied on site at location:

Table 6: Artefact Reburial Details.

Burial Depth	25 cm
Location description	Test Pit 1
Landscape features	Fallen tree across revegetated track, pink flagging tape on boundary fence approximately 6 metres west from the fence.
Coordinates WGS 84 Zone 56	Easting: 406919 Northing: 6373526

5.2 Unexpected finds

Any newly identified Aboriginal Cultural Heritage objects, sites or places located within the ACHMP area will be protected with an initial 20m buffer (where physically possible to do so) around the site until the RAPs and archaeologist have been given an opportunity to inspect and agree on the site type and extent, and salvage the site/s in accordance with **Sections 6.1** and **6.2.**

A Heritage NSW AHIMS site card is to be completed and submitted to Heritage NSW for each newly identified Aboriginal Cultural Heritage site or aggregation of sites, and an ASIRF submitted during salvage.

5.3 Human Skeletal Material

Where identified or possible human skeletal remains are discovered within the ACHMP area then the NSW Government sanctioned process for management of skeletal remains will be implemented. Details of the process for management of the discovery and reporting of skeletal remains are outlined in **Section 6.5** of this ACHMP.

5.4 Review of the ACHMP

Should any changes or modifications to the approved activities within the project area be sought, a review of this ACHMP may be necessary. This review will be undertaken in consultation between RAPs, Tattersall Lander and Advitech. Items that could trigger a review include:

- Amendment to site; and
- Time since last review (minimum 5 years).

5.5 Sites records and impact register

Tables 6 and **7** indicate records of AHIMS sites located in the 2014 ACHA survey. **Figure 5** shows the locations within the site boundary. These tables can be updated throughout the life of the project to represent the impact status. The AHIMS sites are listed as Valid in the September AHIMS Extensive

Search. The Points of Interest are currently listed as Valid/partially destroyed due to the high level of disturbance yet new discovery in the ACHA 2019 survey.

Table 7: Site records and impact register

Site	Location (Latitude/longitude GDA 84)	Impact Status (valid, partially destroyed, destroyed (update when required))
BF-SC1-14	-32.774051 / 152.000173	partially destroyed
BF-SC2-14	-32.774540 / 152.001555	partially destroyed
BF-SC3-14	-32.774185 / 152.002179	partially destroyed
BF-SC4-14	-32.772249 / 152.002659	partially destroyed
BF-SC5-14	-32.772232 / 152.006151	partially destroyed

6. METHODOLOGIES

6.1 Surface Collection of Isolated Artefacts or Artefact Scatters

A general salvage collection methodology is suggested for isolated artefacts or artefact scatters on the surface. A salvage methodology should include the following measures:

- Each isolated artefact or site group of isolated artefacts will be collected in a manner that is consistent with the agreed mitigation methodology as provided to RAPs by Advitech prior to any salvage program.
- The methodology is to include the following procedures:
  - Recording: at a minimum, noting the number of artefacts, artefact type (e.g. flake, blade, core etc.) and material, GPS coordinates, photographs with scale bars and site density (5+ artefacts within 1m^2 constitute an artefact scatter).
  - Bagging: Clear plastic bags should be used, with unique site identifiers (site names), date of salvage, and project is to be captured.
  - Tagging: tags should be included in each discrete bag, containing the unique site identifiers (site names), and date of salvage as a minimum. Details should also be written on the bag exterior. Tags are to be either affixed to the artefact bag/s or included with the relevant artefacts inside the bags.

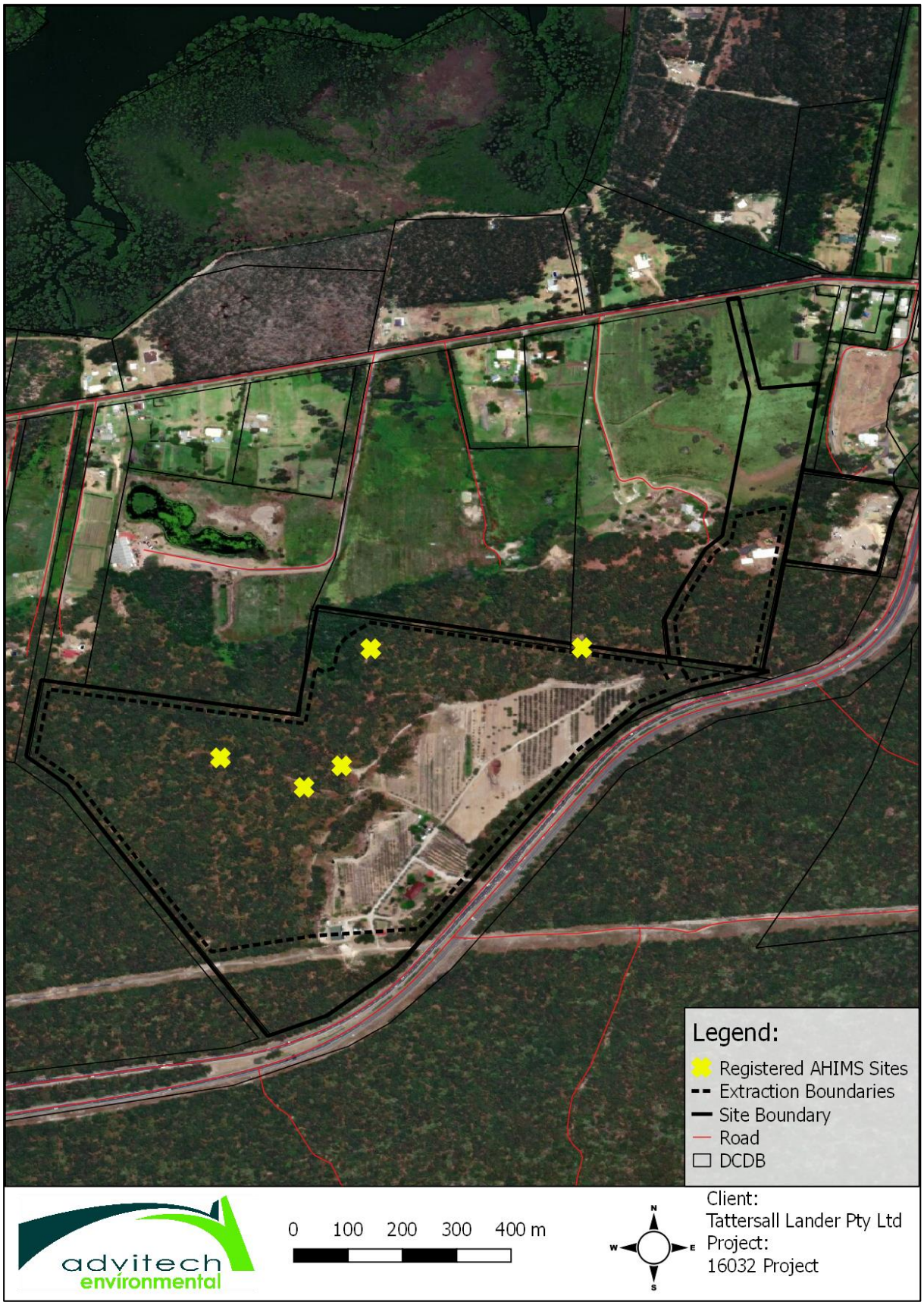


Figure 5: AHIMS sites

6.2 Methodology for Salvage Excavations

A methodology for the salvage excavation is set out below. Prior to any salvage excavation, a review of the methodology will be undertaken in collaboration with the RAPs to determine the most appropriate method for the expected salvage.

- Excavations must be excavated using hand tools only;
- Excavation area is to be clearly defined and demarcated by an archaeologist and the RAPs;
- Pits will measure $1m^2$ or $50cm^2$. $1m^2$ pits will comprised of 50 centimetres by 50 centimetres quadrants;
- It may be appropriate to place the pit design on a grid pattern, such as a 5m grid interval. The size would depend on the salvage area;
- Excavation units will be dug to a minimum of 30 centimetres in depth and to a maximum of 100 centimetres in depth. This nominal depth is to ensure the safety of persons on site and minimise the risk of collapse/slumping of the trench walls. If necessary, satellite pits may be dug surrounding the primary test pit to ensure stepped upper layers to further minimise risk to persons;
- The first excavation unit must be excavated and documented in 5cm spits at each area being investigated. Based on the evidence of the first excavation unit, 10cm spits or sediment profile/stratigraphic excavation (whichever is smaller) may then be implemented;
- All excavated materials will be passed through a sieve with 3mm aperture (or as the soil texture and moisture allows e.g. 5mm sieve);
- Photographic/scale-drawn records of the stratigraphy/soil profile, features and information will be kept for the salvage excavation;
- Excavation units must be backfilled as soon as possible;
- Following excavation, an Aboriginal Site Impact Recording form must be completed and submitted to the AHIMS Registrar as soon as practicable, for each AHIMS site that has been salvage excavated in accordance with the requirements of this Code;
- Objects salvaged during the excavation may be retained in a temporary storage location pending long-term management of the salvaged Aboriginal objects as detailed in the ACHMP. The location of this storage location will be discussed and agreed upon with consultation between RAPs, Advitech and Heritage NSW; and
- An updated AHIMS site card will be submitted for each excavated site, and if necessary, new site cards submitted for additional finds.

6.3 Scarred Tree Verification and Management Process

The purpose of a verification process is to determine whether potential or likely scars identified across the Project Area are of Aboriginal cultural origin. The verification process should include the following, and applies to trees identified during inspection or during clearing of vegetation:

- Disturbance works in the vicinity must immediately cease to ensure no additional or accidental damage occurs to any potential scarred tree;
- Relevant RAPs and qualified archaeologist will be contacted to assess each potential scarred tree. Relevant RAPs will be a RAP identified as identified in **Section 4.2**;

- A pro-forma assessment form will be completed for each tree to record any scientific evidence for validating said tree. This is to be signed by the RAPs present and archaeologist (if in attendance); and
- The management of the tree will be discussed in consultation with RAPs; with removal of the tree to a suitable location as identified by the RAPs (and Heritage NSW may be required). The NSW Scarred Tree Manual and Heritage NSW should be consulted prior to relocation to determine the most appropriate method.

6.4 Hearths Verification and Management Process

The purpose of a hearth verification process is to determine whether a feature that has been recorded as a hearth is of Aboriginal cultural origin. Verification should follow the following procedures:

- Disturbance works in the vicinity must immediately halt to ensure no additional or accidental damage occurs to the potential hearth.
- Relevant RAPs and qualified archaeologist will be contacted to assess each potential hearth for its cultural status. Relevant RAPs will be a representative/s from the identified RAPs in **Section 6.2.**
- A site card and pro-forma assessment form will be completed for each hearth. This is to be signed by the RAPs and archaeologist (if in attendance).
- In consultation with RAPs, the management of the hearth will be discussed; recommendations specific to the hearth may be given, including whether the hearth should be excavated, and where viable, if carbon material samples can be collected for possible radiocarbon or other suitable dating analysis.

6.5 Management of Human Skeletal Remains

If human skeletal remains are discovered within the ACHMP area the following legislations should be followed:

- Coroners Act 2009 (NSW);
- Crimes Act 1900 (NSW and Federal Crimes Act 1914; and
- National Parks and Wildlife Act 1974 (NSW).

If a discovery was made the NSW Government sanctioned process for management of skeletal remains (as specified in Requirement 25 'Aboriginal Ancestral Remains' in the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW*) will be implemented. The following actions are to be undertaken immediately should identifiable or possible human skeletal remains be discovered.

- All works taking place in the immediate vicinity of the find must stop immediately. The find and surrounding area is to be secured (at least a 20-metre radius buffer) to prevent interference, as the find may be a crime scene.
- The individual/s who make the discovery are to immediately contact their supervisor and report the find. The supervisor will contact the senior management on site; it is the senior manager's responsibility to report the find to police.
- The police will determine if the identifiable or possible human skeletal remains are associated with a crime scene, or are possible Aboriginal or historical archaeological remains. If determined by police to be Aboriginal or historical archaeological remains, the police will

contact Heritage NSW to provide written confirmation of the archaeological status of the find. If it is determined to be a police matter, personnel are to follow the instructions of the police.

- If Heritage NSW confirms that the remains are believed to be Aboriginal or historical archaeological in origin then the supervisor who reported the find is to notify the on-call archaeologist. Dependent upon written advice received from Heritage NSW, work may recommence in the area, or further management actions may need to be implemented.
- Any resulting cultural heritage management activities associated with the find/s will be conducted with consultation and endorsement by the relevant RAPs as identified in **Section 6.2** of this ACHMP. Aboriginal stakeholders will be notified and consulted as soon as practical and possible to do on the find of human skeletal remains and will ensure that the RAPs remain informed of outcomes.

6.6 Land clearing

Given the low visibility and exposure across the site during the 2014 and 2019 field surveys, when land clearing occurs it may be appropriate to consult with RAPs regarding monitoring and potential salvage of items. The contact can be arranged directly using the details in **Table 2** or be arranged through a heritage consultant if the operator wished to engage a third party to facilitate. Correct safety procedures should be followed and if RAPs do not have the correct PPE they will not be allowed to participate in fieldwork (refer to **Section 4.8**).

6.7 Spoils inspection

Inspection of spoil material by RAPs can occur on the first working day of the month. The RAPs (one per party per visit) should make a time a minimum of 14 days prior to inspection with the site supervisor which should be the first working day of the month. Contact with RAPs can be arranged directly using the details in **Table 2** or be arranged through a heritage consultant if the operator wished to engage a third party to facilitate. Correct safety procedures should be followed and if RAPs do not have the correct PPE they will not be allowed to participate in fieldwork (refer to Section 4.8).

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APPENDIX I: 2020 Advitech ACHAR and Test Excavation Report



Report

Bobs Farm Sand Mine

Aboriginal Cultural Heritage Assessment

Tattersall Lander

30 January, 2020
Rev 5 (Final)

Report Details

Bobs Farm Sand Mine - Aboriginal Cultural Heritage Assessment

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History

Date	Revision	Comments
4 September, 2019	0	Draft Issue for Client Review
11 September, 2019	1	Draft for RAP Review
14 October, 2019	2	Final Report
23 October, 2019	3	Revised Issue with additional information for AHIP lodgement
6 January, 2020	4	Revised Issue with additional RAP comment, Figure 17 and Appendix VII
30 January, 2020	5	Revised Issue after critical review

Endorsements

Function	Signature	Name and Title	Date
Prepared by		Jake Brown Archaeologist	30 January, 2020
Authorised and Checked for Release by		Dr Rod Bennison Lead Environmental Scientist	30 January, 2020

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EXECUTIVE SUMMARY

Advitech Pty Limited (trading as Advitech Environmental) was engaged by Tattersall Lander to undertake further archaeological assessment at the proposed Bobs Farm Sand Mine. The field assessment (following DPIE recommendations) was carried out to augment a survey undertaken in 2014 and continued community consultation with former and new Registered Aboriginal Parties (RAPs). The survey on the 26 and 27 August, 2019 located shell and small bones across disturbed areas, as well as potential cultural modification of trees. The pedestrian survey was carried out in conjunction with three RAP groups (all involved in the 2014 survey); overall thirteen parties registered interest. Findings were consistent with past results and given the disturbed context cannot be accurately assessed for cultural significance. Low visibility and low exposure across the less disturbed sections of the site potentially hindered visual effectiveness of the survey.

Effective coverage was considered low in all survey units due to the leaf letter/vegetation blocking visual inspection of the ground. Effective coverage equalled 6.55% due to low visibility and exposure. On average, transect width averaged 15m with range decreasing/increasing depending upon the density of vegetation. Some transect widths decreased to approximately 2-5m and others increased to approximately 20 m. Overall, 17.8 km was surveyed across the proposed site. The individual transects equated to 15.6 km effectively surveyed. Current disturbances on the property include agricultural (orchard) and pastoral practices (cattle), industrial (powerlines/transmission lines and corridor) and residential.

Following the survey and ongoing consultation with DPIE in regards to their determination of the project, it is the recommendation of this report that a AHIP be sought and subsurface testing be undertaken at targeted locations across the site. This should be undertaken in consultation with RAPs and DPIE. Further to this, once results from subsurface testing have determined the level of likely impact and following DPIE advice, an Aboriginal Cultural Heritage Management Plan should be drafted and approved by DPIE and RAPs. This should include an unexpected finds procedure, storage location for any salvaged items and a potential inclusion of cultural monitoring when initial vegetation clearing occurs after the project approval under State Significant Development status.

The potential impacts to the site could affect:

- Registered AHIMS sites;
- Unknown sites;
- Sites lacking proof of origin; and
- Intangible connections.

The registered AHIMS sites are shell fragments likely to have been disturbed from the origin context. Other shell finds across the proposed sand mine site also appear to have a disturbed context. Trees noted as having potential cultural modifications did not appear to have axe marks visible, though the majority of suspect trees were hollow and did not have a dry face, as well as having evidence of fire, pest damage and recent human damage (metal peg/nail) (discovered bone fragments were in low frequency, however may not have the same origin as the shell as they were only found in the orchard area). An intact bird skeleton was noted during the ACHA survey and predatory animals such as snakes were also seen, this leads to some speculation that the bones may be more recent than the shell deposits given the lesser number of finds. Whilst the shell predominantly represents Whelk, Cockle and Oyster shells (as found in AECOM 2015 ACHA report (2014 survey)) and these have been recorded as being a food source, the disturbed context of shell finds is predicted to lower the archaeological values of the finds. This does not necessarily lower any cultural connections and any further investigation should aim to determine the extent of cultural integrity of the finds.

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APPENDICES

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1. INTRODUCTION

Advitech Pty Limited (trading as Advitech Environmental) was engaged by Tattersall Lander to undertake an Archaeological assessment at the proposed Bobs Farm Sand Mine. The original ACHA was called into question by Department of Planning, Industry and Environment (DPIE) Newcastle due to having been completed in 2015 and suggesting the site had low to moderate heritage values.

It should be noted that this report was prepared by Advitech Pty Limited for Tattersall Lander ('the customer') in accordance with the scope of work and specific requirements agreed between Advitech and the customer. This report was prepared with background information, terms of reference and assumptions agreed with the customer. The report is not intended for use by any other individual or organisation and as such, Advitech will not accept liability for use of the information contained in this report, other than that which was intended at the time of writing.

1.1 The Proposed Bobs Farm Sand Mine

Advitech was engaged to fulfil the requirements DPIE recommended based on the previous 2014 Aboriginal Cultural Heritage Assessment (ACHA) review in 2019 to undertake an Aboriginal Cultural Heritage Assessment to fulfil the DPIE requirements of further consultation. The consultation undertaken in this assessment engages new and past Aboriginal parties who have expressed an interest in the project. The project aims to further investigate the project area and cover additional ground to the 2014 assessment. The project aims are to complete the new ACHA and use this to assist in the lodgement of an AHIP to fulfil the test excavation recommendation from DPIE.

1.2 Purpose of this Assessment Report

The purpose of this report is to assess potential Aboriginal heritage issues from the operation and construction of the proposed quarry and, where required, identify feasible and reasonable mitigation measures. The proposal is designated development under Part 4 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) and, as such, this statement has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs).

1.3 Secretary's Environmental Assessment Requirements

This report will be appended to an Environmental Impact Statement (EIS) which must comply with the requirements of Clause 6 and 7 of the Environmental Planning and Assessment Regulation 2000, and which addresses environmental considerations identified in the Secretary's Environmental Assessment Requirements (SEARs) (SSD 6395) relevant to heritage. The SEARs state that the heritage assessment should be undertaken with a view to the:

- *an assessment of the potential impacts on Aboriginal heritage (cultural and archaeological), including evidence of appropriate consultation with relevant Aboriginal communities/parties and documentation of the views of these stakeholders regarding the likely impact of the development on their cultural heritage…, having regard to the relevant policies and guidelines*

Those relevant policies and guidelines listed in Attachment 1 are:

- The Burra Charter (The Australia ICOMOS charter for places of cultural significance);
- Draft Guidelines for Aboriginal Cultural Heritage Assessment and Community Consultation (DP&E);
- Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH); and
- Port Stephens LEP 2013.

Further, in regards to Aboriginal heritage, DPIE provided recommendations to inform the SEARs:

- *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 the EIS. This may include the need for surface survey and test excavation. The identification of cultural heritage values should be guided by the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011) and consultation with DPIE regional officers.*
- *Where Aboriginal cultural heritage values are identified, consultation with Aboriginal people must be undertaken and documented in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW). The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS.*
- *Impacts on Aboriginal cultural heritage values are to be assessed and documented in the EIS. The EIS 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 DPIE.*

Project specific recommendations

DPIE reviewed the previous 2015 report and recommended the following:

- *DPIE recommends that subsurface testing be undertaken in the relatively undisturbed Aeolian soil profiles associated with Ridge 1 transgressive dune sheet identified in the geomorphological and archaeological assessments and at the previously recorded Aboriginal sites BF-SC4-14 and BF-SC5-14. Testing should be undertaken prior to project approval under the provisions of an Aboriginal Heritage Impact Permit.*
- *DPIE recommends that the results of the subsurface testing should inform the development of an Aboriginal cultural heritage management plan. The Management Plan should be developed in consultation with the registered Aboriginal parties and DPIE.*
- *DPIE recommends that protocols for the management of previously unrecorded Aboriginal objects should be included in the proposed Management Plan.*

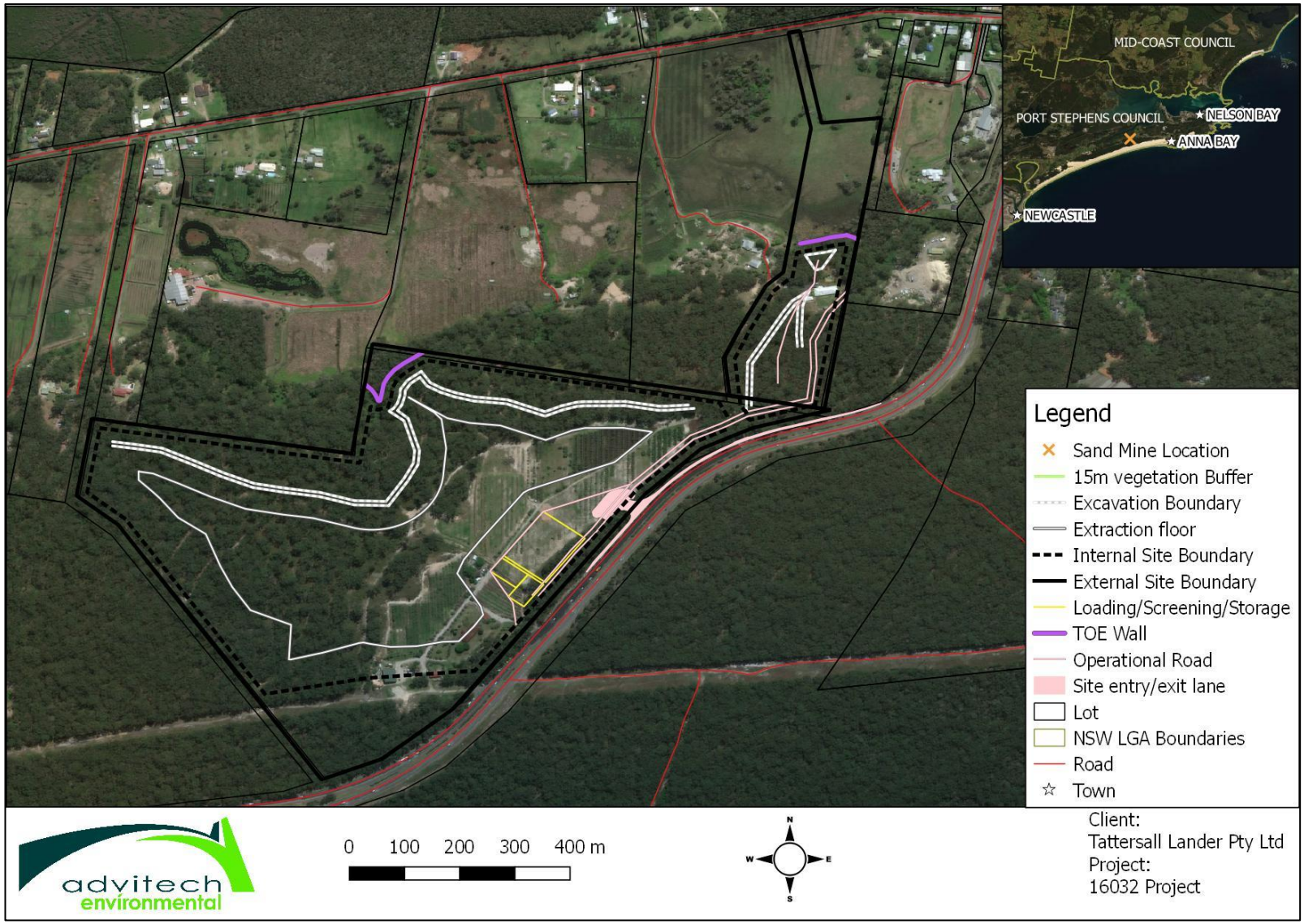


Figure 1: Site Location Map

1.4 Planning Context

1.4.1 Environmental Planning and Assessment Act 1979

Development in NSW is subject to the requirements of the *Environmental Planning and Assessment Act 1979* (EP&A Act) and its associated regulations and planning instruments. Developments requiring consent, such as the Bobs Farm sand mine, are assessed under Part 4 of the EP&A Act. As the proposed sand mine is designated development, the application for development must be accompanied by an environmental impact assessment in the form prescribed by the accompanying regulations, and as stipulated in the SEARs detailed above. Where extractive industries, including mines, generate more than 30,000 cubic metres per year and or disturb greater than 2.0 ha of land, consent under Schedule 3 (Part 19) of the Environmental Planning and Assessment Regulation 2000 (EP&A Regulation) is also required.

1.4.2 National Parks and Wildlife Act 1974

The National Parks and Wildlife Act 1974 (the NPW Act) aims to conserve and manage natural resources and Aboriginal heritage. This is through conservation and protection of wildlife including threatened species and their habitat as well as identification, conservation and protection of Aboriginal objects and places. The Act allows for conservation agreements, conservations areas, prevention of harm including research and monitoring of heritage and environmental values. Further values able to be protected include buildings, places and objects of non-Aboriginal cultural values on land referred to under this Act.

1.4.3 Heritage Act 1977

The *Heritage Act 1977* (the Heritage Act) aims to conserve and manage the State's heritage, whether they are places, buildings, works, relics, moveable objects or precincts of local or State heritage significance. A property is a heritage item if it is listed in the heritage schedule of the Local Council's Local Environmental Plan or on the State Heritage Register, a register of places and items of particular importance to the people of NSW. If an item of heritage value was identified, then consultation would be undertaken with Port Stephens Council and an assessment undertaken in accordance with OEH guidelines for *Assessing Heritage Significance* (Heritage Office, 2001). The heritage statement is the basis for policies and management structures that will affect an item's future.

1.4.4 Local Planning Instruments

Development at the site is regulated under the Port Stephens Council Local Environmental Plan 2013 and the Development Control Plan 2014. These policies determine which development is either permissible or prohibited, or exempt or complying. As the proposed quarry is on land zoned RU2 Rural Landscape, an extractive industry located at the proposal site would be permissible with development consent. Further, Schedule 5 lists all items of environmental heritage. No heritage item is listed within proximity to the proposal site.

1.5 Commonwealth legislation

Under the Federal *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), referral is required to the Australian Government for proposed actions that have the potential to significantly impact on Matters of National Environmental Significance (MNES) or the environment of Commonwealth land. The assessment of the proposal's impact on MNES and the environment of Commonwealth land found that there is unlikely to be a significant impact on relevant MNES or on Commonwealth land. Accordingly, the proposal has not been referred to the Australian Government Department of the Environment and Energy (DoEE) under the EPBC Act.

1.5.1 The Project

The Aboriginal heritage assessment has been prepared in accordance with:

- NPW Act;
- EPA Act;
- Heritage Act;
- EPBC Act;
- The Burra Charter (The Australia ICOMOS charter for places of cultural significance);
- NSW Heritage Manual; and
- All relevant Local and State policies and guidelines, including the Environmental Planning and Assessment Regulation 2000, State Environmental Planning Policy 55 – Remediation of Land, State Environmental Planning Policy 44 – Koala Habitat, State Environmental Planning Policy (State and Regional Development) 2011, State Environmental Planning Policy (Infrastructure) 2007, and State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

1.6 Qualifications of the investigator

Jake Brown, Archaeologist, has 2.5 years of experience in Aboriginal archaeological assessments, research, reporting, analysis and consultation. This experience has included cataloguing stone artefacts from the Hunter region, conducting field surveys, and monitoring of potential find sites during surface/subsurface disturbance across central and northern Queensland. Jake's educational qualifications include a *Bachelor of Social Science (Hons)* in Sociology and Anthropology, University of Newcastle 2015, and a *Graduate Certificate of Archaeology* from Flinders University 2017. Jake is a member of the Australian Archaeological Association.

Dr Penny McCardle is an archaeologist qualified in both indigenous archaeology (20 years) and forensic anthropology (16 years). Penny has practical experience in all types of archaeological assessments ranging from small developments to large scale research/management projects and mine site investigations. She has extensive practical experience in research, survey, excavation, reporting and Aboriginal community consultation. She has an understanding of indigenous cultural heritage (including shell middens, stone tools, occupation sites, art, sacred sites, burials, mortuary practices, skeletal identification, etc.). Penny also has an understanding of archaeological theoretical and analytical issues and remains up to date with issues relating to her profession. Penny is a Forensic Anthropologist and works with the Department of Forensic Medicine Newcastle, the NSW Forensic Services Group, NSW Police and the Biodiversity and Conservation Division in regard to skeletal remains, recovery and identification (including Aboriginal and non-Aboriginal). She presents basic theories of archaeological recovery and skeletal identification to the Forensic Services Group Hunter Zone - Forensic Investigators. Penny communicates effectively with professional clients and government departments, and has a sound knowledge of the legislative process, (both State and Federal) guiding the management of indigenous places and sites of cultural importance. She has developed professional working relationships with the relevant heritage bodies, Local Aboriginal Land Councils and other Aboriginal groups throughout NSW. Dr Penny McCardle provided an in-depth critical review of the report.

Dr Rod Bennison is an environmental specialist with over 20 years of experience (over 15 in a consulting environment). Rod has diverse expertise in construction management and social research and is responsible for managing construction projects, community liaison and public relations strategies and services, and environmental and social impact assessments. Rod manages and coordinates the

provision of environmental and community relations services, including environmental planning, acoustics and air quality assessments, archaeological and ecological services. A biogeographer, ecologist and animal ethicist by profession, he is a certified Biodiversity Assessment Method Assessor (BAAS 19023) and contributes to the effective implementation of the BDAR. Dr Rod Bennison directed the project and provided general project oversight, quality assurance and financial management. He provided a review of this report and leads the environmental team at Advitech.

2. CONSULTATION

Further Investigation was recommended as part of the review of the submitted EIS documents. OEH recommended that subsurface testing and an ACHMP were undertaken, however due to the time lapsed between the original ACHA and submission of the EIS, OEH verbally advised that a new ACHA was undertaken in order to obtain an AHIP. As part of the further investigation community consultation has been conducted following the *NSW Aboriginal Cultural Heritage Consultation requirements for proponents* 2010.

2.1 Community Consultation

The following tables (**Table 1, Table 3, Table 4** and **Table 5**) detail the events of community consultation for the proposed Bobs Farm sand mine as per the *NSW Aboriginal Cultural Heritage Consultation requirements for proponents* 2010. Table 5 details responses from the review of the draft ACHA. Further consultation details can be found in **Appendix II**.

2.1.1 Stage 1: Notification of project proposal & registration of interest

Table 1 details the initial contact of parties listed in the *NSW Aboriginal Cultural Heritage Consultation requirements for proponents* 2010 and responses. **Table 2** describes the registered parties for the project with party, contact person and date of registration.

Table 1: Initial Consultation letters

Contacted party	Method	Date	Response
Hunter EPRG Regional Office	Email	14 June, 2019	Provided contacts
Worimi LALC	Email	14 June, 2019	Registered interest
Registrar	Email	14 June, 2019	No reply
Worimi	Email	14 June, 2019	Registered interest
NTSCORP	Email	14 June, 2019	No reply
Port Stephens Council	Email	14 June, 2019	Contact Worimi
Hunter LLS	Email	14 June, 2019	Automated response acknowledging receipt of email. No reply

Table 2: Registered Parties

Registered Party	Contact person	Date Registered
Worimi LALC	Jamie Merrick	28 June, 2019
Nur-Run-Gee	Lennie Anderson	28 June, 2019

Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	2 July, 2019
Murra Bidgee Mullangari	Ryan Johnson	2 July, 2019
Didge Ngunawal Clan	Paul Boyd and Lilly Carroll	2 July, 2019
Mur Roo Ma Inc	Anthony Anderson	4 July, 2019
Worimi Traditional Owners Indigenous Corporation (WTOIC)	Candy Towers	5 July, 2019
Widescope	Steven Hickey	5 July, 2019
Karuah Indigenous Corporation	Dave Feeney	9 July, 2019
A1 Indigenous Services	Carolyn Hickey	15 July, 2019
Divine Diggers Aboriginal Cultural Consultants	Deidre Perkins	20 July, 2019 (late reply)
Worimi Aboriginal Cultural Services	Tamara Towers	21 July, 2019 (late reply)
Lower Hunter Wonnarua Cultural Services	Tom Miller	25 July, 2019 (late reply)

2.1.2 Stage 2: Presentation of Information about the proposed project

Information was sent to registered parties once receipt of interest has been received and the registration period has concluded. The presentation will consist of a summary of background information, details about the purpose and objectives of the project, as well as the proposed methodology for feedback from the registered parties. If any additional information was requested by the registered parties, it was to be provided in consultation with the client. **Table 3** lists responses from the review of the methodology.

Table 3: Review of Methodology Responses

Registered Party	Date of Response	Summarised Comment
Karuah Indigenous Corporation	19 July, 2019	Agreed with methodology
Murra Bidgee Mullangari	23 July, 2019	Agreed with methodology
Worimi Aboriginal Cultural Services	23 July, 2019	Agreed with methodology
Worimi Traditional Owners Indigenous Corporation (WTOIC)	23 July, 2019	Agreed with methodology
Mur Roo Ma Inc	20 August, 2019	Agreed with methodology

2.1.3 Stage 3: Gathering information about cultural significance

Table 4 lists cultural information about the site that was gathered from registered parties.

Table 4: Information gathered from RAPs

Registered Party	Date of Response	Summarised Comment
Karuah Indigenous Corporation	19 July, 2019	The area contains Aboriginal objects and places, willing to provide information about the site verbally
Worimi Aboriginal Cultural Services	21 and 23 July, 2019	Site and surrounding area has continued significance and cultural knowledge holders include Tamara Towers (RAP), Worimi LALC (RAP), Candy Towers (RAP) and Lennie Anderson (RAP)

Worimi Traditional Owners Indigenous Corporation (WTOIC)	23 July, 2019	Provided details of people with cultural knowledge: Candy Towers (RAP) and Debbie Dates (WTOIC)

2.1.4 Stage 4: Review of draft cultural heritage assessment report

The draft ACHAR was sent to registered parties on the 12 September, 2019 for review. The review period ended on the 11 October, 2019. A reminder was sent on the 9 October, 2019 for anyone wishing to comment. Below is a table of summarised comments from responding parties, for full responses see **Appendix II**.

Table 5: Draft ACHAR responses

Registered Party	Date of Response	Summarised Comment
Worimi Aboriginal Cultural Services	9 October, 2019	Agreed with report. Additional late response on 13 November, 2019 Supporting ACHAR and methodology. Notes that the area has continued cultural significance.
Mur Roo Ma Inc	9 October, 2019	Agreed with report recommendations, would like to stress the cultural values of the area and sites in proximity
Widescope	11 October, 2019	Supports recommendations in draft ACHAR

3. ENVIRONMENTALCONTEXT

3.1 Topography

The topography of the area consists of the inner and outer barriers and the depression between the two. The barriers are transgressive and stabilised dunes relating to the Pleistocene (inner) and Holocene (outer) (McCardle CH 2012 p. 6). The site location as an approximate height maximum of 30m and drops to sea level in locations (see **Figure 2**).

3.2 Hydrology

The site is situation between the Pacific Ocean (approx. 2km) and Tilligerry Creek (approx. 1km). Tilligerry Creek connects to Karuah River. A non-perennial watercourse branching from Tilligerry Creek exists approximately 400m north of the main extraction area. 567m east of the smaller extraction area is another non-perennial watercourse, however no watercourse flows through the project area. The area is a part of the Karuah River and Great Lakes catchment which covers 4,480 km² (Department of Industry n.d.) (see **Figure 2**).

3.3 Geology/Soils/Geomorphology

The geology of the area is classified as Quaternary containing gravel, sand, silt, clay, “Waterloo Rock” marine and freshwater deposits (Newcastle 1:250000 Geological Map) (see **Figure 2** and **Figure 3**). The Newcastle Bight embayment is known as a location for the procurement and use (refinement of) stone including fine-grained volcanic tuffs, often cream or grey. Sources of this are Newcastle Coal Measures, Tomago Coal Measures and Dalwood Group. Nobbys Tuff is an example of this material. Other material available was Nerong Volcanics of Carboniferous age outcrop at various locations to the east and north

east of the project area, however Dyall (2004) and Hall (1928) suggest the material was generally unsuitable.

The Port Stephens 1:25 000 Quaternary Geology Map Sheet indicates that the near surface geology of the project area consists principally of aeolian marine sands of Holocene antiquity (Qhbd) with saline swamp deposits (Qhes) also present but restricted to the north eastern portion of the site in association with the interbarrier depressions drained Holocene estuarine plain. No outcrops or deposits of stone(s) suitable for the production of flaked stone artefacts are present within or immediately surrounding the project area. Soils within the project area have been mapped by Matthei (1995) and Murphy (1995) as belonging to the Boyces Track (bt), Hawks Nest (hn) and Bobs Farm (bf) soil landscapes. Dominant soil materials for these landscapes have been described as consisting of variably developed, well-to-poorly drained Podzols (bt and hn) and very poorly drained Humic Gleys (bf).

In general, the aeolian bt and hn landscapes are characterised by deep (>1 m), highly permeable 'A' horizon soils, with well-differentiated A_1 and A_2 horizons (AECOM 2015, p.32). Fibrous peats and saturated sands can also occur in low lying, poorly-drained swales and depressions. Levels of soil development differ according to landscape position within the Outer Barrier, with the most strongly developed profiles occurring towards the rear (i.e., landward margin) of the sand mass (Matthei 1995: 206). Near surface soils in the estuarine Bobs Farm landscape normally consist of organic rich loams and estuarine clays, as well as peaty Humus Podzols that are sometimes present at the aeolian/estuarine interface (Matthei 1995: 188-189).

The geomorphology of the area connects to the inner Pleistocene and outer Holocene barriers. Dean-Jones (1990, pp. 21-29) relates the geomorphic history to the last glacial period and the Holocene period which developed river flows, estuaries, interbarrier depression and transgressive dunes which have shaped the Newcastle Bight landscape.

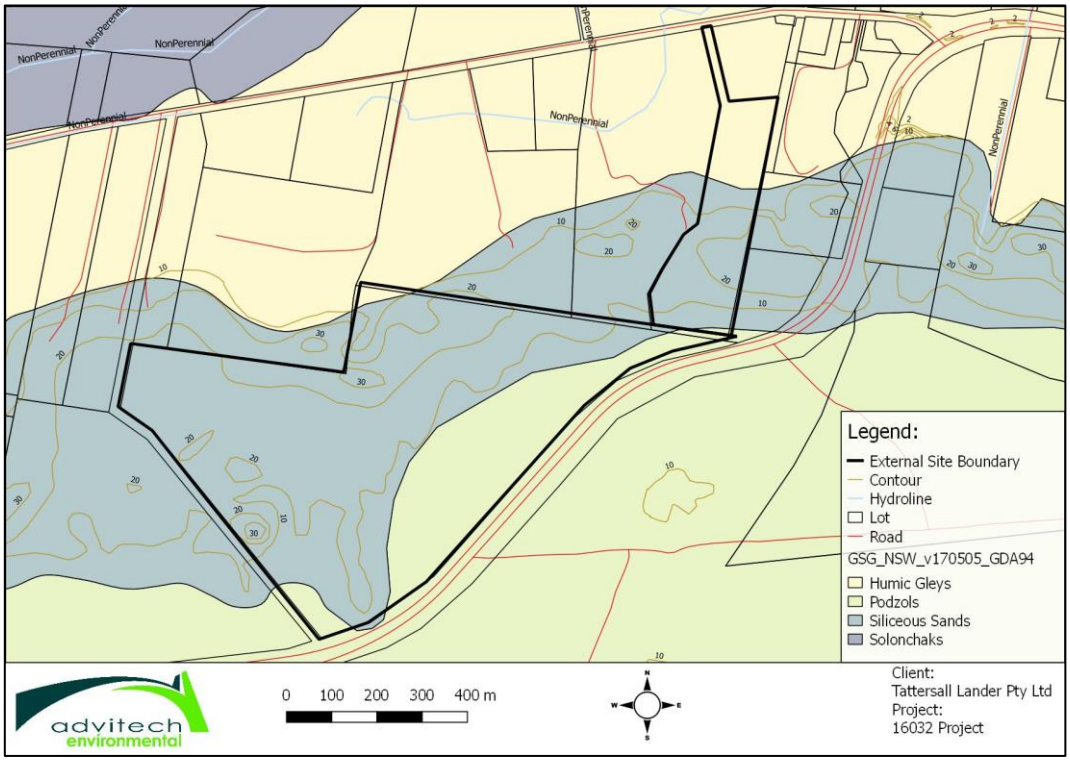


Figure 2: Soil Map with DCDB

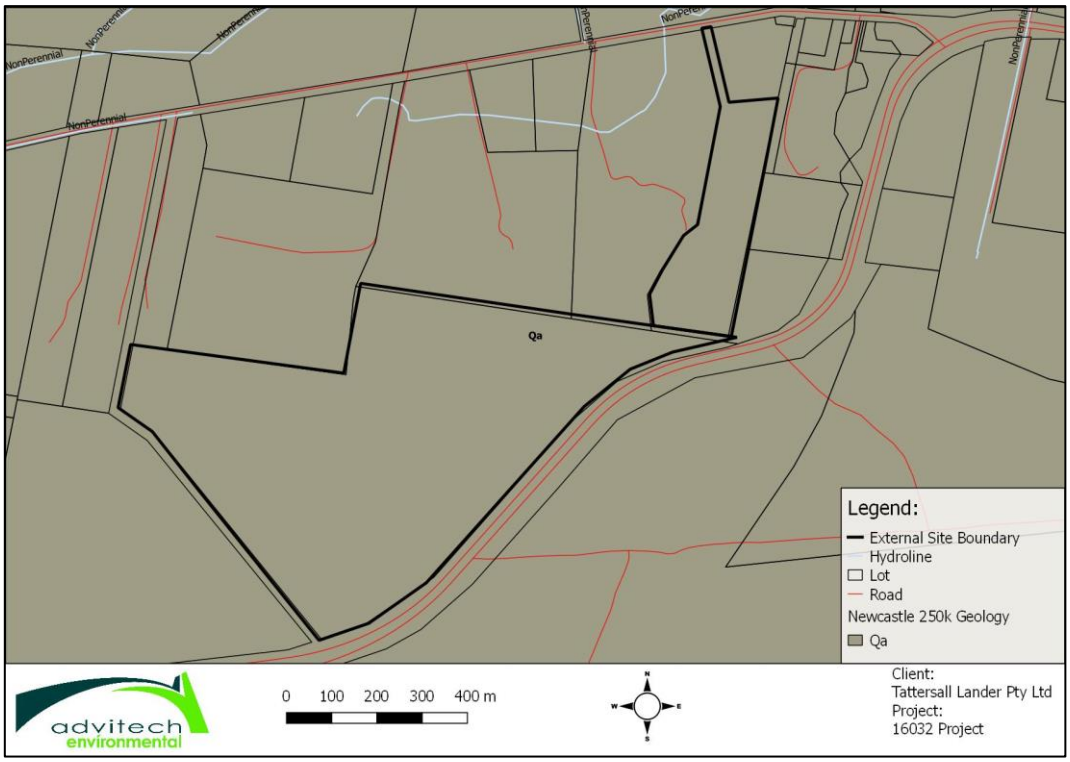


Figure 3: Geological map of the study area

3.4 Climate

The climate of the study area is located in the temperate climate zone (**Figure 4**). The mean temperature range recorded at Nelson Bay (closest station) is a maximum of 27.4°C and a minimum of 9.1°C, while mean rainfall is 157.9mm (high) and 78.1mm (low) further details in **Table 6** (BOM 2019).

Table 6: BOM Nelson Bay climate statistics – temperature 1914-2019, Rainfall 1881-2019 (red = high - blue = low)

Statistic	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean max temperature (°C)	27.4	27.1	25.9	23.6	20.8	18.2	17.5	18.9	21.4	23.2	24.7	26.1	22.9
Mean minimum temperature (°C)	19.0	19.1	17.9	15.3	12.5	10.2	9.1	9.9	12.0	14.1	16.0	17.7	14.4
Mean Rainfall (mm)	99.8	110.8	117.4	129.3	149.6	157.9	137.5	101.7	89.0	78.1	80.2	92.8	1342.3

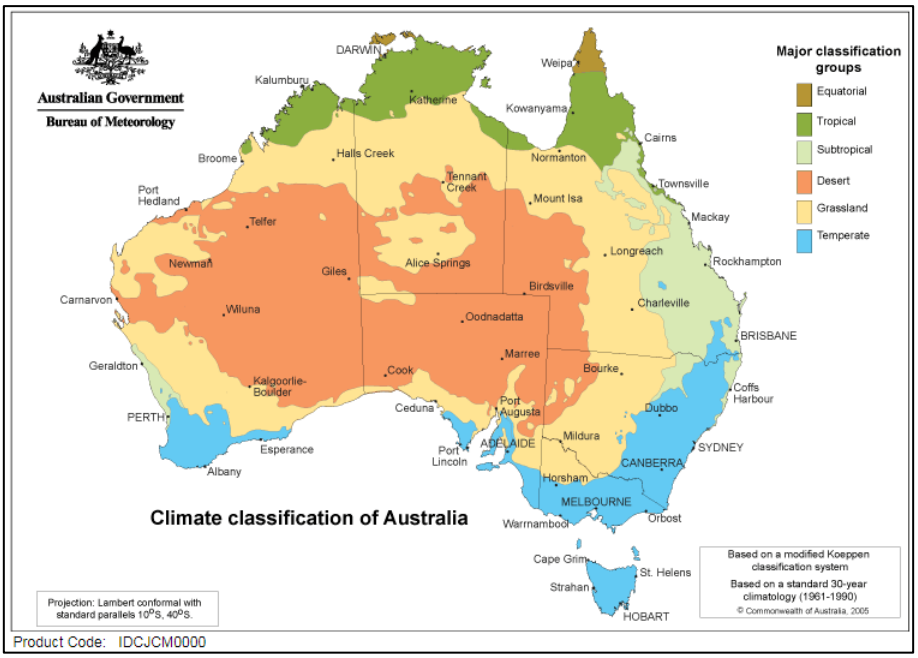


Figure 4: Climate classification map of Australia

3.5 Flora and Fauna

The majority of the landscape in the study area remains vegetated. The Subregion of NSW North Coast in the North Coast Bioregion is classified as having flora including:

> *Wet sclerophyll forest with white mahogany, small-fruited grey gum, Sydney blue gum, blackbutt, tallowwood and brush box. White gum, blackbutt, forest red gum and grey box on dry open flats. Dense Antarctic beech on Barrington Tops and patches of mixed cool temperate and warm temperature rainforest on Comboyne Plateau on basalt. Coastal complex of banksia, paperbark, smooth-barked apple, and blackbutt with numerous shrubs and areas of heath and swamp on dunes. Mangroves in estuaries. (NSW NPWS 2003 177).*

The ecological report noted that the study area predominantly consists of a tall dry open sclerophyll forest dominated by a canopy of Blackbutt and smooth-barked Apple (Wildthing 2018, p. 1). Habitat types (Wildthing 2018, p. 4) include:

- Dry sclerophyll forest (34.5 hectares);
- Swamp sclerophyll forest (1.15 hectares);
- Freshwater wetland (0.31 hectares);
- Orchard (9.6 hectares); and
- Cleared open areas (4 hectares).

The study recorded eight threatened species with secondary evidence of a further two (Wildthing 2018, p. 3):

- Little Lorikeet;
- White-bellied Sea Eagle;
- Squirrel Glider;
- Grey-headed Flying Fox;
- Greater Broad-nosed Bat;

- Eastern False pipistrelle;
- Little Bentwing-bat;
- Large Bentwing-bat;
- Powerful Owl (secondary evidence); and
- Koala (secondary evidence).

The wider local vegetation is likely to have provided Aboriginal people in the area with raw materials such as bark and wood for shelters, canoes, containers, and fires, as well as a limited variety of medicinal and food sources. This vegetation would also have supported the habitation of a variety of small land mammals, reptiles and birds which may have been eaten by Aboriginal people.

A sense of the potential range of plants and animals utilised by Aboriginal people can be gleaned by comparing lists of species known to occur in the area with those known regionally to have been utilised by Aboriginal people. Only remnants of the original native vegetation and their associated resources currently exist within the study area today (see **Sections 3 and 4**). With the loss of this habitat only a few of the faunal species likely to have been utilised by Aboriginal people remain within the study area. The availability of fresh water in the study area would have been tentative and reliant upon rainfall. However, the nearby Tiligerry Creek (non-perennial) would have provided a more reliable and accessible source of fresh water.

3.6 Landscape history, uses and disturbances

The history of the landscape and its past and present uses and disturbances, are important to the interpretation of archaeological evidence and what may remain. Occupation of Australia by Aboriginal people is currently thought to have commenced at least 20,000 to 60,000 years prior to arrival of the European settlers. The environments of five broad time periods can be reconstructed within which the archaeological resources of the eastern coast of Australia can be evaluated:

- The Late Pleistocene is thought to overlap with the time Aboriginal people first settled in the Hunter Valley;
- The Last Glacial Maximum (LCM) (peaked around 20,000 years ago) during which people adapted to significant climactic and environmental change;
- The Holocene (the last 12,000 years) that saw sea levels and positions stabilise at their current positions;
- The landscape in c.1790 as it was immediately before European settlers arrived; and
- The last 200 years when the landscape was dramatically altered by European settlement and land use practices.

There are very few direct lines of evidence (archaeological, ecological, and geomorphic) that document what the landscape in Bobs Farm was like prior to European settlement. The region has documented settlement at Newcastle/Hunter River at the start of the 1800s and northern sections of Port Stephens (Karuah/Tea Gardens) by the Australian Agricultural company in the 1820's (HO and DUAP 1996, pp. 38; Engel, Winn and Wark 2000, pp.11). The regional history connects to agriculture, rivers for transport and industries, as well as mining (HO and DUAP 1996, pp. 38-43). Bobs Farm employment in the 2016 census (ABS 2018) indicate that Bobs Farm still had connections to historical regional industries with coal mining representing 3.7% of responses, with the top response going to supermarket/grocery stores (5.5%), followed by house construction (4.9%), plumbing services (4.3%) and carpentry services (3.7%).

3.7 Environmental Summary

The environmental context indicates that the area is dominated by its relationship to water and the landscape provided by the inner Pleistocene barrier and outer Holocene barrier. As no watercourse flow through the project area, any people in the project site would have had to rely on watercourses recorded at a minimum of 400m from the site. The landscape history that shaped the Holocene barrier, will also have impact the use of the site with shifting coast line (Pacific Ocean currently 2 km east), this would have impacted on available aquatic food sources as the barrier was created. The regional context has shell middens documented in close proximity to the site (Section 6) and suggests that the larger water sources such as Tiligerry Creek, Karuah River and the Pacific Ocean are strongly connected to the site and regional context.

4. ARCHAEOLOGICAL CONTEXT

4.1 OEH Aboriginal Heritage Information Management System (AHIMS)

A search of the OEH AHIMS register has shown that no Aboriginal sites or objects are currently recorded within a 900m radius of the study area. The literature research reveals more registered sites in the local area which are generally associated with the construction of roads, power infrastructure and mines. The basic details of the known registered sites within 900m are itemised below in **Table 7**

Table 7: Summary results of AHIMs Extensive search

Site ID	Site Name	Aboriginal site/object	Site Status
38-4-2016	BF-SC1-14	Shell	Valid
38-5-0350	BF-SC2-14	Shell	Valid
38-5-0351	BF-SC3-14	Shell	Valid
38-5-0352	BF-SC4-14	Shell	Valid
38-5-0353	BF-SC5-14	Shell	Valid
38-4-0304	Marsh Rd 1	Artefact, shell	Valid
38-4-0309	M 1	Shell, artefact	Valid
38-4-0310	M 2	Shell, artefact	Valid
38-5-0217	Tomaree 1	Shell: 1	Valid
38-5-0218	Tomaree 2	Shell: 1	Destroyed
38-5-0208	Nelson Bay Road PAD1	Potential Archaeological Deposit (PAD): 1	Valid
38-5-0234	PAD 5: Tomaree to Tomago	Potential Archaeological Deposit (PAD): 0	Valid
38-5-0257	Tomaree 2a	Shell	Valid
38-5-0258	Tomaree 2b	Shell	Valid

The full AHIMs results, details of their specific locations and mapping, are provided in **Appendix 1**. These detailed results have been separated in order to enable the easy detachment of the Appendix and prevent the unnecessary public disclosure of these details.

Reliance on the locations provided by the AHIMS searches is tentative. There are many variables that must be considered when using the Aboriginal Heritage Information System (AHIMS). More particularly, site coordinates, and descriptions are not always correct due to the following:

- Errors resulting from the evolution of subsequent computer systems used by OEH that have failed to account for or correctly translate old coordinate systems, such as topographic map references, to new systems;
- Errors resulting from human error or incorrect descriptions of locality on the site cards submitted to AHIMS;
- Errors resulting from data input. Most commonly the naming of the correct mapping system used; and
- Few sites have been updated on the AHIMS register to record if they have been subject to a s87 or s90 permit and, as such, what sites remain in the local area and what sites have been destroyed is unknown.

Variation in the classificatory definitions employed by archaeologists will significantly influence the range of artefact types identified in an assessment. Due to differences in recording techniques it is difficult to determine how many of each artefact type is represented across the region. Artefact types noted include flakes (broken, retouched, debitage, waste, chips), cores (multi-platform, single and bipolar), geometric microliths, backed blades, bondi points, scrapers, eloueras, burins, blades, hatchets, choppers (unifacial and bifacial), pebble tools, edge-ground axes, anvils and hammer stones. Due to variations in both the amount of data that is included in reports, and the terms different archaeologists used to describe artefact types, it is not practicable to provide a count of the different artefact types. It is therefore not productive to attempt to quantify the proportionate representation of artefact types identified in previous studies. An analysis of sites according to the number of artefacts present, the distance from water and the landform type may allow for the identification of a number of trends. However, there are various factors influencing these results, including, not limited to:

- A lack of substantial archaeological investigation of privately owned properties surrounding the study area. As the study area and the surrounding locations are part of the earliest properties to be developed and the active protection of Aboriginal heritage has only occurred within the last thirty years, insufficient investigative results are present to make an informed analysis of trends;
- The fact that the landform on which a site area is observed may not necessarily be its origin, for example, artefacts from a crest may be relocated by erosion such that they are recorded further down a slope;
- Effects of biased sampling of landforms due to decisions made by archaeologists and as a result of development area boundaries, levels of exposure on different landforms and variable recording by archaeologists. For example, the large percentage of sites found along creek lines may be (at least partially), a result of the biased focus of many cultural heritage surveys towards this landform. In addition, it was not possible to obtain sufficient information from a large number of site cards and reports; and
- Artefact counts can be skewed due to factors such as the differing fragmentation levels of discrete stone types and levels of ground surface visibility. Typically, a very large number of sites/artefacts are located on exposures and yet very few artefacts are visible away from these exposures.

In the case of this assessment and the study area, little reliance should be placed on the archaeological context due to the lack of information available by way of comparable studies in the locality and on the same landforms. However, some modelling of past Aboriginal use can be derived from the surrounding registered Aboriginal sites.

4.2 Local and Regional Archaeological Context

A review of the context of local and regional archaeological assessments, when combined with environmental factors (see **Section 3**), provides the broad basis of a predictive archaeological model for the study area (see **Section 4.3**). The broader cultural landscape (as discussed in **Section 5**) is highlighted when there is a modelling of expected site types, frequency of their occurrence and spatial distribution patterns across the wider area.

However, previous archaeological investigations are somewhat limited in their utility regarding site locations, lithic artefact quantities and type. These limitations arise from the variable way archaeologists have previously identified, classified and recorded Aboriginal objects, particularly lithic materials, and Aboriginal sites. Owing to these variations in the amount of data that is included in reports and the terms different archaeologists use to describe artefact types, a comparison of objects and tool types from each site is not considered to be representative or reliable for the purposes of predictive modelling other than on a broad and generalised basis.

Overall, there is a moderate amount of substantial archaeological data for the region. The local data consists of projects in the neighbouring area relating to infrastructure or development projects and does not necessarily represent to the same landscape and level of existing disturbance. Of the most relevant reports reviewed, the following information is pertinent to this report.

4.2.1 Assessments in project area

4.2.1.1 AECOM 2015a, Bobs Farm Sand Project Aboriginal Cultural Heritage Assessment. Report to Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd.

This report is part of a heritage EIS assessment that also includes a historic heritage assessment. The report found 5 shell middens on the site. The sites were located on the inner Pleistocene ridge and approximately 400m from the closest water source. The survey covered predominantly disturbed and cleared areas. Community consultation with Aboriginal representatives and the results of the survey recommended a salvage program, Aboriginal Cultural Heritage Management Plan, monitoring during vegetation clearance and inspections of rejected material.

4.2.1.2 AECOM 2015b, Bobs Farm Sand Project Historic Heritage Assessment. Report to Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd.

This report is part of a heritage EIS assessment that also includes an Aboriginal Cultural Heritage Assessment. The assessment found the Bobs farm area had European settlement from 1820s. The project area has also been impacted by agriculture and refugee camp during World War II for Portuguese and Timorese. Limited details of the camp survive and no confirmed location and layout is available. Recommendations were to have an Environmental Management Plan that included historic heritage protection contingencies.

4.2.2 Local assessments

4.2.2.1 Dean-Jones, P., Goodwin, A. Bernasconi, S., Birubi Point Cultural Heritage Advisory Panel 2017. A Cultural Future - Lessons from Birubi Point Aboriginal Place. Coastal Conference, Port Stephens.

The conference paper discusses the process of implementing a management plan for the Birubi Point Aboriginal Place. The points covered include past management, needs and desires for future management and consultation styles. Key directions for the future include Worimi lead cultural promotion and education about the Birubi Point, planning and implementation for facilities and tourism, as well as heritage and environment protection.

4.2.2.2 Dyall, L.K. 2004, The Aboriginal Middens at Birubi, An account of surface collections (1964-1977) on the Aboriginal site at Birubi, near Port Stephens, New South Wales, and its subsequent in excavation 1978 and 1979.

Dyall undertook a number of studies at Birubi documenting the middens and other Aboriginal artefacts. Birubi is located at one end of Newcastle Bight and consist of beach, outer barrier sand dunes and porphyritic rock headland. The middens included shell, fish bones, charcoal and stone flakes. Stone tools were documented at a number of the middens including Bondi points, eloueras, edge-ground axes and bondaian tools. The site suffered rapid degeneration in the 1970's through weather events and human actions (such as recreation and building practices). Dyall undertook surface collections between 1965-1977 and an excavation in 1979 (published in 1982).

4.2.2.3 McCardle Cultural Heritage 2012, MR108 Nelson Bay Rd Stage 3 Indigenous Archaeological Due Diligence Assessment. Report to Roads and Maritime Services.

The due diligence assessment of stage 3 of Nelson Bay Road between Cromarty Road and Port Stephens Drive was assessed in 2012. 3.9 km of new dual land carriageway will connect to stage 2 east of Cromarty Lane. The landscape was characterised by the outer Holocene barrier and interbarrier depression, Stockton Beach is 1.5km south of the site and creeks are located approximately 1 km from the site. The OEH AHIMS search identified 116 recorded sites with 5 kilometres of the study area. Two shell middens and a low-density artefact scatter is recorded with the study area. The survey located two shell middens. Recommendations included cultural awareness inductions, ongoing community consultation/management plan, If PAD sites are to be impacted seek an AHIP.

4.2.2.4 McCardle Cultural Heritage 2015a, 781 Marsh Road, Bobs Farm Archaeological Due Diligence Assessment. Report to Sorensen Design.

The study area is part of a flood plain associated with the interbarrier depression and is approximately 1 km from Tilligerry Creek. The study area consists of 3 lots 26 DP 253798, 223 DP 598773, 14 DP 1071458 with the proposal a wakeboard park with tourist facilities. The AHIMS search identified 107 sites with a 5km radius, with no sites within the study area. No sites were located.

4.2.2.5 Sheppard Brennand, M. 2017. Hunter-gatherer economies along the Newcastle coastline: An analysis of a shell midden site from the Late Holocene Birubi, New South Wales. BA Honours Thesis, University of Sydney, Sydney.

The study aimed to analyse and record faunal deposits of the Birubi shell Midden. Birubi is located at one end of Newcastle Bight and consist of beach, outer barrier sand dunes and porphyritic rock headland. The study area was investigated in the 1970s by Professor Len Dyall with surveys and excavations occurring. The quantitative analyses undertaken in this study aims to add to the broader

understanding of coastal economies of hunter gathers and reanalyse material from the 1970s excavation. The findings demonstrated changes in spatial and temporal use of faunal resources.

4.2.3 Regional assessments

4.2.3.1 AMBS 2005, Aboriginal Heritage Study: Newcastle Local Government Area (Draft Report). Report to Newcastle City Council

AMBS undertook a study of the Newcastle LGA and the Aboriginal cultural heritage in that area. This was undertaken in conjunction with a reference group consisting of Awabakal LALC, Mindaribba LALC, Worimi LALC and Newcastle Council's Guraki Committee. Key areas of investigation included:

- Environmental resources and characteristics;
- History of occupation and landscape modification;
- Archaeological knowledge of the region including site distribution and composition;
- Analysis of Newcastle LGA including landscape model of archaeological sensitivity;
- Cultural sensitivity of the Newcastle LGA; and
- Management strategies to conserve and manage Aboriginal cultural heritage.

AMBS recommended continuing the integral involvement of the Aboriginal community in the heritage management process.

4.2.3.2 AMBS 2009. Archaeological and Geomorphological Review for North Shearwater Precinct – Local Environmental Study. Report to RPS Harper Somers O'Sullivan

This report carried on from the Insite Heritage (2009) Aboriginal and European heritage assessment. The site borders the Myall River to the east and the Monkey Jacket Creek to the North east (approximately 250m). The landform consists of flood plain transitioning to undulating hills. A geomorphologist was consulted and concluded that the sands below the surface were not Pleistocene but were from the Holocene. The Holocene sands were in proximity to the Myall River. The assessment also reduced the potential for PADs, however it was determined that three archaeological sensitive areas within the AHIMS registered areas exist (ABMS, 2009, pp. 29-37). The sizes of each PAD determined by Insite Heritage were greatly reduced from this investigation.

4.2.3.3 AMBS 2010. Archaeological Test Excavation Research Methodology: North Shearwater Precinct. Report to Great Lakes Council

Following on from the AMBS (2009) investigation of the North Shearwater site, a test excavation methodology was developed. Three transects locations with 15 test pits of 1 m² were recommended.

4.2.3.4 Davies, S.J. 1993, An Archaeological Assessment of Ten Telecom Optic Fibre Cable Routes Located Between Gosford and Wauchope, Central Coast, New South Wales. Report to Telecom Australia

Telecom Australia planned to install cable between Gosford and Wauchope. The study areas included Gosford, Williamtown, Forster, Gloucester and Wauchope. The installation method was a plough and ditch method. The survey targeted areas considered to have high archaeological potential based on landscape such as watercourses, ridges, spurs, sandstone outcrops and sand dunes. Previous archaeological studies examined by Davies suggested shell middens, engraving sites and axe grinding grooves could potentially be found. The LALCs recommended where potential sensitive areas were located monitoring from the LALC occurs, this was for spots in the Williamtown and Forster areas. Davies recommendations included not deviating from the survey route and having a finds procedure.

4.2.3.5 *Dean-Jones, P. 1990, Newcastle Bight Aboriginal Sites Study. Report to NSW National Parks and Wildlife Service and National Grants Committee*

The report provides an overview of previously known archaeological sites in the Newcastle Bight area and included a site survey. The site survey resulted in a doubling of known sites in the Newcastle Bight area. At least 74% of sites included some estuarine or marine shell. Dean-Jones also notes that 12% of recorded shell scatters have dense concentrations of shell. It is suggested that to have high archaeological significance factors such as slope, stability, age, substrate and resources should be considered. Dean-Jones suggests that Pleistocene dunes adjacent to Pleistocene freshwater wetlands have a high potential for heritage sensitivity with evidence of open camp sites indicating that dune landscape was sought for occupation.

4.2.3.6 *ERM 2005, Aboriginal Heritage Assessment Report Fern Bay Estate Master Plan Study. Report to Winton Property Group & Continental Venture Capital Limited*

The site consists of 205 hectares with stable dunes and interdunal depressions connected to the outer Holocene barrier. The site supports swamp forests which are associated with damp waterlogged areas. Assessment of the site has included test excavation and post-field analysis. Carbon dating from the site includes a Worimi Cleaver at approximately 2500 BP and dunes 4000 BP. Key recommendations include Preservation of high sensitivity archaeological areas, obtaining a consent to destroy permit and salvage process.

4.2.3.7 *ERM 2011c, Riverside at Tea Gardens Aboriginal Heritage Assessment. Report to Crighton Properties Pty Ltd*

The site at Tea Gardens borders the Myall River to the east and is approximately 225.5 hectares. Landforms within the study area include dunes, flats, open depressions and wetlands. The site was assessed in 2008 and 2009 with the assistance of Karuah Local Land Council. The first survey located 1 shell midden, however it was noted that visibility due to site conditions (vegetation, inundation of ankle deep water, wetland) may have affected the results. The 2009 survey was a consequence of low visibility and recommendations from the DECC. The visibility was again cited as an issue. No new sites were located; however, 2008 midden and a previously registered midden were again documented in the survey.

4.2.3.8 *ERM 2012, Tanilba Northern Dune Heritage Assessment in Tanilba Northern Dune Sand Extraction Extension Environmental Assessment Report. Report to Sibelco Australia Limited (formerly Unimin Australia Ltd)*

The report covered Aboriginal and heritage assessment of the proposed extension area. The site on the Tilligerry peninsula contains part of the Tanilba northern dune and approximately 150m from Big Swan Bay. The results of survey identified a sensitive landscape for Aboriginal heritage due to the dune formation and surrounding AHIMS sites (open campsite and middens), though no sites were located during the survey. A monitoring methodology was provided in the report for land clearing.

4.2.3.9 *Insite Heritage 2009, Aboriginal and European Heritage Assessment North Shearwater Precinct: Local Environment Study. Report to GeoLink Pty. Ltd*

The site borders the Myall River to the east and the Monkey Jacket Creek to the North east (approximately 250m). The landform consists of flood plain transitioning to undulating hills. The survey discovered two potential archaeological deposits that covered large portions of Stages One and Five. It was recommended that due to the potential for Pleistocene sands and the likelihood of subsurface

material, test excavations should occur after consultation with a geomorphologist to determine subsurface potential. A scatter of whelk shells were also located in this survey, however disturbance to the area disrupted the original context of what was described as a potential midden (Insite 2009).

4.2.3.10 Insite Heritage 2015, Trinity Point Marina and Mixed Use Development Cultural Heritage Management Plan. Report to Johnson Property Group

The proposed development site is located on a point surrounded by Lake Macquarie. The development involves a marina, accommodation, retail/hospitality shops and landscaping. The management plan allows for both historic heritage as well as Aboriginal heritage. Aboriginal sites including grinding grooves, a scar tree, shell, as well as ochre and toe holes. Management recommendations include site inductions, reuse of top soil on site, salvage program, fencing and archival photographic recording

4.2.3.11 Karuah Local Aboriginal Land Council 2018, Cultural Heritage Assessment Karuah East Quarry Project – Modification Application (Mod.1) Pacific Highway, Karuah. Report to Karuah East Quarry Pty Ltd

The report was to assess an additional.25 hectares for the approved quarry which consist of 31.63 hectares. The quarry is located on a slope associated with the Nerong volcanic landscape and is approximately 4 km from the Karuah River. The quarry is approximately 5 km north east of Karuah. The due diligence assessment did not find any potential Aboriginal cultural heritage items and the advice provided was to proceed with caution.

4.2.3.12 Koettig, M. 1987, Preliminary Assessment of Aboriginal Archaeological Sites in the Proposed Sand Extraction Location at Nelson Bay Road, Newcastle Bight: DP 530095. NSW South Wales. Report to R.W. Corkery and Co Pty Ltd

The project area was near Fullerton Cove and in a landscape characterised by stabilised late Holocene transgressive dunes. The survey recorded 10 sites including shell middens and stone artefacts. One isolated stone artefact was located. Recommendations included preservation of the site/s, undertake salvage if destruction is planned. Test excavations were recommended to determine the extent, cultural and archaeological value.

4.2.4 McCardle Cultural Heritage 2015b, Proposed Sand Quarry – Cabbage Tree Road, Williamtown Aboriginal Heritage Impact Assessment. Report to Williamtown Sand Syndicate Pty ltd for inclusion in Environmental Impact Statement prepared by Umwelt

The project area covered 176 hectares and contained landscape features relating to the inner barrier (Pleistocene) and inter barrier depression. The project area is approximately 800m from Fullerton Cove with water sources such as the Hunter River and Tilligerry Creek in the surrounding area. The project area had one registered AHIMS site. The site was relocated in the 2015 survey and had disturbance (motorcycle tracks) and was considered to have poor integrity. No additional sites were discovered. An Aboriginal Heritage Management Plan was recommended to be developed with the registered Aboriginal groups.

4.2.4.1 RPS Harper Somers O'Sullivan 2008, Aboriginal Archaeological Assessment, Myall River Downs, Tea Gardens NSW. Report to Great Lakes Council

Great Lakes Council commissioned the report in 2008. The site at Tea Gardens is approximately 18 hectares characterised as a low-lying estuary area and near the Myall River, Wobbegong Bay and Kore Kore Creek. Two previous assessments had been completed for Myall River Downs by Silcox (1999) and ERM (2007). They identified shell middens on the site, however the reports concluded different

locations of sites and extent of the middens. During the RPS survey 3 sites (middens) were rerecorded. Recommendations included consultation with the local community, exclusion of sites MRD1 and MRD3 due to high significance and an AHIP for MRD2.

4.2.4.2 Umwelt 2009, Aboriginal Cultural Heritage Assessment of Sand Extraction Operations from Lot 218 DP 1044608 and Lot 220 DP 1049608 Salt Ash. Report to Macka's Sand

The assessment at Salt Ash for Lot 218 DP 1044608 (412 hectares) and Lot 220 DP 1049608 (76 hectares) includes access routes. Two sites were located during this survey with Mackas 1 containing 5 artefacts manufactured from Nobby's tuff flakes (1 broken) and 1 manuport. Mackas 1 also contained bone fragments and scattered shell. Sites MFMS 1 and 2 identified on a previous survey in 2004 and MFMS 3 was a new site, all contained shell fragments.

4.2.4.3 Umwelt 2016, Aboriginal Cultural Heritage Management Plan for Sand Extraction Operations from Lot 218 DP 1044608 and Lot 220 DP 1049608 Salt Ash. Report to Macka's Sand Pty Ltd

The management plan for this assessment at Salt Ash includes access routes and continues on from the 2009 assessment by Umwelt. The study area is a part of the Newcastle bight sand dune system (outer Holocene barrier). The plan outlines recorded sites (4 middens) and strategies for continued Aboriginal community involvement, vegetation and heritage management through cultural heritage awareness training.

4.2.4.4 Umwelt 2017a, Aboriginal Cultural Heritage and Archaeological Assessment Report Residential Development Planning Proposal – Stockton Rifle Range, Stockton NSW. Report to Defence Housing Australia

Defence Housing Australia wished to develop the former Stockton Rifle Range for residential use by defence personnel and private individuals. The study area is a part of the Newcastle bight sand dune system bordering the Pacific Ocean to the east and approximately 200m from the Hunter River to the west. An ACHA was undertaken as part of the rezoning application. Archaeological implications included previously recorded heritage sites and given the environment (Stockton bight dunes) potential for more items including Potential Archaeological Deposits, stone artefacts and burials was deemed likely.

4.2.4.5 Umwelt 2017b, Aboriginal Cultural Heritage and Archaeological Assessment Report Residential Development Planning Proposal – of Fort Wallace, Stockton NSW. Report to Defence Housing Australia

Defence Housing Australia wished to develop Fort Wallace for residential use by defence personnel and private individuals. The study area is a part of the Newcastle bight sand dune system and 100m from the Hunter River and 200m from Stockton Beach. An ACHA was completed as part of the rezoning application. The development site existed within the Fern Bay site complex which contains shell middens, artefact scatters and isolated finds. Other AHIMS sites exist along the property boundary including Aboriginal resource and gathering, artefact scatters and burials. The field survey located five new sites including isolated finds consisting of broken flakes, flakes, fragments of Oyster shell and the Burial Hill location as a culturally sensitive area. Recommendations include awareness of legal ramifications of harm to heritage items, applying for an AHIP, further survey if the impact area changes and AHIP should exclude impact to recorded burial sites and if suspected human remains are found notify proper authorities.

4.2.5 Local and Regional Character of Aboriginal Land Use and its Material Traces

The environment of the study area (topography, geology, landforms, climate, geomorphology, hydrology, soils and vegetation) has been described in detail in **Section 5** of this assessment. Environmental factors strongly influence the suitability of a place for human occupation as well as the duration of that use. The known nature and distribution of cultural materials and resources derived from historical studies and existing known sites, combined with the environmental factors and contemporary cultural accounts, assist in forming a local and regional character of Aboriginal use.

Academic investigation and research have expounded a variety of theories regarding the immigration route and timing of Aboriginal people's arrival in Australia (Bowdler, 1977; Horton, 1981, Smith, 1987). Archaeological investigation in the wider region has provided evidence of occupation at Burrill Lake 20,000 years BP, in the southern Tablelands, 10,000 years BP, in Birragai, 21,000 years BP and in the lower Blue Mountains, 17,000 years BP (Rich, 1988). Bowdler (1981) and Koettig (1985) submit that sites south of Sydney increased around 2,500 years ago and that this was indicative of changes in stone tool technology.

About 19,000 years ago, after the Last Glacial Maximum, global temperatures began to warm. Approximately 10,000 years ago the climate is likely to have become broadly similar to that of today. While the fluctuations in the climate during the last 10,000 years is likely to have been complex, the sea reached its present level around 7,000 years ago and environmental changes after that time are likely to have been relatively minor when they are compared with those during the preceding Aboriginal occupation of the region. It is likely that, during this time, Aboriginal populations were small and use of the local area was transient, especially during the severe winter conditions that would have prevailed. Populations may have preferred to live near the coast, where the year-round climate would possibly have been more temperate, although occupation in the interior landscapes is not discounted and was also probable at different times and in different places over this long geomorphic time period.

Archaeologists, historians and ethnographers have regularly considered why Aboriginal people chose specific locations for camps. Predominantly and generally it is considered that camp sites were chosen for:

- Their proximity to fresh water;
- Availability of food supply or other required resource;
- A vantage ground in case of attack from an enemy;
- For spiritual reasons and to be close to areas of ceremony and tribal gatherings; and
- Movement between resource zones, as well as territory and rights of access by and to such resources.

Other uses of the local landscape by Aboriginal people may have included ceremonial sites, corroboree sites, rock shelters (which may have been used for habitation, ceremony, signage and teaching); rock and ochre extraction quarries, fish traps within streams and rivers, trade routes, walking lines and burials.

4.3 Models of occupation

A general model of forager settlement patterning in the archaeological record has been established by Foley (1981). Foley's model distinguishes the 'home base' site with peripheral 'activity locations'. Home base sites generally occur in areas with good access to a wide range of resources (reliable water, raw materials, and so on). The degree of environmental reliability of these resources may influence the rate

of return and length of occupation of sites. Further, Foley (1981) suggests that home base sites generally show a greater diversity of artefacts and raw material types reflecting that they are representative of a greater array of activities performed at both the site and immediate area.

Activity locations occur within the foraging radius (approximately 10 km) of a home base camp and served as a focus of a specific activity (Renfrew and Bahn, 1991). Activity locations will show a low diversity in artefacts and are not likely to contain features reflecting a base camp (such as hearths). However, the location of certain activities cannot be predicted or identified.

Kuskie and Kamminga (2000) established a general model of occupation strategies based primarily upon ethnographic research (see**Table 8**). The model distinguishes between short-term or extended long-term occupation and makes some predictions about the likely location of different foraging and settlement activities. For example, the presence of features that required a considerable amount of labour investment, such as stone-lined ovens, heat-treatment pits or grinding grooves, are likely to occur at places where occupation occurred for extended periods of time. Where band mobility was high and campsites frequently shifted throughout the landscape, artefact assemblages are not expected to contain elements such as grindstones, heat-treatment pits, ovens and the diversity of implements frequently discarded at places of extended residential occupation. **Table 8** has been adapted from Kuskie and Kamminga (2000).

Table 8: Site Descriptions (adapted from Kuskie & Kamminga 2000)

Occupation Pattern	Activity Location	Proximity to water	Proximity to food	Archaeological expectations
Transitory movement	All landscape zones	Not important	Not important	▪ Assemblages of low density & diversity ▪ Evidence of tool maintenance & repair ▪ Evidence for stone knapping
Hunting &/or gathering without camping	All landscape zones	Not important	Near food resources	▪ Assemblages of low density & diversity ▪ Evidence of tool maintenance & repair ▪ Evidence for stone knapping ▪ High frequency of used tools
Camping by small groups	Associated with permanent & temporary water	Near (within 100m)	Near food resources	▪ Assemblages of moderate density & diversity ▪ Evidence of tool maintenance & repair ▪ Evidence for stone knapping & hearths
Nuclear family base camp	Level or gently undulating ground	Near reliable source (within 50m)	Near food resources	▪ Assemblages of high density &diversity ▪ Evidence of tool maintenance & repair & casual knapping ▪ Evidence for stone knapping ▪ Heat treatment pits, stone lined ovens ▪ grindstones
Community base camp	Level or gently undulating ground	Near reliable source (within 50m)	Near food resources	▪ Assemblages of high density & diversity

	▪ Evidence of tool maintenance & repair & casual knapping ▪ Evidence for stone knapping ▪ Heat treatment pits, stone lined ovens ▪ Grindstones & ochre ▪ Large area >100sqm with isolated camp sites

Hunting would have comprised the major economic role of the men (Kohen 1986). Along the rivers, traps and snares would have been set for bandicoots and wallabies, while decoys for snaring birds were also a commonly employed technique, 'these are formed of underwood and reeds, long and narrow, shaped like a mound raised over a grave, with a small aperture at one end for the admission of the prey' (Tench 1793). Hunting methods included smoking out the animal by lighting a fire in the base of a hollow tree, burning large tracts of land and gathering the stranded animals, as well as cutting toe-holds in trees (Tench 1793).

4.3.1 Predictive model for the project area

There is potential for local or district outlook from the study area due to the landscape, however the surrounding tree canopy may have affected visibility. Verbal evidence of a songline following the ridge throughout the proposed site was mentioned in the 2015 ACHA report.

Overall, based on the environmental and archaeological context and using Kuskie and Kaminga's (2000) model, it is considered that the study area would have been most likely suitable for transitory hunting and foraging as opposed to any lengthy occupation. More preferable areas for occupation with richer resources, such as the Karuah River (perennial), Tilligerry Creek (non-perennial) and the Pacific Ocean. Using this predictive model with an adapted regional model based on UCHQU (2017, pp. 33-35) and Umwelt (2017, pp. 53-55) which details that sites are more likely to occur within:

- 200m of a named watercourse;
- 100m of a mapped drainage line;
- 50m of a known Aboriginal cultural heritage site;
- On landforms with a slope no greater than 30 degrees, except where sandstone bedrock or limestone outcrops are present; and
- Archaeological deposits may be at depth due to stabilised and transgressive dunes.

Based on the predictive modelling from the previous assessment and following an inspection of the study area, a final predictive model for the study area and its archaeological potential, reveals that there is a medium to high of Aboriginal object(s) being present within the developed and disturbed portions of the study area. Using the predictive modelling of the previous assessment of the site by AECOM and other reports from assessments of Nelson Bay Road and surrounding area:

- Site locations may have shift from original context due to erosion/accumulation of dunes;
- Previous archaeological studies may not represent the sites/landform context due to classification of landforms, assessment sites not evenly disturbed and level of disturbance;
- The landscape and landforms of the area proposed for impact. The results of contextual archaeological studies indicate a preference for sites within 50 metres of reliable water sources or a confluence of water sources, on ridge lines, spurs and on crests;

- Sites are not usually found in the interbarrier depression but rather on the inner and outer barriers;
- Previous surveys indicate artefact scatters, isolated finds, scarred trees, burials and ceremonial sites could be found in the inner and outer barriers/sand dunes;
- The lack of archaeological reports published or available for the area give an inaccurate indication of the potential for Aboriginal sites to be found. While existing registered AHIMS sites are located in close proximity to the disturbance footprint, there is potential for other previously recorded but not registered sites to exist in the area as well as unrecorded sites;
- Aboriginal burials have been located along Nelson Bay Road in previous assessments, this may result in a possibility of Aboriginal burials on site;
- Disturbance may alter the context of a site and change the possibility of find likelihoods; and
- Previous 2014 survey found shell in disturbed sections of the site (tracks), this may represent accumulation of material covering sites and suggest visibility could pose an issue.

In summary, the study area provides some suitable resources and landscape features (elevated positions, distance to semi-permanent water) to allow for temporary or transient occupation of the site. While it is probable that the area hosted long term community base camps or transitory locations, it is reasonable to infer that smaller camping or nuclear family base camps may have been established in the area. The observation of Aboriginal sites in the proposed footprint is in alignment with what is to be expected of an area with these environmental features: the sites identified during previous surveys include shell middens.

5. CULTURAL CONTEXT

The way that perceptions, beliefs, stories, experiences and practices give shape, form and meaning to a landscape is termed a cultural landscape. An Aboriginal cultural landscape is 'a place or area valued by an Aboriginal group (or groups) because of their long and complex relationship with that land. It expresses their unity with the natural and spiritual environment and embodies their traditional knowledge of spirits, places, land uses, and ecology'. Material remains of the association may be prominent, but will often be minimal or absent (DECCW, 2010). The physical evidence of Aboriginal use of the landscape (such as campsites and art sites), stories and mythology, cultural resources and the landscape itself provide strong cultural links with the past for the present-day Aboriginal community (OEH, 2015).

Just as there is connectivity between all parts of natural ecosystems (plants, animals, soils and water), there is connectivity between cultural objects and places through past human behaviour patterns. The cultural landscape concept emphasises the landscape scale of history and the connectivity between people, places and heritage items. It recognises that the present landscape is the product of long term and complex relationships between people and the environment. Aboriginal cultural landscapes are comprised of:

- Significant biodiversity and a diverse range of ecological systems and associations, all of which contributed to the continuing existence of Aboriginal peoples in the region over many thousands of years, and which are valued in different ways by Aboriginal communities today;
- Material remains of this continuing occupation in the form of a diverse array of Aboriginal sites and places known to the Aboriginal communities, some of which will be recorded on the Aboriginal Heritage Information Management System;

- Extensive historical records from 1788 through to today which record observations of Aboriginal people and lifestyles, wars, massacres, social and cultural events, population census, social interactions, language, and which influence Aboriginal community values today; and
- An Aboriginal population made up of people who have traditional association and knowledge of the region, as well as others who live, work and play within the region, all of whom may attribute various values with the area, derived from the distant and recent past, through to the present day.

For Aboriginal people, the significance of individual landscape features is derived from their inter-relatedness within the cultural landscape. This means features cannot be assessed in isolation and any assessment must consider the feature and its associations in a holistic manner. This may require a range of assessment methods and will always require the close involvement and participation of Aboriginal people. By consulting with Aboriginal people and using the concept of cultural landscapes, the story behind the features can be told that demonstrates the associations that may exist between Aboriginal objects and other features within the landscape (DECCW, 2010).

Landscapes had social and symbolic dimensions for people and some locations with unusually high or low artefact densities may represent the influence of non-environmental (social and or symbolic) factors (White *and McDonald* 2010). Aboriginal people have cultural associations with the landscape of Australia deriving from a long pre-contact history, historical interactions during settlement and contemporary attachments.

Consultation was undertaken with Aboriginal Stakeholders in the area and in accordance with the ACHCRP. The contemporary submissions regarding the cultural landscape and previous use of the area are limited and discussed below. However, as stated by Wonaruah descendant, James Miller (1985):

> *The land held the key to life's secrets. Man was given the knowledge to read the land and for every rock, tree and creek he found an explanation for existence. He did not own the land, the land owned him.*

This statement summarises the interconnectedness that Aboriginal people have felt, and continue to feel, to their ancestral lands and accompanying cultural landscape.

5.1.1 Aboriginal History

Some discussion of Aboriginal history and associated land use within the region and local area is made above. The use of ethno historical records is often useful in attempting to reconstruct Aboriginal life at the time of the colonisation of Australia. However, these historical observations are from non-Aboriginal people incorporating their own bias and perspectives possibly leading to misinterpretation. Usual ethnographic information recorded about Aboriginal people at the time of European arrival include observations about Aboriginal material culture, such as clothing, adornments, body painting and piercings, weapons and tools. Hunting practices, foods consumed, ceremonial gatherings and associated practices, such as funerary beliefs and rites of passage, are also noted throughout the historical and anthropological record.

The study area in a local context can be associated with research in the broader area to define the history of the area. The broader regional area has provided finds of middens (Silcox 1999; Brayshaw 1988; Dallas 1982; Villiers 1981; Dyall 2004) and scatters (Baker 1994; Dyall 1980, 2004).

Other sites in the area include:

- Birubi Point Aboriginal Place. This Aboriginal Place is located at Anna Bay;
- Soldiers Point Aboriginal Place. This Aboriginal Place is located at Soldiers Point (3km south east of the study area). Soldiers Point has a continuous history of Aboriginal settlement and cultural activity, particularly fishing. It includes burials and a men's ceremonial area;
- Dark Point Aboriginal Place. This Aboriginal Place consists of 7km of coastline within the Myall Lakes National Park. It was a gathering and ceremonial place for clans of the Worimi and contains Aboriginal sites, objects and burials;
- Gooreenggai (North Arm Cove) Ceremonial Site. A men's ceremonial site consisting of stone arrangements and located on Baromee Hill; and
- Buladelah Mountain. An Aboriginal Place consisting of a variety of cultural sites and considered a spiritual place for Aboriginal ancestors.

Ethnographic accounts include:

5.1.1.1 Brayshaw, H. 1984, The Hunter Valley and its Aboriginal Inhabitants, An Ethno-historical Study. Report to Anutech Pty Ltd

The report undertook archival research to prepare a report looking at the cultural practices of Aboriginals and early European explorers and settlers in relation to their affect on the environment. The report is divided into sections – environment, people, material culture, diet and ritual life.

5.1.1.2 Brayshaw, H. 1986, Aborigines of the Hunter Valley – A Study of Colonial Records. Scone and Upper Hunter Historical Society, Scone, NSW

Brayshaw covers details of archaeology in the Hunter valley including site types, distribution and regional prehistory. Additional details covered include environment, people (social organisation, land tenure, tribal distribution and affiliations. Material culture, diet and rituals were also studied by Brayshaw.

5.1.1.3 Constable, J and Love, K. 2015, 'Aboriginal water values Gloucester subregion (NSW)', a report for the Bioregional Assessment Programme

The Cultural connections of the Worimi are described by Constable and Love (2015, pp. 11) as largely relates to customary history and usage, ecological value relating to fish and animal species, or economic value relating to food. Constable and Love (2015, pp. 12-13) also identified areas that are of interest including Karuah River as a meeting place, Seal Rocks as a tribal boundary, food sources including fish, shellfish species and turtles, as well as mangroves as a resource.

5.1.1.4 Enright, W.J. 1900. The Language, Weapons and Manufactures of the Aborigines of Port Stephens, N.S.W. Journal Royal Society New South Wales, XXXIV, 103-118

The article details the investigation that Enright undertook with reference to Kutthung grammar, vocabulary as well as adopted spelling. The weapons of the Kutthung were also documented with figures and individual descriptions.

5.1.1.5 Newcastle Regional Museum 2001, Aboriginal Dreaming Stories. Newcastle City Council

The document carries five dreaming stories from the Awabakal people. The Awabakal people covered an area including Newcastle, Lake Macquarie, Stockton, Fern Bay, down to Wyong (and coalfields area), Watagan Mountains to Wollombi.

5.1.1.6 Sokoloff, B. 1976, 'The Worimi: Hunter Gatherers at Port Stephens - Part VIII'. Raymond Terrace & District Historical Society

Sokoloff (1976) wrote that the Worimi people managed their resources with skill and initiative. Animals hunted on the coastline strip included possums, native bees, kangaroo, flying foxes, birds and kangaroo rats. The Worimi were swift and agile in climbing trees and killing with stones, spears or the throwing stick. Fishing was undertaken with fish hooks (made from shell), spears and lines. Worimi women created implements and utensils from bark, plant, shell and bone. No scarring or modification of trees attributable to Aboriginal people was found during the survey.

Other types of research document include Dyall (1982, 2004) who conducted a Birubi excavation and mentions consumption of terrestrial birds, mammals, reptiles, shellfish species and fish. The ABMS (2009) report details previous surveys is the area of the study area. The Condux Development which is the area of the current residential estate neighbouring the study area which revealed a shell midden. Another survey to the south west (2 km) identified a shell midden and two Chert flaked artefacts (Dallas 1982 cited by AMBS 2009).

5.1.2 Contemporary Cultural Accounts

The physical evidence of Aboriginal use of the landscape (such as campsites and art sites), stories and mythology, cultural resources and the landscape itself provide strong cultural links with the past for the present day Aboriginal community (OEH, 2015). Worimi and many other Aboriginal people have long cultural associations with the landscape of the region deriving from an extensive pre-contact history, historical interactions during settlement and contemporary attachments. Local Aboriginal people are currently researching and reclaiming their cultural practices of the past. Aboriginal people still reside in the area and continue to appreciate, care for and conserve their cultural practices.

Many of the local Aboriginal people identify as being part of the Worimi. The Worimi Local Aboriginal Land Council members are the Aboriginal custodians of the study area. It must also be considered that Aboriginal cultures were not static and that clan and tribal boundaries, language groups and dialects most likely changed over many thousands of years. Worimi has native title claims in the Port Stephens area, however one does not exist over the study area.

For the purposes of this archaeological assessment, and in accordance with current cultural practices, we will refer to the local Aboriginal people as the Worimi Aboriginal people. Advitech Environmental means no offence to any Aboriginal person in this regard and believes that identification of Aboriginal peoples, their traditional lands and their families are a cultural matter for Aboriginal people and separate from this archaeological assessment.

5.1.3 Cultural significance

The Burra Charter (2013) defines 'cultural significance' very broadly to include 'aesthetic, historical, scientific, social or spiritual value for past, present or future generations'. This definition captures places of cultural significance to Indigenous cultures. It also includes places that provide a physical location that is integral to the existence, observation and practice of intangible heritage. The Burra Charter definition of cultural significance encompasses all forms of spirituality, regardless of the culture from which it emanates. Similarly, aesthetic value is not limited to a 'western' perception of aesthetics (taken from ICOMOS Practice Note: The Burra Charter and Indigenous Cultural Heritage Management).

The 2015 ACHA of the site notes that some of the registered Aboriginal parties notes that the dunes running through the site were connected to a songline. The report also noted shell in the study area.

Other items discovered in the local and regional area include numerous middens and the places noted in **Section 4.**

6. SURVEY RESULTS

The survey was undertaken on 26 and 27 August, 2019 by representatives of the RAPs and archaeologist.

Following recommendations from DPIE in January 2019, and taking into account the previous 2014 field survey, sections of bush which had low disturbance were targeted. The disturbed tracks which were surveyed in the previous 2014 survey were surveyed and used as staging platforms for access to low disturbance/undisturbed bushland. It should be noted that most tracks had some regrowth and vegetation coverThe survey was recorded via GPS tracking and subdivided into transects 1 – 9 for the larger block and one transect form for the top block. (**Figure 5**). On average transect width averaged 15m with range decreasing/increasing depending upon the density of vegetation. Some transect widths decreased to approximately 2-5m and increased to approximately 20m.

Overall, 17.8 km was walked across the proposed sand mine. The individual transects equated to 15.6 km of the land. Current disturbances on the property include agricultural (orchard) and pastoral practices (cattle), industrial (powerlines/transmission lines and corridor) and residential. Access to the properties being investigated was readily available in most areas, however the survey did not enter fenced areas surrounding houses. The house compound on the main extraction site was noted to possess a small amount of visible shell, which was seen through a mesh fence.

Effective coverage was considered low in all survey units due to the leaf letter/vegetation blocking visual inspection of the ground. Effective coverage equalled 6.55% due to low visibility and exposure.

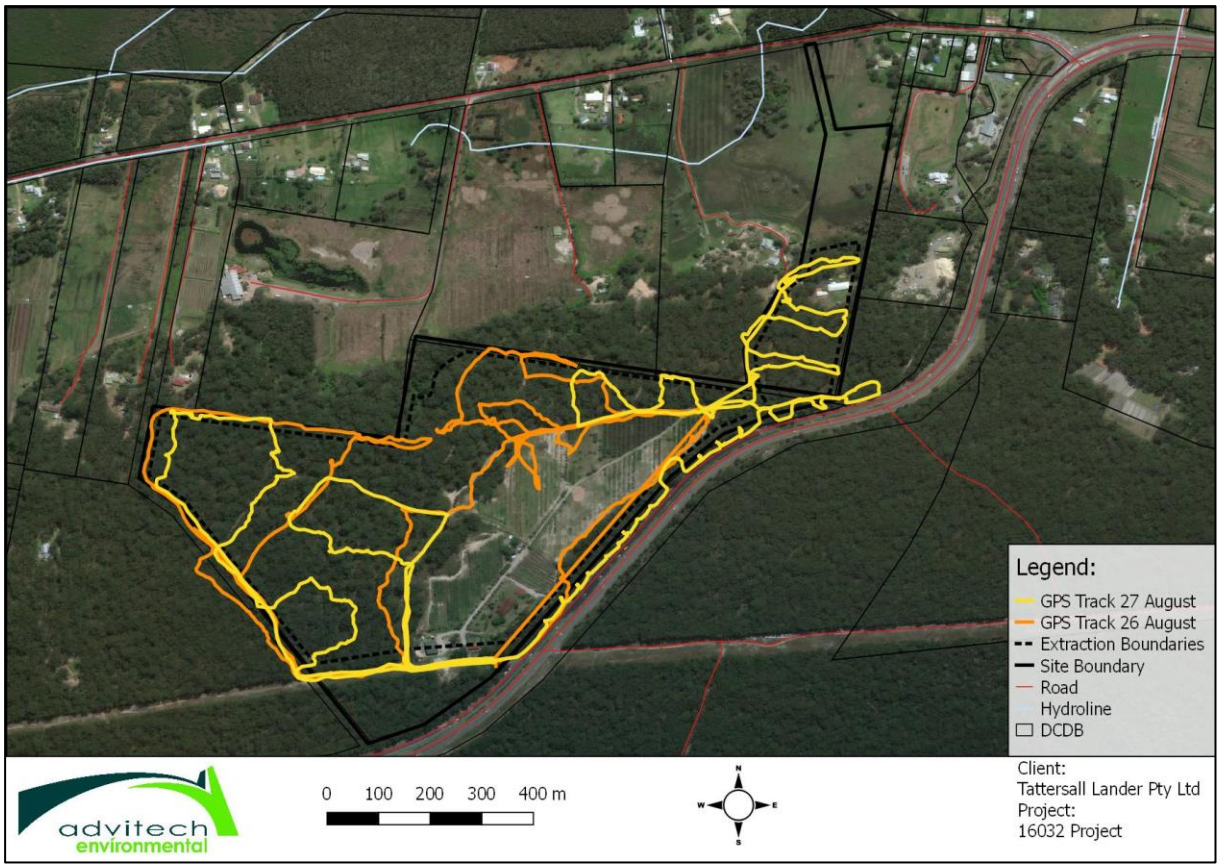


Figure 5: GPS Tracks from ACHA Survey 26 and 27 August, 2019

6.1 Survey Units

Landscape forms were divided into survey units (see **Figure 7**). Survey units within the study area are defined in **Table 9** and illustrated in **Figure 7**. The site is characterised by stabilised sand dunes.

Table 9: Survey Units

Survey Unit No./Name	Definition	Landforms	Disturbance
1	As indicated in **Figure 7**.	Upper and lower slopes with crests (contour range 10m - 30m).	Tracks, land clearing, industrial (powerlines), residential and agriculture
2	As indicated in **Figure 7**.	Upper and lower slopes with a contour range of 10m - 20m.	Tracks, land clearing, industrial (powerlines), residential and agriculture
3	As indicated in **Figure 7**.	Lower slope with contours range to 10m.	Tracks, land clearing, industrial (powerlines), residential and agriculture
4	As indicated in **Figure 7**.	Upper and lower slopes with crests (contour range 10m - 30m).	Tracks, land clearing, and agriculture

Survey Unit No./Name	Definition	Landforms	Disturbance
5	As indicated in **Figure 7**.	Upper and lower slopes with a contour range of 10m – 20m.	Tracks, land clearing, and agriculture
6	As indicated in **Figure 7**.	Upper and lower slopes with a contour range of 10m – 20m.	Tracks, land clearing, and agriculture
7	As indicated in **Figure 7**.	Upper and lower slopes with a contour range of 0m to 10m.	Tracks, land clearing, road reserve, and agriculture
8	As indicated in **Figure 7**.	Hillocks, crests, upper and lower slopes. Contour range 0m – 20m.	Tracks and land clearing (low disturbance).
9	As indicated in **Figure 7**.	Upper and lower slopes with a contour range of 10m – 20m.	Tracks and land clearing (low disturbance).
Top Block	As indicated in **Figure 7**.	Lower slopes with a contour range 0m – 20m.	Agriculture (cattle), tracks, residential and land clearing.

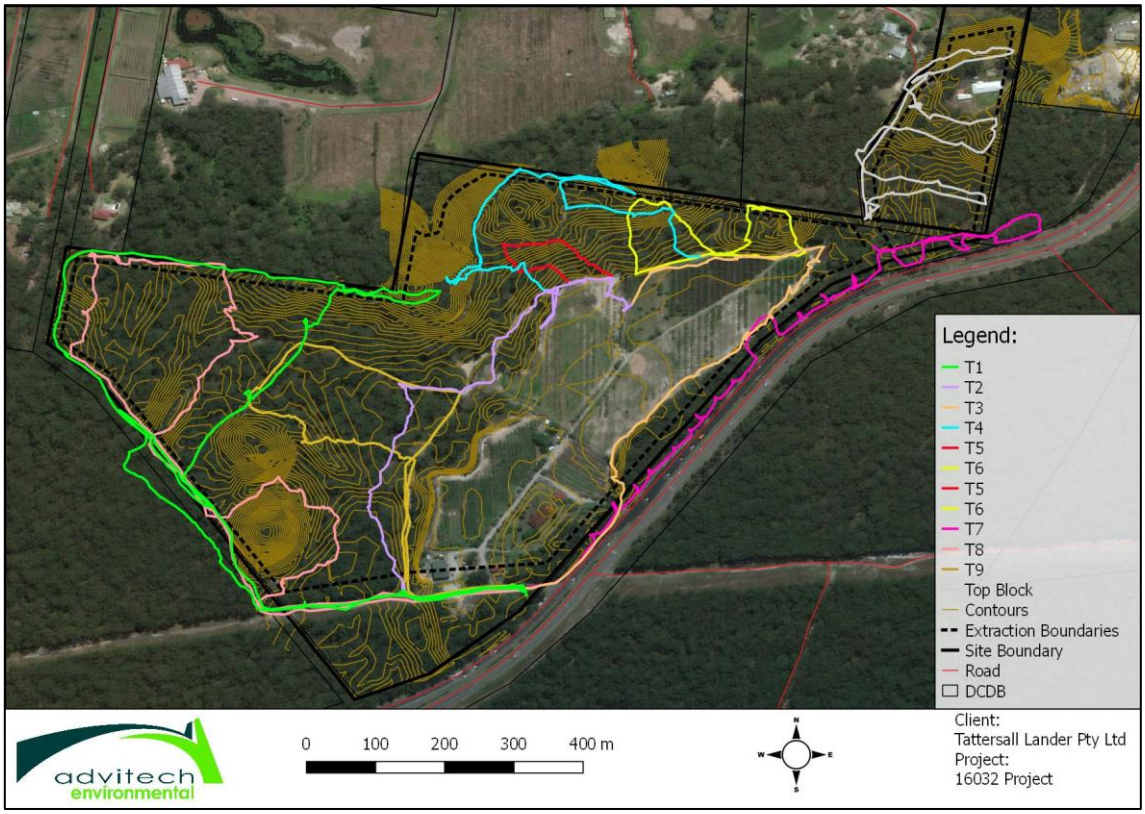


Figure 6: Survey unit map with contours

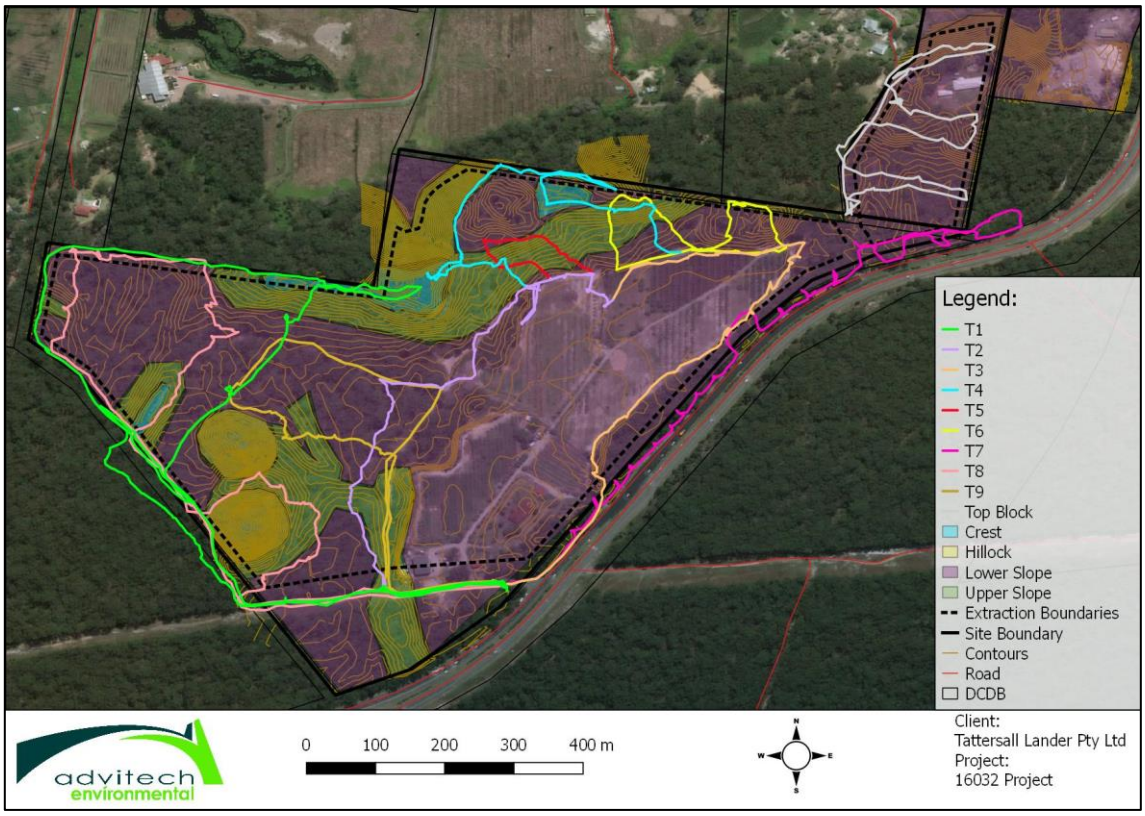


Figure 7: Transects with Approximate Landform Descriptions

6.1.1 Effective survey coverage

The detection of Aboriginal objects is dependent on a number of environmental factors including:

- surface visibility (which is determined by the nature and extent of ground cover including grass and leaf litter and so on);
- the survival of the original land surface and associated cultural materials; and
- the exposure of the original landscape and associated cultural materials (by water, sheet and gully erosion, ploughing, grazing, vehicle tracks and so on).

Combined, these processes and activities are used in determining the likelihood of both surface and subsurface cultural materials surviving and being detected. Effective coverage is known as an estimate of the amount of ground that could be observed during the survey taking into account local constraints on site discovery such as development, vegetation and soil cover. There are two components used to determine the percentage of the survey's effective coverage: visibility and exposure.

The first component in establishing effective coverage is to calculate the amount of ground exposure. Exposure is an estimate of the area with a likelihood of revealing subsurface cultural materials rather than just an observation of the amount of bare ground. Exposure is the percentage of land for which erosion and exposure is sufficient to reveal cultural materials on the surface (OEH 2010).

The second component is visibility. This is the amount of bare ground visible on exposures which may reveal artefacts or other cultural materials. Visibility is hampered by vegetation, plant or leaf litter, loose sand, stony ground or introduced materials (such as rubbish). On its own, visibility is not a reliable factor in determining the detectability of subsurface cultural materials (OEH 2010).

The effective coverage for the study area, on a survey unit basis, was determined for both visibility and exposure and **Table 10** details the calculations used. As indicated in **Table 10**, the effective coverage for the study area illustrates the overall effectiveness of the survey.

Table 10: Effective coverage

SU	Landform	Area (m^2)	Vis. %	Exp. %	Effective coverage area (m^2)	Effective coverage (%)
1	Upper and lower slopes with crests	72380	5%	5%	180.95	0.25
2	Upper and lower slopes	17858	5%	5%	44.645	0.25
3	Lower slope	20431	10%	10%	204.31	1
4	Upper and lower slopes with crests	11378	5%	5%	28.445	0.25
5	Upper and lower slopes	2561	5%	5%	6.4025	0.25
6	Upper and lower slopes	7135	5%	5%	17.8375	0.25
7	Upper and lower slopes	18224	5%	2%	18.224	0.1
8	Hillocks, crests, upper and lower slopes.	48384	5%	2%	48.384	0.1
9	Upper and lower slopes	15727	5%	2%	15.727	0.1
Top Block	Lower slopes	18411	20%	20%	736.44	4
Total effective coverage					1301.365	6.55

A discussion of each survey unit, effective coverage and disturbances, past and present follows:

Survey Unit 1 – T1

This survey unit relates to transect 1 (T1). The total length was 3499m with a width between 5 to 20m. Land use/disturbance inlcuded tracks, land clearing, industrial (powerlines), agriculture and residential. The landform was representative of a stabilised sand dune with the search area featuring upper slopes, lower slopes and crests (contour range 10m - 30m). The visibility and exposure were low at 5%. It was noted that habitat trees had been recorded/marked in the area and one tree was consider to have potentially cultural modifications in two locations and a second tree which was deemed less likely to possess a cultural modification (see **Appendix IV**).

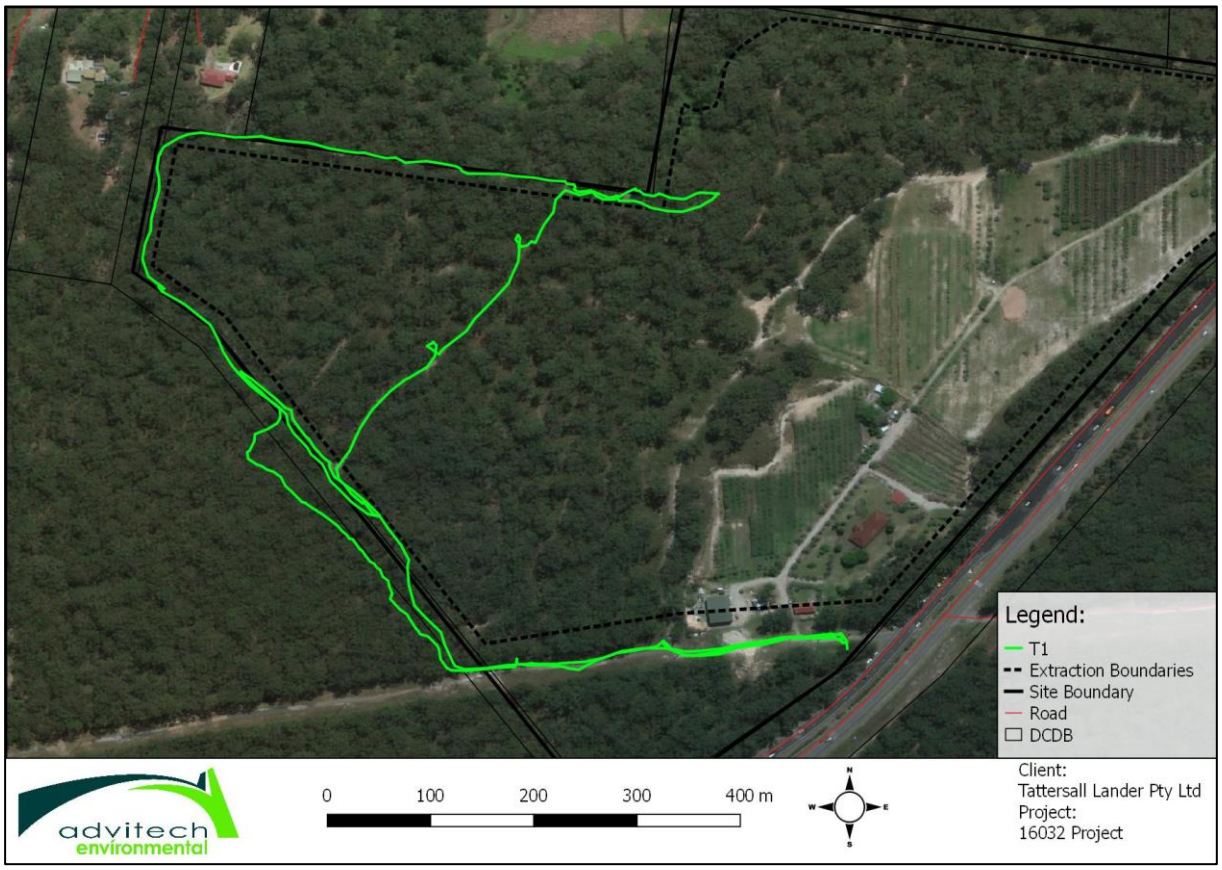


Figure 8: T1 GPS Tracks 26 August, 2019

Survey Unit 2 – T2

Survey unit 2 (T2 transect) was recorded as 1109m long with a width ranging between 5 -20m. Land use included tracks, land clearing and agriculture. The landform was representative of a stabilised sand dune featuring upper and lower slopes with a contour range of 10m – 20m and low visibility and exposure at 5%. The section of the transect that was in proximity to the cleared land/agricultural orchard displayed fragments of bone and shell. shell fragment came from two exposed banks (photos in **Appendix IV**), Other shell fragments and small animal bones were located in the orchard in exposed/previously cleared areas. Shell fragments included whelk, cockle and oyster, which is consistent with the 2014 survey records. A small bleached snail shell was also located under a tree in dried grass. It is estimated land clearing and agricultural practices have severely deteriorated the integrity of the finds.

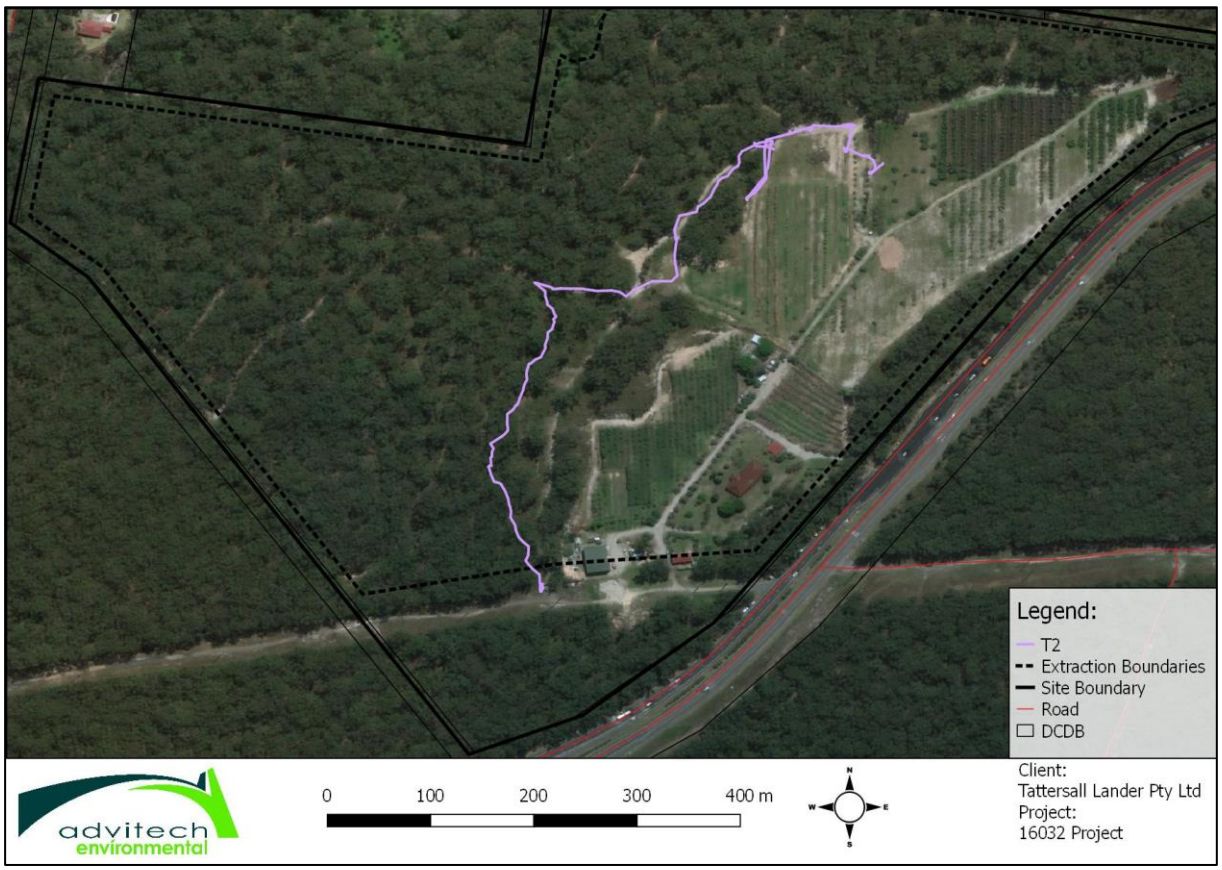


Figure 9: T2 GPS Tracks 26 August, 2019

Survey Unit 3 – T3

Transect T3 (survey unit 3) was recorded at 1204m long with an average width of 15m. The width did narrow at the southern end when skirting a fence line and disturbed area. Inside the fence line some shell was visible on disturbed surfaces. Land use/disturbance attributed to tracks/ land clearing, industrial (powerlines), agriculture and residential, with connection to the stabilised dune landform through the lower slope which has a contour range to 10m. Visibility and exposure depending upon the level of disturbance ranged from 5% to 20%. Similar to survey unit T2 the exposed/disturbed areas showed evidence of shell fragments and bone. This diffuse scatter of shell and bone spanned approximately 60m long by 10m wide along the eastern property boundary. This exposure and span are likely related to land clearing and continued agricultural practices. The whole of T3 can be characterised as having fragments of shell and bone exposed, given the expanse and disturbed nature of the area cultural connections to the origin of the material cannot be accurately determined.

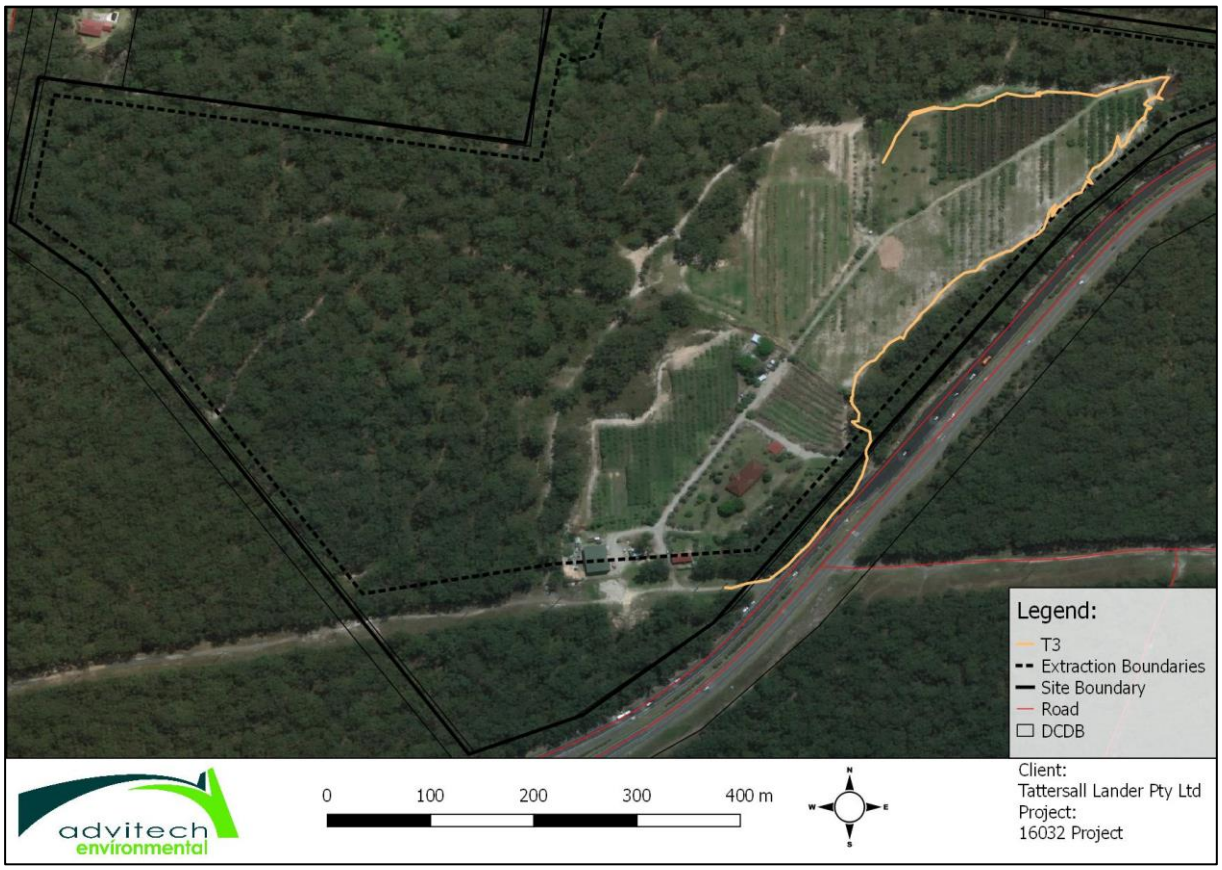


Figure 10: T3 GPS Tracks 26 August, 2019

Survey unit 4 – T4

Survey unit Transect T4 was 1055m long with a maximum width of 15m. T4 featured the upper slopes, lower slopes and crests (contour range 10m - 30m). The landform is indicative of a stabilised sand dune with disturbance from land clearing for tracks and elements of agricultural practices. Visibility and exposure were considered low (5%) within T4 with marginal improvement when a track was intersected, however many tracks showed disuse and regrowth/vegetation cover. During the T4 transect notes included dense vegetation with tracks close to the property boundary, some shell was identified on disturbed tracks however this is characteristic of evidence across the site of disturbance leading to shell discovery and consistent with the 2014 survey results.

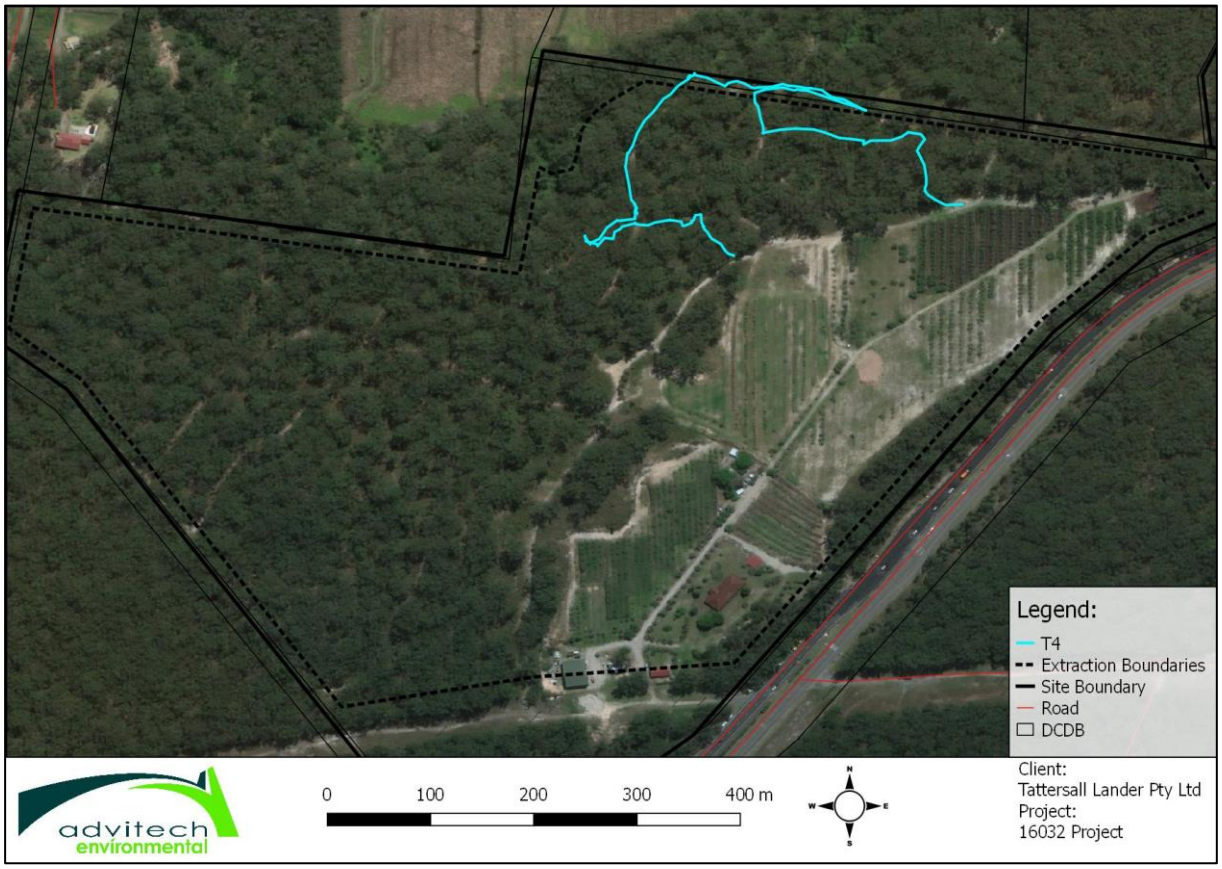


Figure 11: T4 GPS Tracks 26 August, 2019

Survey Unit 5 – T5

The transect T5 (survey unit 5) was recorded as 324m long and included stabilised sand dune upper and lower slopes with a contour range of 10m – 20m. The transect width was up to 15m with a low visibility and exposure rated at 5%. Land use/disturbance inlcuded agriculture, land clearing and tracks. The transect featured dense bush. No sites or PADs were recorded in this transect.

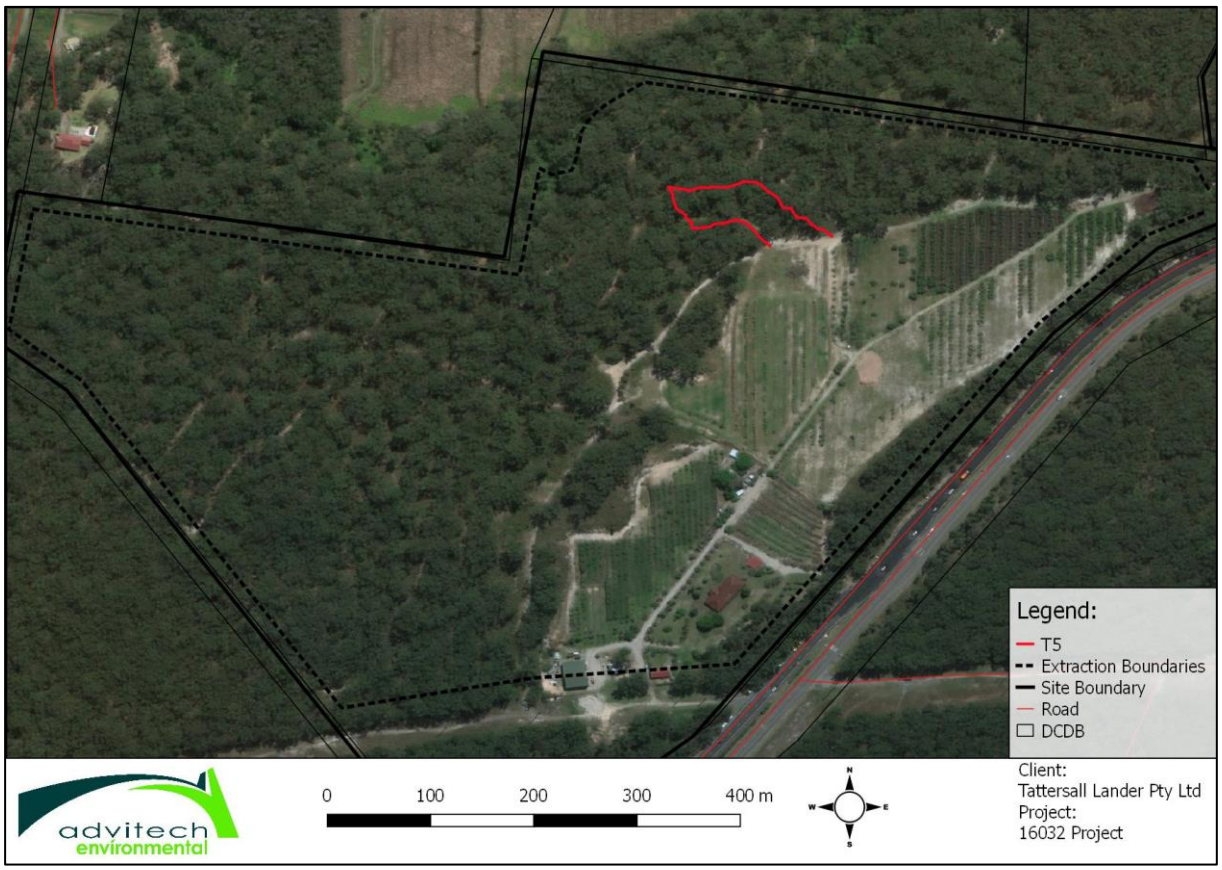


Figure 12: T5 GPS Tracks 26 August, 2019

Survey Unit 6 – T6

The T6 survey unit undertaken on the second day of surveys was recorded as 824m long with a transect width of 5m to 10m. Visibility and exposure was considered low at 5%, the transect crossed the stabilised sand dune upper and lower slopes with a contour range of 10m – 20m. Land use/disturbance included agricultural practices, land clearing, tracks and fencing. During the survey it was noted by one of the RAPs that Mat Rush (*Lomandra*) was present and that it was cultivated by Aboriginal people and used for food and weaving.

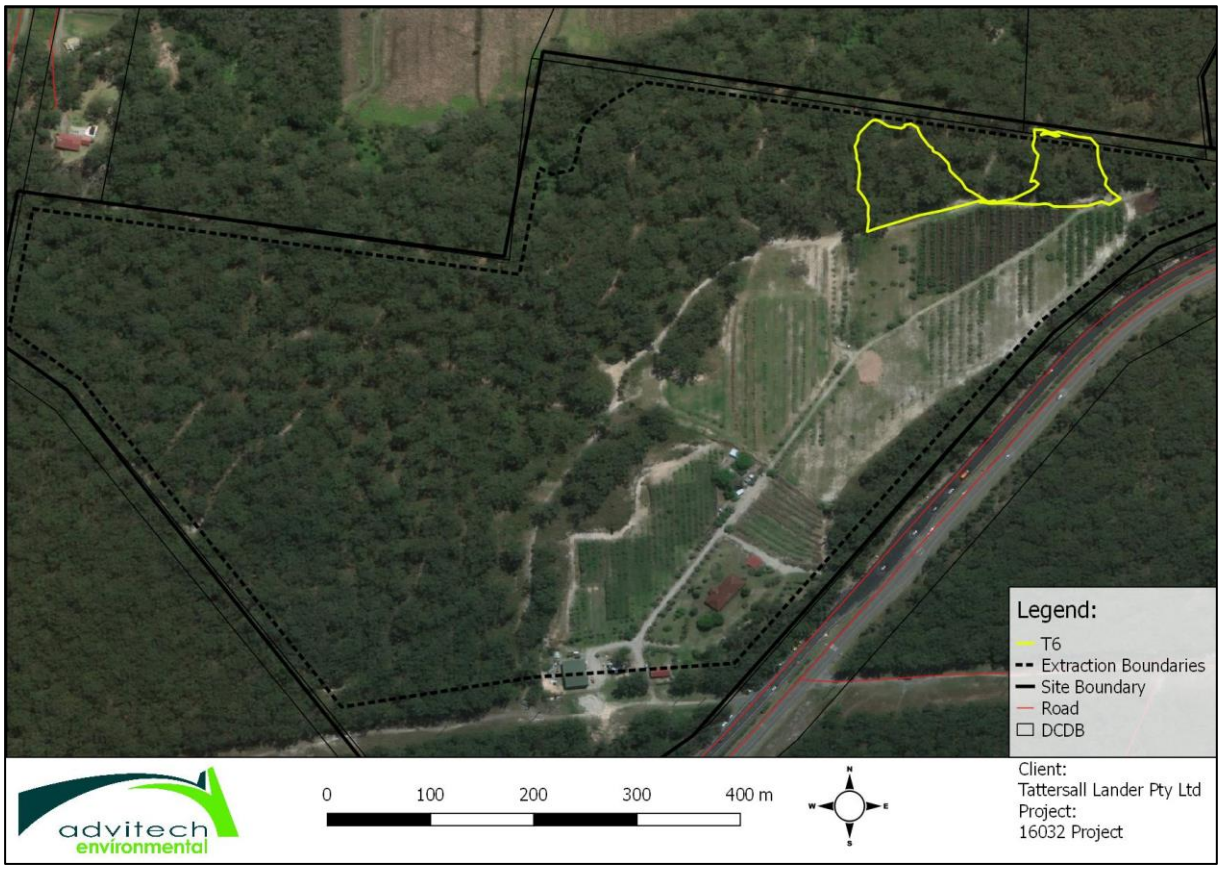


Figure 13: T6 GPS Tracks from 27 August, 2019

Survey Unit 7 – T7

The survey unit T7 was recorded as 1657m with a width of 2m to 5m. Visibility and exposure was considered to be extremely low averaging between 0% to 5%. This transect occurred mainly within the road reserve and cross into the property irregularly Due to the disturbed nature of the transect (evidence for disturbance from the road reserve/road, tracks/land clearing, property boundary and Optus fibre optic cable), a random sample methodology was chosen. Native Passionfruit was located in the road reserve. No evidence of cultural material was located. When discussing the transect upon completion with the RAPs, it was suggested a potential visit when clearing occurs could be beneficial to site discovery/assessment.

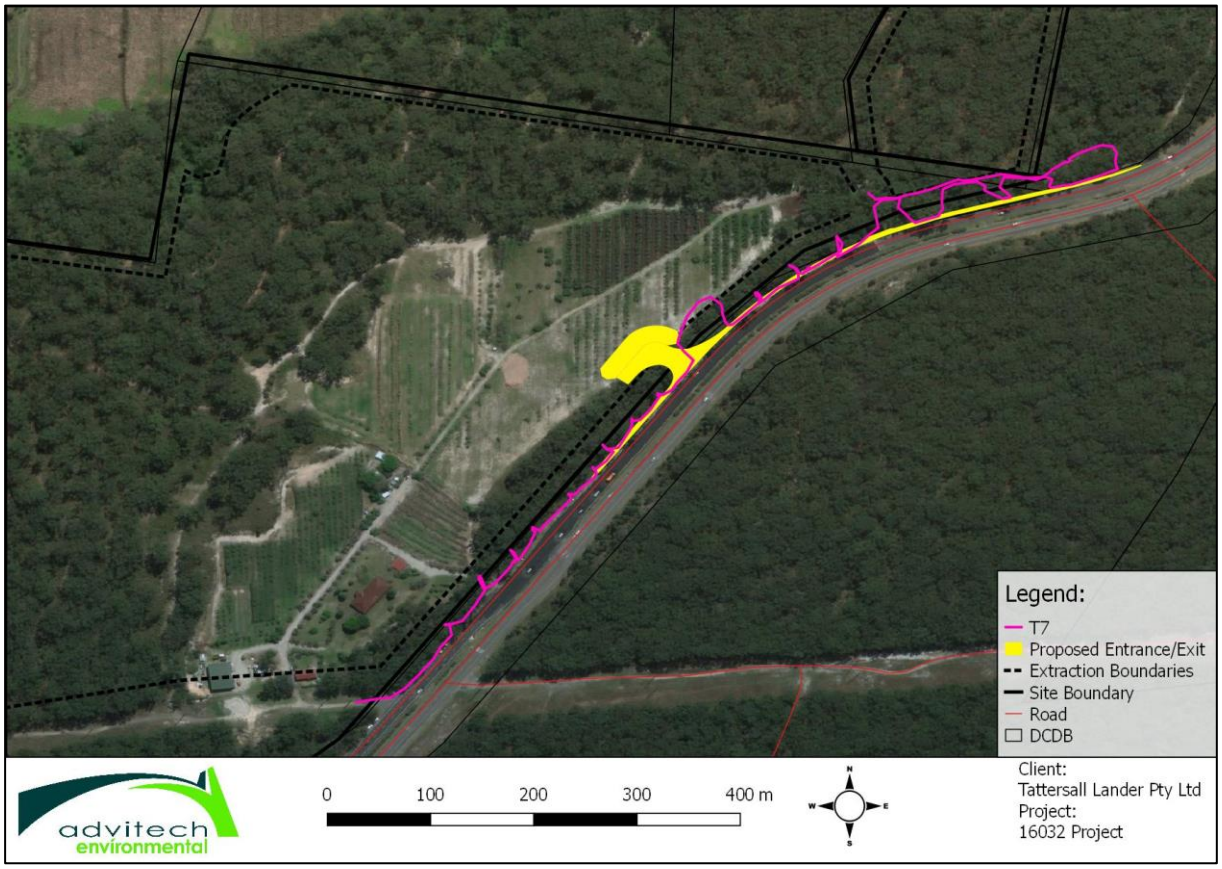


Figure 14: T7 GPS Tracks 27 August, 2019

Survey Unit 8 – T8

The T8 survey unit covered 2780m and averaged a width between 5m to 15m. The landforms encountered included Hillocks, crests, upper and lower slopes with a contour range 0m – 20m. The disturbance was relatively low in the majority of the T8 with the exception being powerline transmission corridor used as access and tracks cleared through the vegetation. Visibility and exposure are considered 0% to 5%. No sites or PADs were identified in this transect.

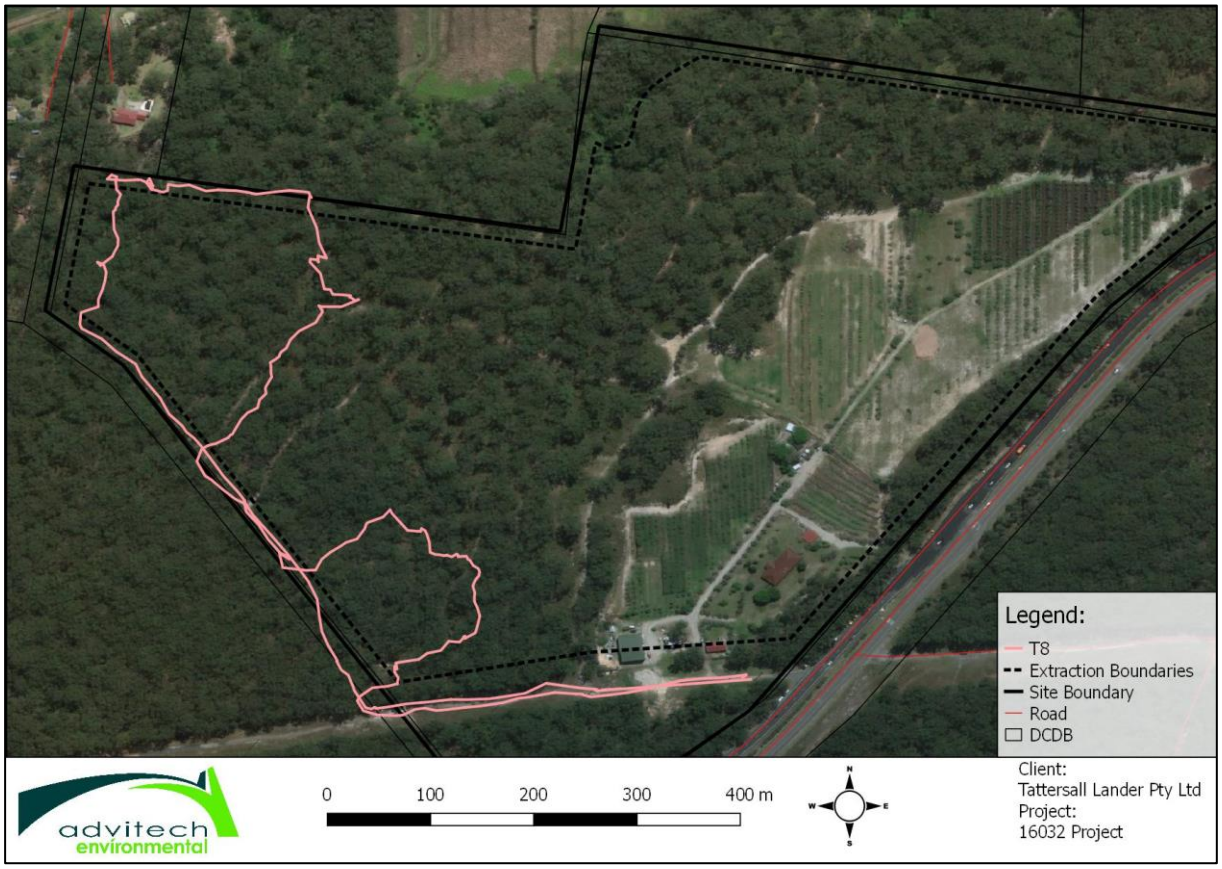
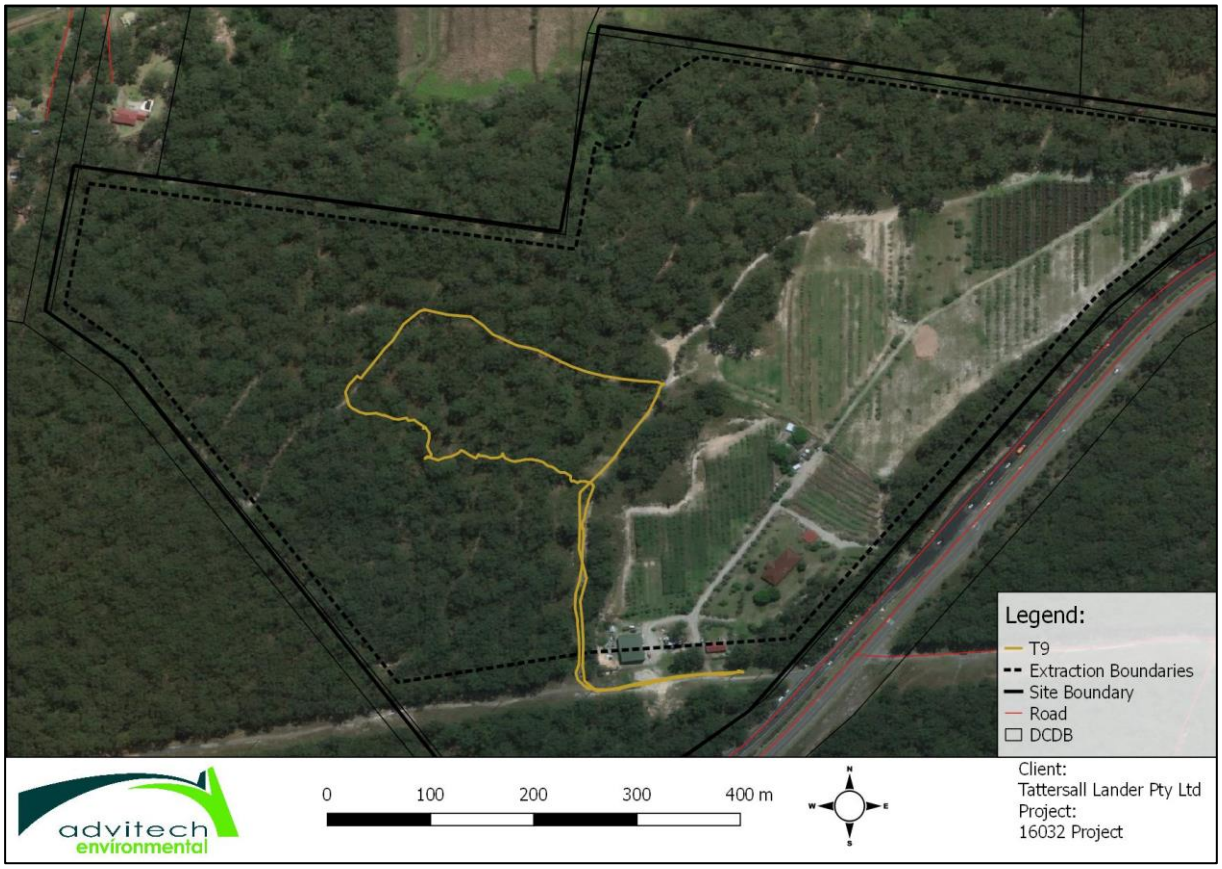


Figure 15: T8 GPS Tracks 27 August, 2019

Survey Unit 9 – T9

The survey unit 9 -T9 was recorded as 1563m long, with a maximum width of 15m. Visibility was considered extremely low at 0% to 5%. The transect encountered upper and lower slopes with a contour range of 10m – 20m. Disturbance/land use included powerline transmission corridor, residential influences (access, fencing), agricultural influences and tracks cleared through the vegetation. No sites or PADs were identified in this transect.



Survey Unit 10 – Top Block

The top block was kept as a separate transect and this equalled 1631m with a width of 10m to 15m. Due to agricultural practices (evidence of cattle) the visibility and exposure were greatly increase to 20%. Other disturbance/land use included residential tracks, fencing and land clearing. It was noted in a few spots fresh shell (predominantly oyster) this still had colour remaining and was present on the access track/driveway. Some older shell was evident (whelk and cockle) in disturbed areas such as tracks and garden beds. Also noted were three trees within a 10m radius all bearing at least one mark (see **Appendix IV**). A tree in the vicinity had a fresh mark with destroyed bark hanging from the bottom of the hole/scar and a second tree further south had a scar, however when discuss it was deemed unlikely due to the deep fissure of the scar.

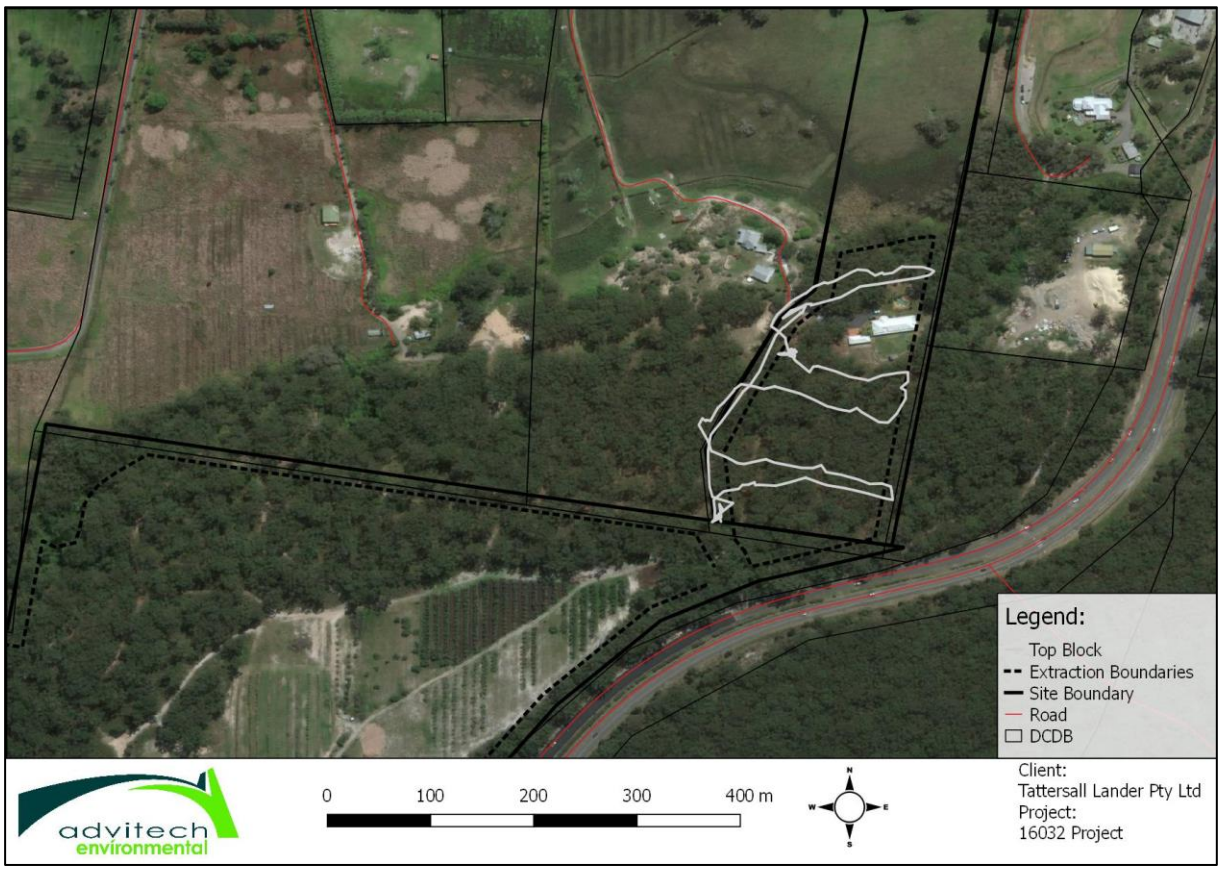
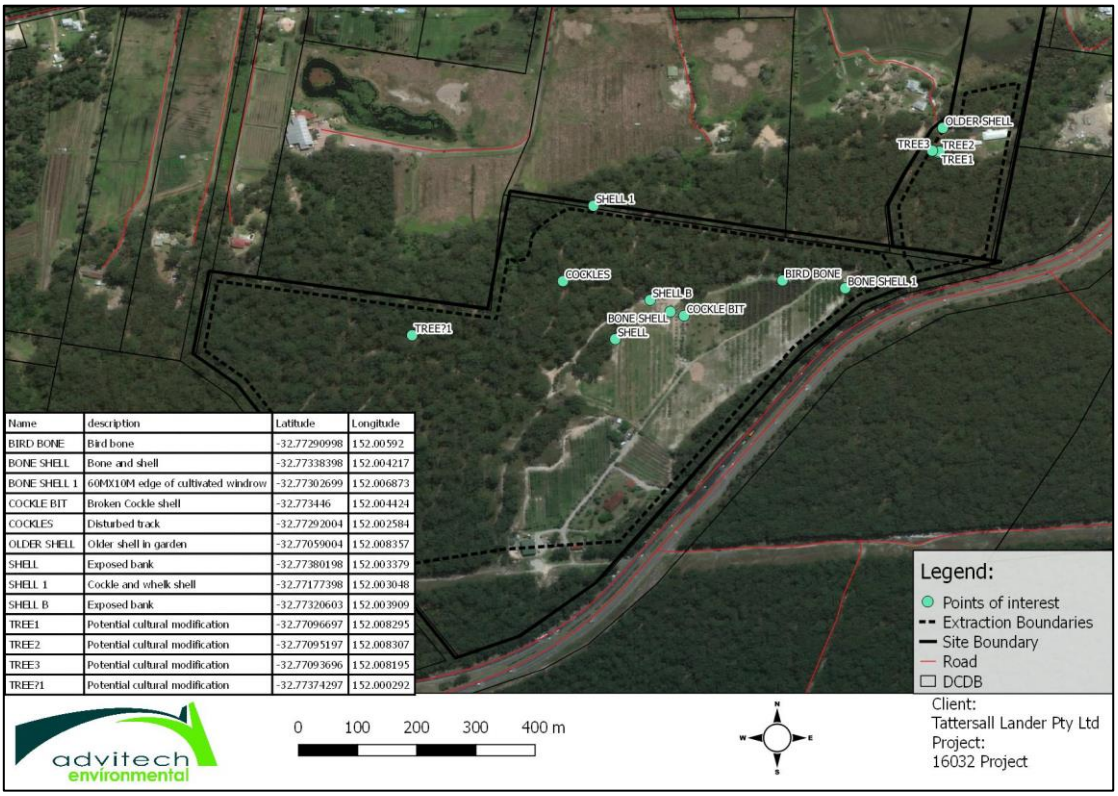


Figure 16: Top Block GPS Tracks 27 August, 2019

6.2 Sites identified in the project area

The registered AHIMS sites are shell that has likely been disturbed from the origin context. Other shell finds across the proposed sand mine site also appear to have a disturbed context. Trees noted as having potential cultural modifications did not appear to have axe marks visible, though the majority of suspect trees were hollow and did not have a dry face present, as well as having evidence of fire, pest damage and recent human damage (metal peg/nail). Bone fragments are low in discovery however may not have the same origin as the shell as it appears to be only found in orchard area. An intact bird skeleton was noted during the ACHA survey and predatory animals such as snakes were also seen, this leads to some speculation that the bones may be more recent than the shell deposits given the lesser number of finds. Whilst the shell predominantly represents Whelk, Cockle and Oyster shells (as found in AECOM 2015 ACHA report (2014 survey)) and these have been recorded as being a food source, the disturbed context of shell finds is predicted to lower the archaeological values of the finds. Nonetheless, this does not necessarily lower any cultural connections. **Figure 17** displays locations of located shell, trees and bone. See **Appendix IV** for photographs and **Table 11** for impact assessment.



Name	description	Latitude	Longitude
BIRD BONE	Bird bone	-32.77290998	152.00592
BONE SHELL	Bone and shell	-32.77338398	152.004217
BONE SHELL 1	60MX10M edge of cultivated windrow	-32.77302699	152.006873
COCKLE BIT	Broken Cockle shell	-32.773446	152.004424
COCKLES	Disturbed track	-32.77292004	152.002584
OLDER SHELL	Older shell in garden	-32.77059004	152.008357
SHELL	Exposed bank	-32.77380198	152.003379
SHELL 1	Cockle and whelk shell	-32.77177398	152.003048
SHELL B	Exposed bank	-32.77320603	152.003909
TREE1	Potential cultural modification	-32.77096697	152.008295
TREE2	Potential cultural modification	-32.77095197	152.008307
TREE3	Potential cultural modification	-32.77093696	152.008195
TREE?1	Potential cultural modification	-32.77374297	152.000292

Figure 17: Map and coordinates (WGS84) of finds (bone, shell and trees)

6.3 Summary

The project area already had five registered AHIMS sites all shell scatters located on disturbed surface areas. The additional finds of shell also have a disturbed surface context and further investigation is recommended to determine if the shell has a subsurface connection. Animal bone located in the orchard area is suggested to be have a modern context and relates to the orchard and natural life cycle. The modified trees noted as having potential cultural modifications did not appear to have axe marks visible, though the majority of suspect trees were hollow and did not have a dry face, as well as having evidence of fire, pest damage and recent human damage. Management of heritage items will be confirmed as part of the Aboriginal Cultural Heritage Management Plan.

7. IMPACT ASSESSMENT

The DPIE (formerly DECCW) *Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales* (2010b, p. 21) describes impacts to be rated as follows:

1. Type of harm: is either direct, indirect or none;
2. Degree of harm is defined as either total, partial or none; and
3. Consequence of harm is defined as either total loss, partial loss, or no loss of value.

7.1.1 Potential Impacts

The potential impacts to the site could affect:

- Registered AHIMS sites;
- Unknown sites;
- Sites lacking proof of origin; and
- Intangible connections.

Table 11: Impact Assessment

Site ID	Site type	Type of harm	Degree of harm	Consequence of harm	Representative	Research potential	Scientific potential
38-4-2016	Shell	Direct	Total	Total loss	Well represented	Low	Low
38-5-0350	Shell	Direct	Total	Total loss	Well represented	Low	Low
38-5-0351	Shell	Direct	Total	Total loss	Well represented	Low	Low
38-5-0352	Shell	Direct	Total	Total loss	Well represented	Low	Low
38-5-0353	Shell	Direct	Total	Total loss	Well represented	Low	Low
	Modified Trees	Direct	Total	Partial loss	Moderate	Moderate	moderate
	Animal Bone	Direct	Total	Total loss	Well represented	Low	Low

This impact assessment is based on highly disturbed sites with surface shell scatters. Following the findings of further shell across the site all in a disturbed context, further subsurface investigation is advised to determine if the origin of the material is below ground where the shell is currently situated or has been relocated to the current location through other means. Other items such as animal bone and modified trees should be addressed in the Aboriginal Cultural Heritage Management Plan.

8. SIGNIFICANCE ASSESSMENT

8.1 Cultural Significance

The Burra Charter (2013) defines 'cultural significance' very broadly to include 'aesthetic, historical, scientific, social or spiritual value for past, present or future generations'. This definition captures places of cultural significance to Indigenous cultures. It also includes places that provide a physical location that is integral to the existence, observation and practice of intangible heritage. The Burra Charter definition of cultural significance encompasses all forms of spirituality, regardless of the culture from which it emanates. Similarly, aesthetic value is not limited to a 'western' perception of aesthetics (taken from ICOMOS Practice Note: The Burra Charter and Indigenous Cultural Heritage Management).

8.1.1 Aesthetic Significance

The Burra Charter (2013) defines 'aesthetic significance' as the sensory and perceptual experience of a place which includes visual, sound, smell and other strong influences on human attitudes, feelings and thoughts.

8.1.2 Historic Significance

The Burra Charter (2013) defines 'historic significance' though aspects such aesthetics, architecture, art, science, society and spirituality. Additionally, the historical value may have an influence or may have been influenced by events.

8.1.3 Scientific Significance

The Burra Charter (2013) defines 'scientific significance' as relating to information and data such as rarity, quality, representativeness, potential to contribute to knowledge and answer research questions.

8.1.4 Social/Spiritual Significance

The Burra Charter (2013) defines 'social and spiritual significance' as the association with a particular community or cultural group as well as meanings, values and practices that could contribute to an identity, community or cultural group. This could relate to physical or intangible connections.

Table 12: Significance Assessment

	38-4-2016	38-5-0350	38-5-0351	38-5-0352	38-5-0353	Material (shell and bone)	Potential Modified Trees
Aesthetic	Low	Low	Low	Low	Low	Low	Moderate
Historic	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate
Scientific	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate
Social/Spiritual	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate
Rationale: Based on this assessment the disturbed nature of all shell and bone located does not allow for contextual analysis. As this may have been relocated through land use such as agriculture, the surface finds are not sufficient evidence. Using the local and community consultation the shell has potential to be connected to cultural origins. It is recommended that further subsurface is undertaken to provide additional supporting evidence to the cultural context of the shell.							

9. RECOMMENDATIONS

Following the survey and ongoing consultation with DPIE in regards to determination of the project, it is the recommendation of this report that an AHIP be sought and subsurface testing undertaken at targeted locations across the site. This should be undertaken in consultation with RAPs and DPIE. Further to this, once results from subsurface testing have determined the level of likely impact and following DPIE advice, an Aboriginal Cultural Heritage Management Plan should be drafted and approved by DPIE and RAPs. This should include an unexpected finds procedure, storage location for any salvaged items and a potential inclusion of cultural monitoring when initial vegetation clearing occurs after the project approval under State Significant Development status.

10. AHIP

DPIE recommended in January 2019 that subsurface testing occur in the relatively undisturbed Aeolian soil profiles associated with Ridge 1 transgressive dune and in particular sites BF-SC4-14 and BF-SC5-14. The intention of this report is to apply for an AHIP to undertake subsurface testing to determine the extent of shell and disturbance levels. The application area for the AHIP will be lots 254 DP853204 and 51 DP 1015671 (**Figure 18 and Table 13**). AHIMS sites that will be affected are referenced in **Table 14**.

Table 13: AHIP application area coordinates

Point	Latitude	Longitude	Point	Latitude	Longitude
1	-32.773999	152.00622	14	-32.773257	152.007135
2	-32.777505	152.003084	15	-32.772391	152.007597
3	-32.778312	152.00194	16	-32.771767	152.00752
4	-32.778651	152.00095	17	-32.771285	152.007773
5	-32.775585	151.998495	18	-32.770599	152.008194
6	-32.774496	151.997636	19	-32.77038	152.008475
7	-32.774022	151.996958	20	-32.768032	152.008925
8	-32.772765	151.997207	21	-32.766474	152.008556
9	-32.773336	152.001442	22	-32.766442	152.008743
10	-32.771549	152.001779	23	-32.767946	152.009098
11	-32.772172	152.006027	24	-32.767863	152.010074
12	-32.772623	152.009254	25	-32.769286	152.009802
13	-32.772917	152.007976	26	-32.772607	152.009143

Table 14: Description of impact to AHIMS sites

AHIMS site ID	Type of harm	Degree of harm	Reason
38-5-0217	Test excavation	Partial	Site on adjacent property. The site connects to site 38-5-0353 which will be impacted.
38-5-0352	Test excavation	Whole	Totally within site boundary
38-4-2016	Test excavation	Whole	Totally within site boundary
38-5-0350	Test excavation	Whole	Totally within site boundary
38-5-0351	Test excavation	Whole	Totally within site boundary
38-5-0353	Test excavation	Whole	Totally within site boundary

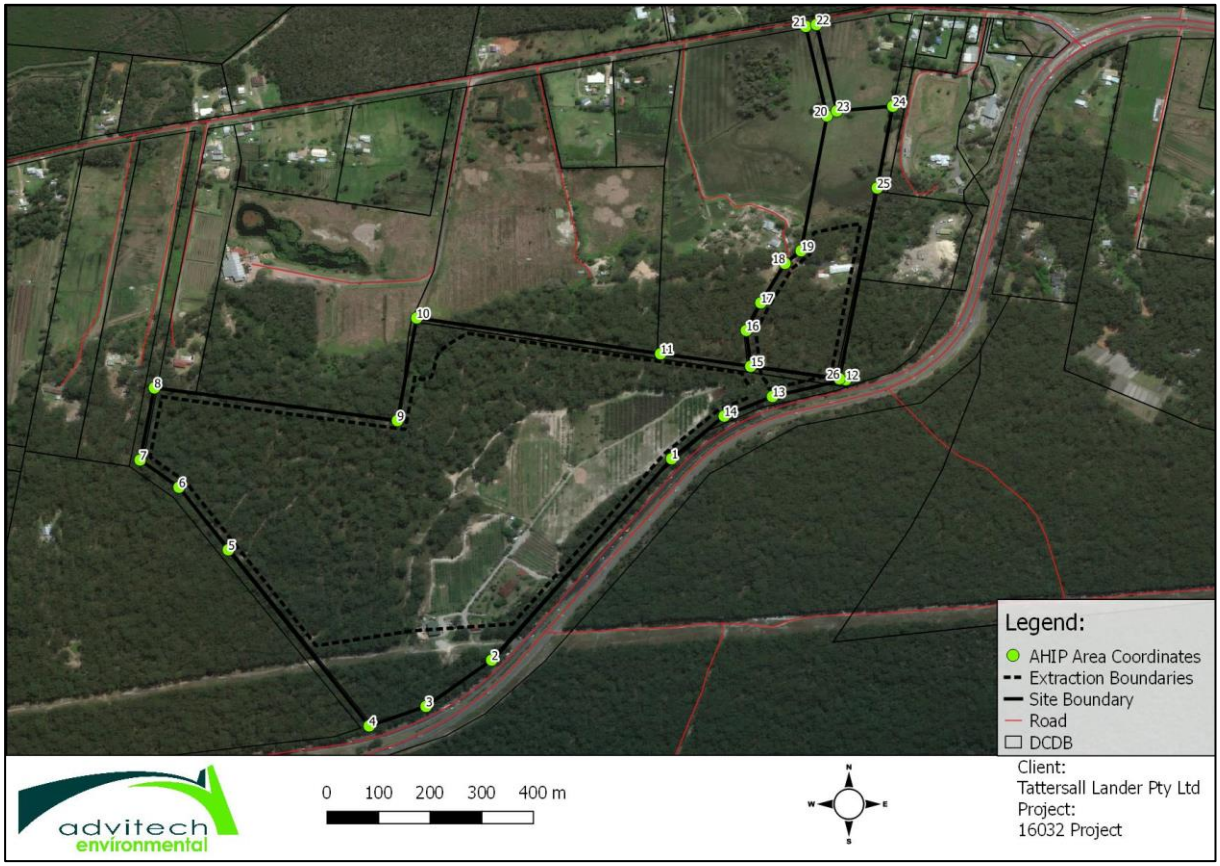


Figure 18: AHIP application area

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APPENDIX I: AHIMS Extensive Search and Site Cards

NOT FOR PUBLIC DISCLOSURE

AHIMS Web Services (AWS)
Search Result

Purchase Order/Reference : Bobs Farm sand

Client Service ID : 414107

Advitech Pty Limited
PO Box 207
Mayfield New South Wales 2304
Attention: Rod Bennison
Email: rod.bennison@advitech.com.au

Date: 11 April 2019

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -32.7786, 151.9969 - Lat, Long To : -32.767, 152.0154 with a Buffer of 50 meters. Additional Info : AHIP and Salvage methodology. conducted by Rod Bennison on 11 April 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:

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

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date .Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

3 Marist Place, Parramatta NSW 2150
Locked Bag 5020 Parramatta NSW 2220
Tel: (02) 9585 6380 Fax: (02) 9873 8599

ABN 30 841 387 271
Email: ahims@environment.nsw.gov.au
Web: www.environment.nsw.gov.au

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : Bobs Farm sand

Client Service ID : 414107

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0304	Marsh Rd 1;	AGD	56	406000	6373400	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	1845,102218
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-4-0309	M 1;	AGD	56	406400	6372700	Open site	Valid	Shell : -, Artefact : -	Midden	1845
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-4-0310	M 2;	AGD	56	406200	6372700	Open site	Valid	Shell : -, Artefact : -	Midden	1845,102218
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-5-0217	Tomaree 1	AGD	56	406900	6373550	Open site	Valid	Shell : 1		
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-5-0218	Tomaree 2	AGD	56	407400	6373750	Open site	Destroyed	Shell : 1		100163,102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**	2197,3621	
38-5-0208	Nelson Bay Road PAD1	AGD	56	406598	6372775	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	Contact	**Recorders**	MCH - McCardle Cultural Heritage Pty Ltd					**Permits**	1388	
38-5-0234	PAD 5: Tomaree to Tomago	AGD	56	407009	6373900	Open site	Valid	Potential Archaeological Deposit (PAD) : 0		98386,98387
	Contact	**Recorders**	MCH - McCardle Cultural Heritage Pty Ltd,ERM - Thornton					**Permits**		
38-5-0257	Tomaree 2a	AGD	56	407400	6373700	Open site	Valid	Shell : -		
	Contact Searle	**Recorders**	Ms.Penny Mccardle					**Permits**		
38-5-0258	Tomaree 2b	AGD	56	407400	6373700	Open site	Valid	Shell : -		
	Contact Searle	**Recorders**	Ms.Penny Mccardle					**Permits**		

Report generated by AHIMS Web Service on 11/04/2019 for Rod Bennison for the following area at Lat, Long From : -32.7786, 151.9969 - Lat, Long To : -32.767, 152.0154 with a Buffer of 50 meters. Additional Info : AHIP and Salvage methodology. Number of Aboriginal sites and Aboriginal objects found is 9

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)
Search Result

Purchase Order/Reference : Bobs Farm SM update

Client Service ID : 446061

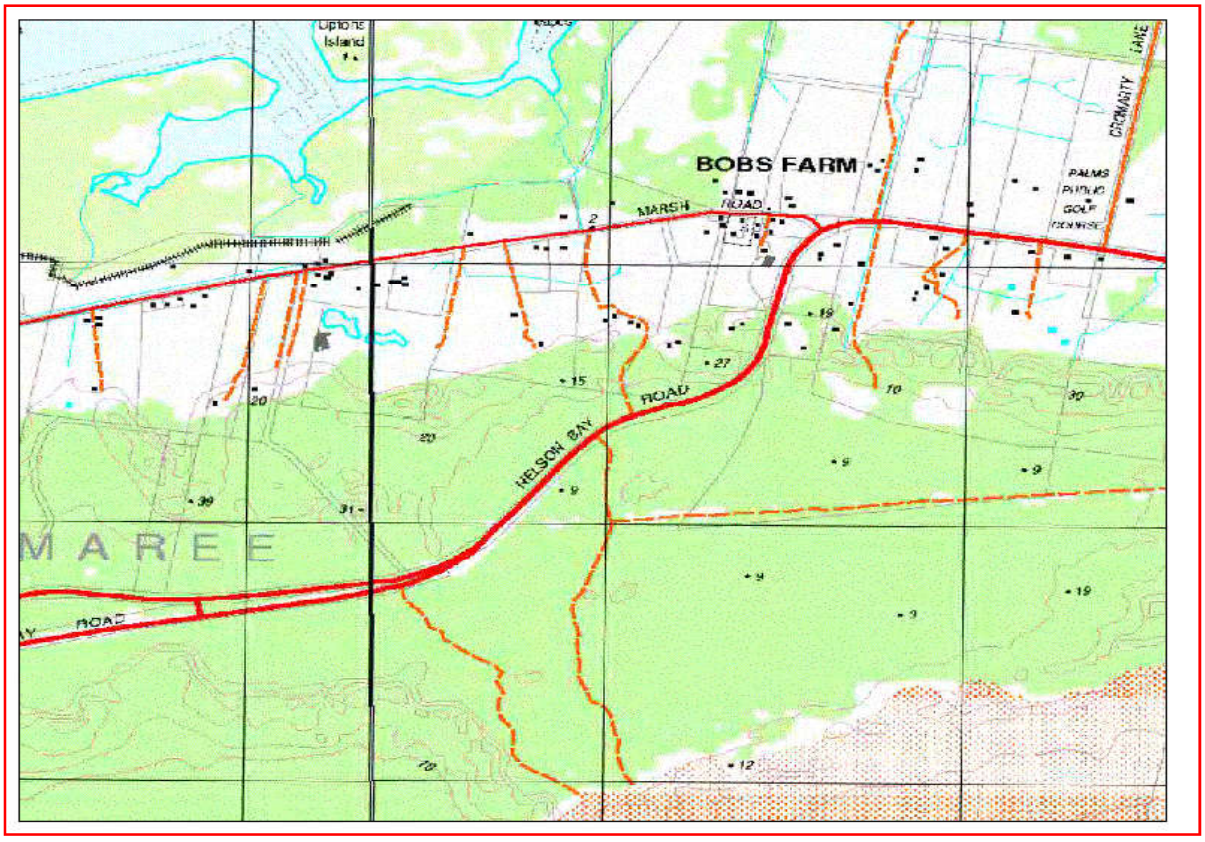
Advitech Pty Limited
PO Box 207
Mayfield New South Wales 2304
Attention: Rod Bennison
Email: rod.bennison@advitech.com.au

Date: 02 September 2019

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -32.7838, 151.99 - Lat, Long To : -32.7629, 152.0231 with a Buffer of 50 meters. Additional Info : To be included in ACHAR and update the previous search as items have been registered since original search from 2014 survey of site, conducted by Rod Bennison on 02 September 2019.

The extent 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:

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

If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date .Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

3 Marist Place, Parramatta NSW 2150
Locked Bag 5020 Parramatta NSW 2220
Tel: (02) 9585 6380 Fax: (02) 9873 8599

ABN 30 841 387 271
Email: ahims@environment.nsw.gov.au
Web: www.environment.nsw.gov.au

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : Bobs Farm SM update

Client Service ID : 446061

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0491	Nelson Bay Road 4;Tomago Sandhills;	AGD	56	405350	6372350	Open site	Valid	Shell : -, Artefact : -	Midden	102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0492	Nelson Bay Road 5;Tomago Sandhills;	AGD	56	405500	6372350	Open site	Valid	Shell : -, Artefact : -	Midden	102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0479	Nelson Bay Road 11;Tomaree Sandhills;	AGD	56	405600	6372450	Open site	Valid	Shell : -, Artefact : -	Midden	4317,102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0480	Nelson Bay Road 10;Tomaree Sandhills;	AGD	56	406100	6372500	Open site	Valid	Shell : -, Artefact : -	Midden	4317
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0481	Nelson Bay Road 9;Tomaree Sandhills;	AGD	56	405750	6372410	Open site	Valid	Shell : -, Artefact : -	Midden	4317,102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0482	Nelson Bay Road 8;Tomaree Sandhills;	AGD	56	405700	6372400	Open site	Valid	Shell : -, Artefact : -	Midden	4317,102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0483	Nelson Bay Road 7;Tomaree Sandhills;	AGD	56	405610	6372410	Open site	Valid	Shell : -, Artefact : -	Midden	4317,102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0484	Nelson Bay Road 6;Sandhills Tomaree Peninsula;	AGD	56	405610	6372400	Open site	Valid	Shell : -, Artefact : -	Midden	4317
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-4-0304	Marsh Rd 1;	AGD	56	406000	6373400	Open site	Valid	Artefact : -, Shell : -	Midden,Open Camp Site	1845,102218
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-4-0305	Marsh Rd 2;	AGD	56	405800	6373300	Open site	Valid	Shell : -, Artefact : -	Midden	1845
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-4-0309	M 1;	AGD	56	406400	6372700	Open site	Valid	Shell : -, Artefact : -	Midden	1845
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-4-0310	M 2;	AGD	56	406200	6372700	Open site	Valid	Shell : -, Artefact : -	Midden	1845,102218
	Contact	**Recorders**	Pam Dean-Jones					**Permits**		
38-5-0217	Tomaree 1	AGD	56	406900	6373550	Open site	Valid	Shell : 1		
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**		
38-5-0218	Tomaree 2	AGD	56	407400	6373750	Open site	Destroyed	Shell : 1		100163,102218
	Contact	**Recorders**	Mrs.Angela Besant					**Permits**	2197,3621	
38-5-0208	Nelson Bay Road PAD1	AGD	56	406598	6372775	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	Contact	**Recorders**	MCH - McCardle Cultural Heritage Pty Ltd					**Permits**	1388	

Report generated by AHIMS Web Service on 02/09/2019 for Rod Bennison for the following area at Lat, Long From : -32.7838, 151.99 - Lat, Long To : -32.7629, 152.0231 with a Buffer of 50 meters. Additional Info : To be included in ACHAR and update the previous search as items have been registered since original search from 2014 survey of site.. Number of Aboriginal sites and Aboriginal objects found is 26

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)

Extensive search - Site list report

Your Ref/PO Number : Bobs Farm SM update

Client Service ID : 446061

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-5-0234	PAD 5: Tomaree to Tomago	AGD	56	407009	6373900	Open site	Valid	Potential Archaeological Deposit (PAD) : 0		98386,98387
	Contact	**Recorders**	MCH - McCardle Cultural Heritage Pty Ltd,ERM - Thornton					**Permits**		
38-5-0257	Tomaree 2a	AGD	56	407400	6373700	Open site	Valid	Shell : -		
	Contact Searle	**Recorders**	Ms.Penny Mccardle					**Permits**		
38-5-0258	Tomaree 2b	AGD	56	407400	6373700	Open site	Valid	Shell : -		
	Contact Searle	**Recorders**	Ms.Penny Mccardle					**Permits**		
38-4-1598	OFOC Area 4	GDA	56	406208	6372753	Open site	Partially Destroyed	Artefact : 1		
	Contact	**Recorders**	Umwelt (Australia) Pty Limited,Mr.Peter Saad,Miss.Nicola Roche					**Permits**	3621,3863	
38-4-1723	Bobs farm2	GDA	56	405548	6372520	Open site	Valid	Shell : -		
	Contact	**Recorders**	Ms.Penny Mccardle					**Permits**	3863	
38-4-1724	Bobs Farm3	GDA	56	405611	6372523	Open site	Valid	Shell : -		
	Contact	**Recorders**	Ms.Penny Mccardle					**Permits**	3863	
38-4-2016	BF-SC1-14	GDA	56	406361	6373319	Open site	Valid	Shell : -		
	Contact	**Recorders**	AECOM Australia Pty Ltd (previously HLA-Envirosciences),Andrew McLaren					**Permits**		
38-5-0350	BF-SC2-14	GDA	56	406491	6373266	Open site	Valid	Shell : -		
	Contact	**Recorders**	AECOM Australia Pty Ltd (previously HLA-Envirosciences),Andrew McLaren					**Permits**		
38-5-0351	BF-SC-3-18	GDA	56	406549	6373306	Open site	Valid	Shell : -		
	Contact	**Recorders**	AECOM Australia Pty Ltd (previously HLA-Envirosciences),Andrew McLaren					**Permits**		
38-5-0352	BF-SC4-14	GDA	56	406592	6373521	Open site	Valid	Shell : -		
	Contact	**Recorders**	AECOM Australia Pty Ltd (previously HLA-Envirosciences),Mr.Andrew McLane					**Permits**		
38-5-0353	BF-SC5-14	GDA	56	406919	6373526	Open site	Valid	Earth Mound : -		
	Contact	**Recorders**	AECOM Australia Pty Ltd (previously HLA-Envirosciences),Mr.Andrew McLane					**Permits**		

Report generated by AHIMS Web Service on 02/09/2019 for Rod Bennison for the following area at Lat, Long From : -32.7838, 151.99 - Lat, Long To : -32.7629, 152.0231 with a Buffer of 50 meters. Additional Info : To be included in ACHAR and update the previous search as items have been registered since original search from 2014 survey of site.. Number of Aboriginal sites and Aboriginal objects found is 26

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Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville NSW 2220

Office of Environment & Heritage

Office Use Only

Site Number 38-4-2016

Date received / / Date entered into system / / Date catalogued / /

Entered by (I.D.)

Information Access

☐ Gender/male ☐ Gender/female ☐ Location restriction ☐ General restriction ☐ No access

Office Use Only

For Further Information Contact:

☐ **Nominated Trustee**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

☐ **Knowledge Holder**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

Aboriginal Heritage Unit or Cultural Heritage Division Contacts

Geographic Location

Site Name BF-SC1-14

Easting 406361 Northing 6373319 AGD/GDA GDA

Mapsheet

Zone 56 Location Method Differential GPS

Other Registration

Primary Recorder

Title | Surname | First Name | Initials

Dr | McLaren | Andrew

Organisation AECOM Australia Pty Ltd

Address 420 George Street Sydney NSW

Phone number 89340000 Fax 893400001

Date recorded 01/10/2014

Client on system ☐

NPWS Aboriginal Site Recording Form - Site Information

OPEN/CLOSE SITE: Open Site

Site Context

Landform

- [ ] Mountainous
- [ ] Plain
- [ ] Rolling hills
- [x] Steep hills
- [ ] Undulating plain

Landform Unit

- [ ] Beach
- [ ] Coastal rock platform
- [x] Dune
- [ ] Intertidal flat
- [ ] Lagoon
- [ ] Tidal Creek
- [ ] Tidal Flat
- [ ] Cliff
- [ ] Crest
- [ ] Flat
- [ ] Lower slope
- [ ] Mid slope
- [ ] Upper slope
- [ ] Plain
- [ ] Ridge
- [ ] Tor
- [ ] Valley flat
- [ ] Levy
- [ ] Stream bank
- [ ] Stream channel
- [ ] Swamp
- [ ] Terrace
- [ ] Terrace flat

Slope

[ ] degrees

Vegetation

- [ ] Closed forest
- [ ] Grasslands
- [ ] Isolated clumps of trees
- [ ] Open forest
- [ ] Open woodland
- [ ] Scrub
- [ ] Woodland
- [x] Cleared
- [ ] Revegetated
- [ ] N/A

Land use

- [ ] Conservation
- [ ] Established urban
- [ ] Farming-intensive
- [ ] Farming-low intensity
- [ ] Forestry
- [ ] Industrial
- [ ] Mining
- [ ] Pastoral/grazing
- [ ] Recreation
- [ ] Semi-rural
- [ ] Service corridor
- [x] Transport corridor
- [ ] Urban expansion
- [ ] N/A

Water

Distance to permanent water source [ ] metres

Distance to temporary water source [ ] metres

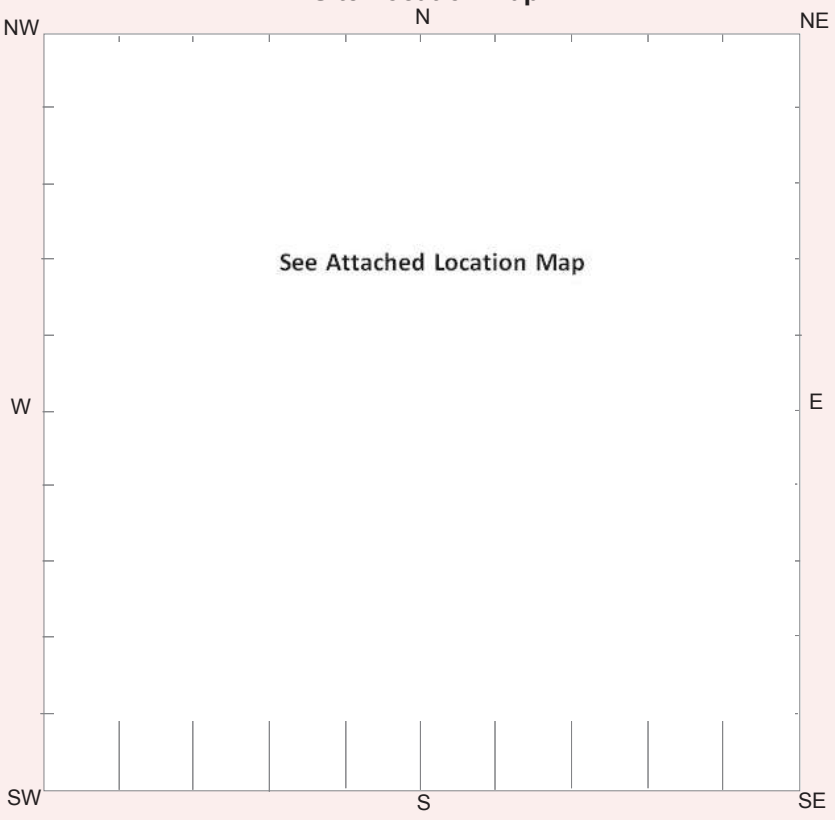
Name of nearest permanent water source

Name of nearest temporary water

Directions for Relocation

From southern intersection of Marsh Rd and Nelson Bay Rd travel north on Nelson Bay Rd for c.7km. Turn left off Nelson Bay Rd onto cleared electricity easement immediately prior to orchard. Proceed west along easement for c.175 m. Follow track bordering orchard north for c.300 m. Proceed west along track (on left) for c.220 m. Site at track intersection.

Site Location Map



Current Land Tenure

- [ ] Public
- [x] Private

National Park / other Government Dept.

Primary report **I.D.** [ ] (I.D. Office Use only)

Bobs Farm Sand Project - Aboriginal Cultural Heritage Assessment (AECOM Australia Pty Ltd 2014).

NPWS Aboriginal Site Recording Form - Site Information

General Site Information

Closed Site

Shelter/Cave Formation

- ☐ Boulder
- ☐ Wind erosion
- ☐ Water erosion
- ☐ Rock collapse

Rock Surface Condition

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Condition of Ceiling

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Shelter Aspect

- ☐ North
- ☐ North East
- ☐ East
- ☐ South East
- ☐ South
- ☐ South West
- ☐ West
- ☐ North West

Open Site

Site Orientation

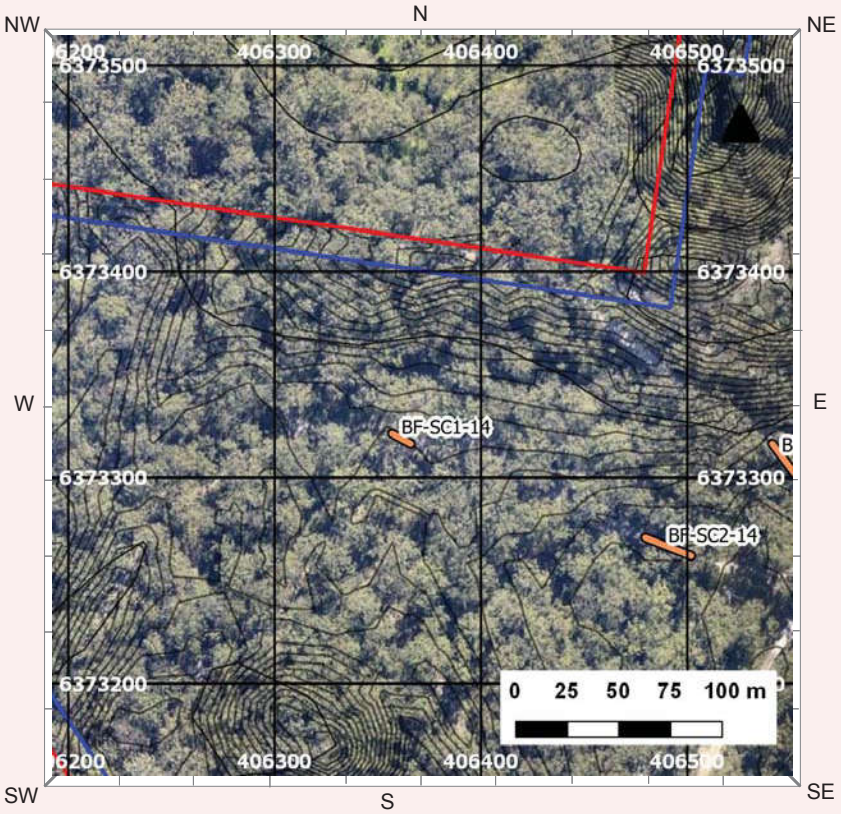
- ☐ N-S
- ☐ NE-SW
- ☐ E-W
- ☐ SE-NW
- ☐ N/A

Features

- ☐ 1. Aboriginal Ceremony & Dreaming
- ☐ 2. Aboriginal Resource & Gathering
- ☐ 3. Art
- ☐ 4. Artefact
- ☐ 5. Burial
- ☐ 6. Ceremonial Ring
- ☐ 7. Conflict
- ☐ 8. Earth Mound
- ☐ 9. Fish Trap
- ☐ 10. Grinding Groove
- ☐ 11. Habitation Structure
- ☐ 12. Hearth
- ☐ 13. Non Human Bone & Organic Material
- ☐ 14. Ochre quarry
- ☐ 15. Potential Archaeological Deposit
- ☐ 16. Stone Quarry
- ☑ 17. Shell
- ☐ 18. Stone Arrangement
- ☐ 19. Modified Tree
- ☐ 20. Water Hole

Site Plan

Indicate scale, boundaries of site, features



Site Dimensions

Closed Site Dimensions (m)

- ☐ Internal length
- ☐ Internal width
- ☐ Shelter height
- ☐ Shelter floor area

Open Site Dimensions (m)

- 8 Total length of visible site
- 4 Average width of visible site
- 32 m2 Estimated area of visible site
- ☐ Length of assessed site area

Aboriginal Community Interpretation and Management Recommendations

Preliminary Site Assessment

Site Cultural & Scientific Analysis and Preliminary Management Recommendations

BF-SC1-14 consists of a low density scatter of pipi (Plebidonax deltoides) shell on a unsealed light vehicle track on Lot 254 of DP753204. The site is located at the intersection of two tracks on a gently-inclined lower dune slope within the elevated Ridge I dune field. A total of nine fragments of pipi shell were observed across a 8 x 4 m area, with a maximum density of three shell fragments per m2. Overall site condition is poor. Relevant disturbance factors include native vegetation clearance and vehicle track construction and use. Surrounding native vegetation consists of uncleared Coastal Sand Blackbutt Open Forest.

This section should only be filled in by the Endorsees

Endorsed by: ☐ Knowledge Holder ☐ Nominated Trustee ☐ Native Title Holder ☐ Community Consensus

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Attachments (No.)

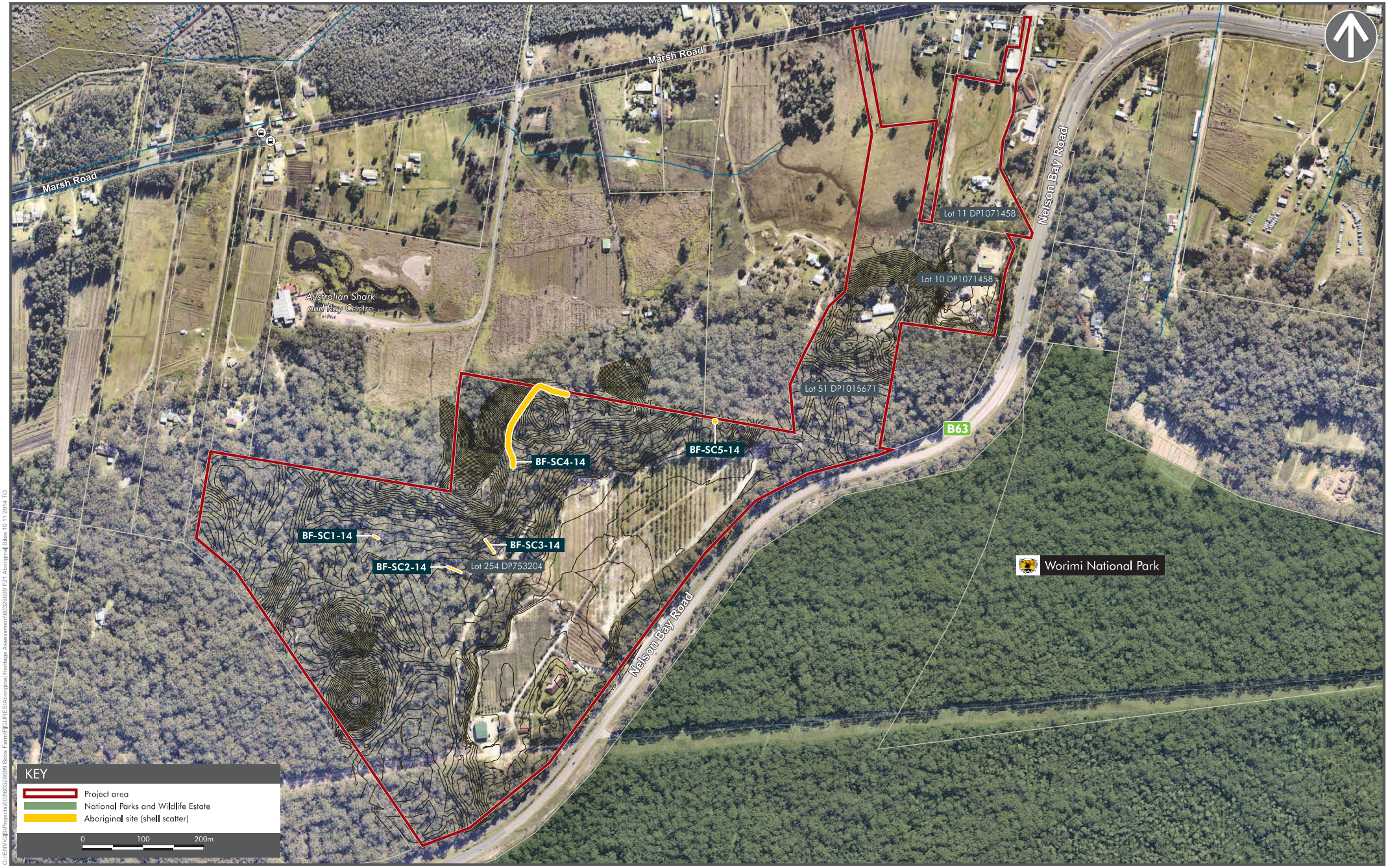
- ☑ A4 location map
- ☐ B/W photographs
- ☑ Colour photographs
- ☐ Slides
- ☐ Aerial photographs
- ☐ Site plans, drawings
- ☐ Recording tables
- ☐ Other
- ☐ Feature inserts-No. ☐

Comments

BF-SC1-14



Plate 1 View across BF-SC1-14, looking west



G:\ENV\GIS\Projects\60360328699 Bobs Farm\FIGURES\Aboriginal Heritage Assessment\60328699 F21 Aboriginal Sites 10 11 2014 TO

AECOM

ABORIGINAL SITES

Aboroginal Heritage Assessment
Bobs Farm Sand Project
Bobs Farm, New South Wales

FIGURE 21

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville NSW 2220

Office Use Only

Site Number 38-5-0350

Date received / / Date entered into system / / Date catalogued / /

Entered by (I.D.)

Information Access

☐ Gender/male ☐ Gender/female ☐ Location restriction ☐ General restriction ☐ No access

Office Use Only

For Further Information Contact:

☐ **Nominated Trustee**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

☐ **Knowledge Holder**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

Aboriginal Heritage Unit or Cultural Heritage Division Contacts

Geographic Location

Site Name BF-SC2-14

Easting 406491 Northing 6373266 AGD/GDA GDA

Mapsheet

Zone 56 Location Method Differential GPS

Other Registration

Primary Recorder

Title | Surname | First Name | Initials

Dr | McLaren | Andrew

Organisation AECOM Australia Pty Ltd

Address 420 George Street Sydney NSW

Phone number 89340000 Fax 893400001

Date recorded 01/10/2014

Client on system ☐

NPWS Aboriginal Site Recording Form - Site Information

OPEN/CLOSE SITE: Open Site

Site Context

Landform

- [ ] Mountainous
- [ ] Plain
- [ ] Rolling hills
- [x] Steep hills
- [ ] Undulating plain

Landform Unit

- [ ] Beach
- [ ] Coastal rock platform
- [x] Dune
- [ ] Intertidal flat
- [ ] Lagoon
- [ ] Tidal Creek
- [ ] Tidal Flat
- [ ] Cliff
- [ ] Crest
- [ ] Flat
- [ ] Lower slope
- [ ] Mid slope
- [ ] Upper slope
- [ ] Plain
- [ ] Ridge
- [ ] Tor
- [ ] Valley flat
- [ ] Levy
- [ ] Stream bank
- [ ] Stream channel
- [ ] Swamp
- [ ] Terrace
- [ ] Terrace flat

Slope

[ ] degrees

Vegetation

- [ ] Closed forest
- [ ] Grasslands
- [ ] Isolated clumps of trees
- [ ] Open forest
- [ ] Open woodland
- [ ] Scrub
- [ ] Woodland
- [x] Cleared
- [ ] Revegetated
- [ ] N/A

Land use

- [ ] Conservation
- [ ] Established urban
- [ ] Farming-intensive
- [ ] Farming-low intensity
- [ ] Forestry
- [ ] Industrial
- [ ] Mining
- [ ] Pastoral/grazing
- [ ] Recreation
- [ ] Semi-rural
- [ ] Service corridor
- [x] Transport corridor
- [ ] Urban expansion
- [ ] N/A

Water

Distance to permanent water source [ ] metres

Distance to temporary water source [ ] metres

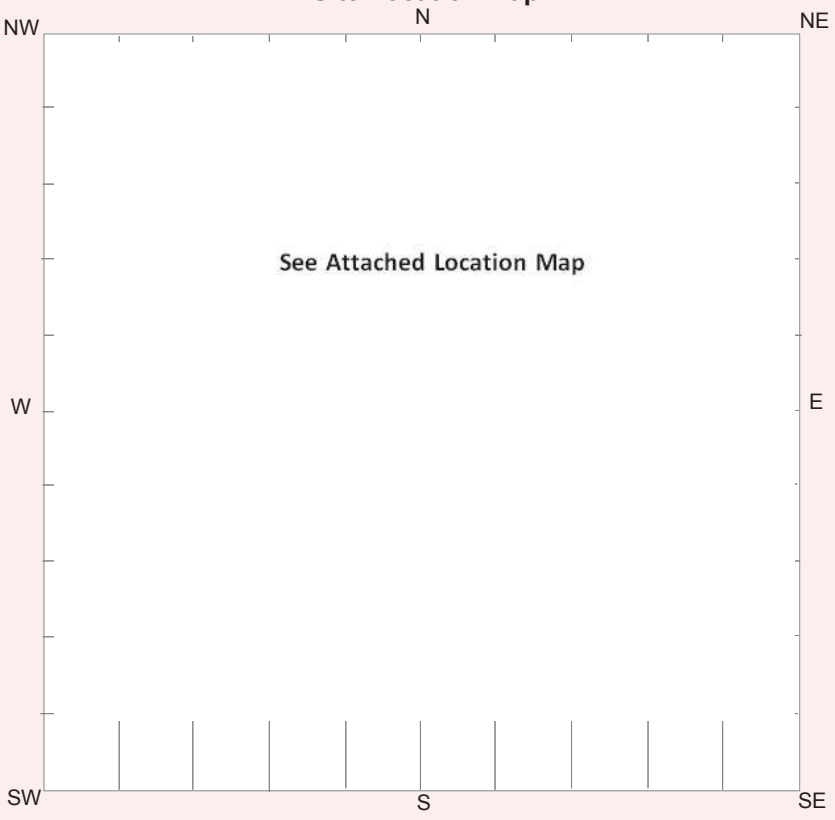
Name of nearest permanent water source

Name of nearest temporary water

Directions for Relocation

From southern intersection of Marsh Rd and Nelson Bay Rd travel north on Nelson Bay Rd for c.7km. Turn left off Nelson Bay Rd onto cleared electricity easement immediately prior to commercial orchard. Proceed west along easement for c.180 m. Follow track bordering orchard north for c.300 m. Proceed west along track (on left) for c.60 m to eastern end of site.

Site Location Map



Current Land Tenure

- [ ] Public
- [x] Private

National Park / other Government Dept.

Primary report

I.D. [ ] (I.D. Office Use only)

Bobs Farm Sand Project - Aboriginal Cultural Heritage Assessment (AECOM Australia Pty Ltd 2014).

NPWS Aboriginal Site Recording Form - Site Information

General Site Information

Closed Site

Shelter/Cave Formation

- ☐ Boulder
- ☐ Wind erosion
- ☐ Water erosion
- ☐ Rock collapse

Rock Surface Condition

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Condition of Ceiling

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Shelter Aspect

- ☐ North
- ☐ North East
- ☐ East
- ☐ South East
- ☐ South
- ☐ South West
- ☐ West
- ☐ North West

Open Site

Site Orientation

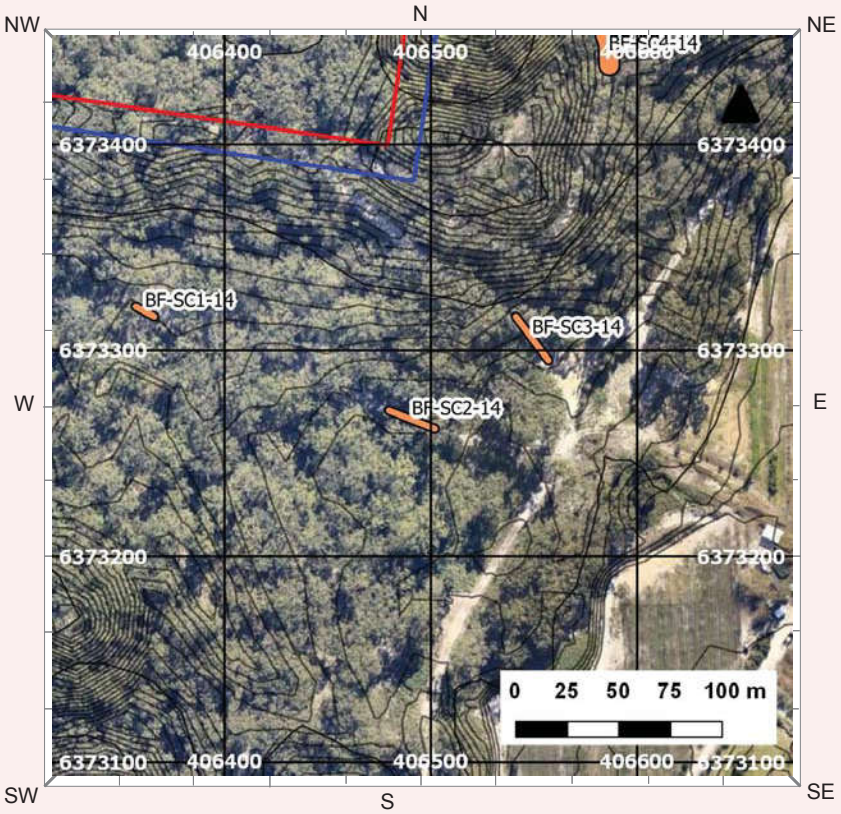
- ☐ N-S
- ☐ NE-SW
- ☐ E-W
- ☐ SE-NW
- ☐ N/A

Features

- ☐ 1. Aboriginal Ceremony & Dreaming
- ☐ 2. Aboriginal Resource & Gathering
- ☐ 3. Art
- ☐ 4. Artefact
- ☐ 5. Burial
- ☐ 6. Ceremonial Ring
- ☐ 7. Conflict
- ☐ 8. Earth Mound
- ☐ 9. Fish Trap
- ☐ 10. Grinding Groove
- ☐ 11. Habitation Structure
- ☐ 12. Hearth
- ☐ 13. Non Human Bone & Organic Material
- ☐ 14. Ochre quarry
- ☐ 15. Potential Archaeological Deposit
- ☐ 16. Stone Quarry
- ☑ 17. Shell
- ☐ 18. Stone Arrangement
- ☐ 19. Modified Tree
- ☐ 20. Water Hole

Site Plan

Indicate scale, boundaries of site, features



Site Dimensions

Closed Site Dimensions (m)

- ☐ Internal length
- ☐ Internal width
- ☐ Shelter height
- ☐ Shelter floor area

Open Site Dimensions (m)

- 25 Total length of visible site
- 3 Average width of visible site
- 75m2 Estimated area of visible site
- ☐ Length of assessed site area

Aboriginal Community Interpretation and Management Recommendations

Preliminary Site Assessment

Site Cultural & Scientific Analysis and Preliminary Management Recommendations

BF-SC2-14 consists of a low density shell scatter on a unsealed, E-W trending light vehicle track on Lot 254 of DP753204. A total of seventeen fragments of shell were recorded along a 25m long stretch of track (c. 3m wide), with the majority of fragments clustered in a c. 3 x 2 m area on the crest of a low but perceptible dune at the eastern end of the site. Pipi (Plebidonax deltoides) accounted for all but one of the fragments recorded during survey, with an isolated fragment of osyter shell (Saccostrea glomerata or Ostrea angasi) also observed. Overall site condition is poor. Relevant disturbance factors include native vegetation clearance and vehicle track construction and use. Surrounding native vegetation consists of remnant Coastal Sand Blackbutt Open Forest.

This section should only be filled in by the Endorsees

Endorsed by: ☐ Knowledge Holder ☐ Nominated Trustee ☐ Native Title Holder ☐ Community Consensus

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Attachments (No.)

- ☑ A4 location map
- ☐ B/W photographs
- ☑ Colour photographs
- ☐ Slides
- ☐ Aerial photographs
- ☐ Site plans, drawings
- ☐ Recording tables
- ☐ Other
- ☐ Feature inserts-No. ☐

Comments

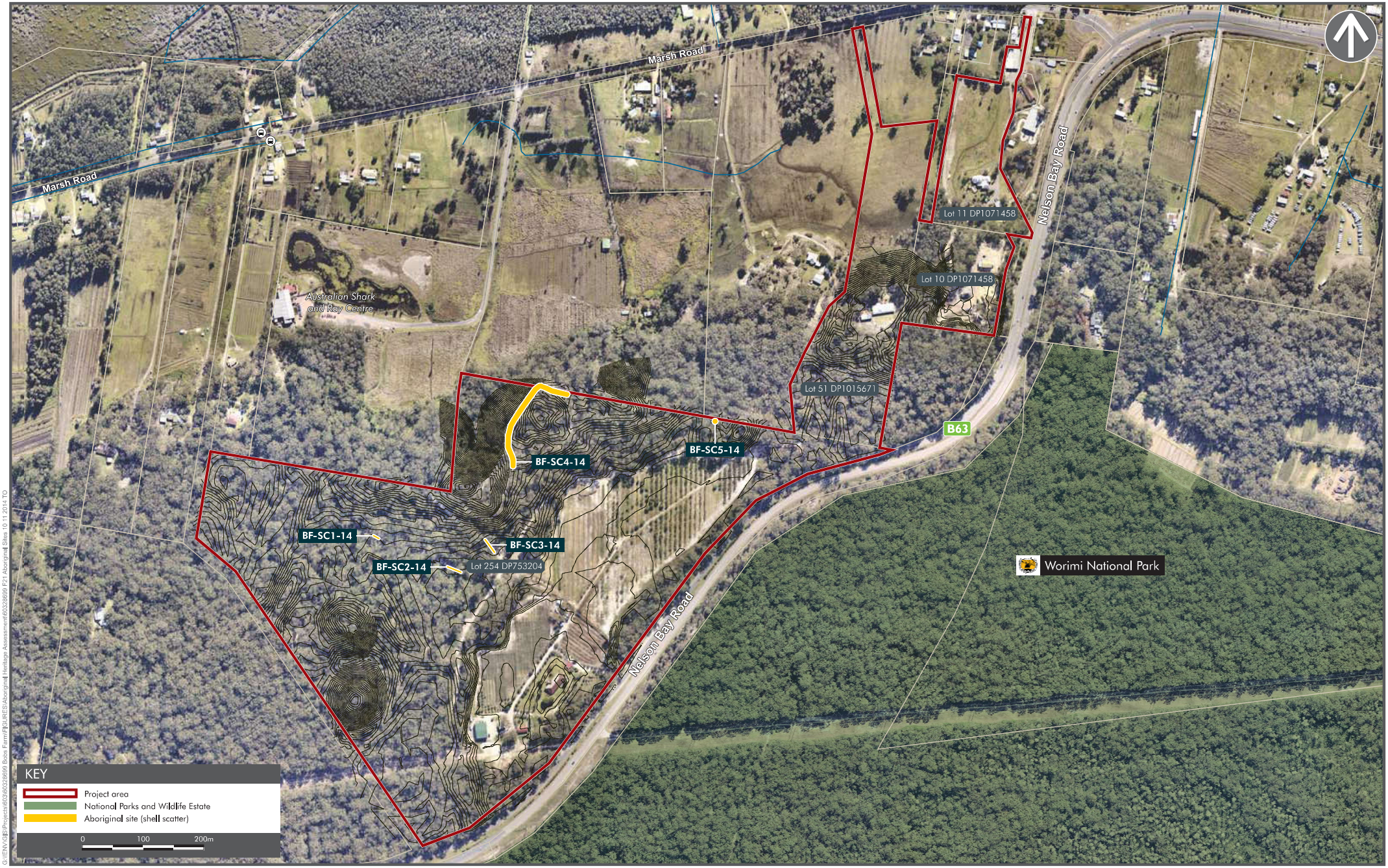
BF-SC2-14



Plate 1 View across BF-SC2-14, looking west



Plate 2 Close-up of main shell cluster within BF-SC2-14



G:\ENV\GIS\Projects\60360328699 Bobs Farm\FIGURES\Aboriginal Heritage Assessment\60328699 F21 Aboriginal Sites 10 11 2014 TO

AECOM

ABORIGINAL SITES

Aboroginal Heritage Assessment
Bobs Farm Sand Project
Bobs Farm, New South Wales

FIGURE 21

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville NSW 2220

Office of Environment & Heritage

Office Use Only

Site Number 38-5-0350

Date received / / Date entered into system / / Date catalogued / /

Entered by (I.D.)

Information Access

☐ Gender/male ☐ Gender/female ☐ Location restriction ☐ General restriction ☐ No access

Office Use Only

For Further Information Contact:

☐ **Nominated Trustee**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

☐ **Knowledge Holder**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

Aboriginal Heritage Unit or Cultural Heritage Division Contacts

Geographic Location

Site Name BF-SC3-14

Easting 406549 Northing 6373306 AGD/GDA GDA

Mapsheet

Zone 56 Location Method Differential GPS

Other Registration

Primary Recorder

Title | Surname | First Name | Initials

Dr | McLaren | Andrew

Organisation AECOM Australia Pty Ltd

Address 420 George Street Sydney NSW

Phone number 89340000 Fax 893400001

Date recorded 01/10/2014

Client on system ☐

NPWS Aboriginal Site Recording Form - Site Information

OPEN/CLOSE SITE: Open Site

Site Context

Landform

- [ ] Mountainous
- [ ] Plain
- [ ] Rolling hills
- [x] Steep hills
- [ ] Undulating plain

Landform Unit

- [ ] Beach
- [ ] Coastal rock platform
- [x] Dune
- [ ] Intertidal flat
- [ ] Lagoon
- [ ] Tidal Creek
- [ ] Tidal Flat
- [ ] Cliff
- [ ] Crest
- [ ] Flat
- [ ] Lower slope
- [ ] Mid slope
- [ ] Upper slope
- [ ] Plain
- [ ] Ridge
- [ ] Tor
- [ ] Valley flat
- [ ] Levy
- [ ] Stream bank
- [ ] Stream channel
- [ ] Swamp
- [ ] Terrace
- [ ] Terrace flat

Slope

[ ] degrees

Vegetation

- [ ] Closed forest
- [ ] Grasslands
- [ ] Isolated clumps of trees
- [ ] Open forest
- [ ] Open woodland
- [ ] Scrub
- [ ] Woodland
- [x] Cleared
- [ ] Revegetated
- [ ] N/A

Land use

- [ ] Conservation
- [ ] Established urban
- [ ] Farming-intensive
- [ ] Farming-low intensity
- [ ] Forestry
- [ ] Industrial
- [ ] Mining
- [ ] Pastoral/grazing
- [ ] Recreation
- [ ] Semi-rural
- [ ] Service corridor
- [x] Transport corridor
- [ ] Urban expansion
- [ ] N/A

Water

Distance to permanent water source [ ] metres

Distance to temporary water source [ ] metres

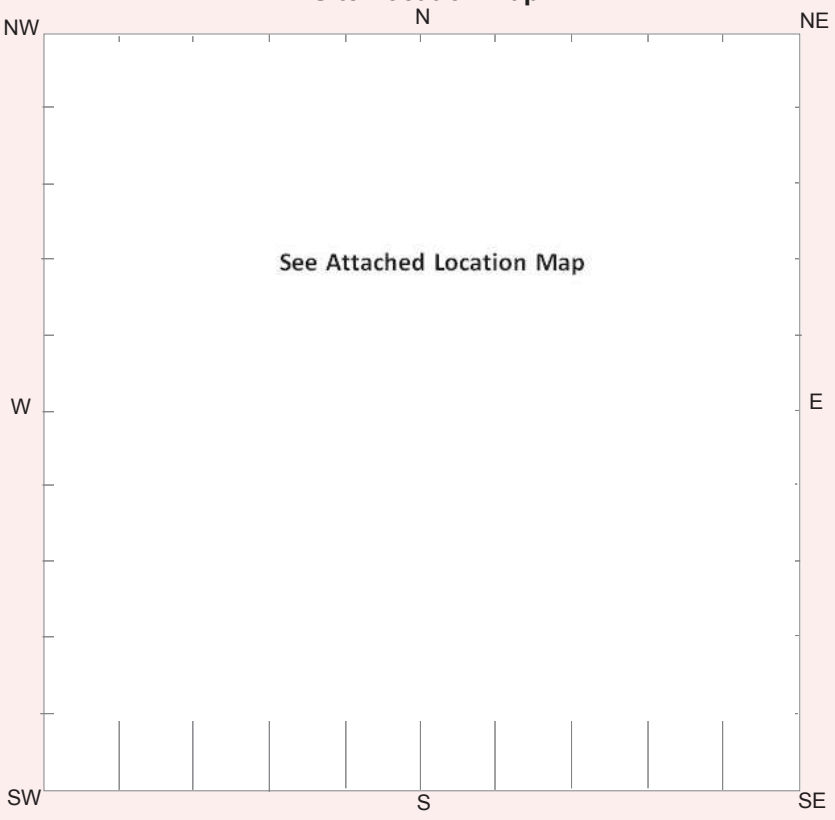
Name of nearest permanent water source

Name of nearest temporary water

Directions for Relocation

From southern intersection of Marsh Rd and Nelson Bay Rd travel north on Nelson Bay Rd for c.7km. Turn left off Nelson Bay Rd onto cleared electricity easement immediately prior to commercial orchard. Proceed west along easement for c.175 m. Follow track bordering orchard complex north for c.340 m. Site on left on track heading west up dune slope.

Site Location Map



Current Land Tenure

- [ ] Public
- [x] Private

National Park / other Government Dept.

Primary report

I.D. [ ] (I.D. Office Use only)

Bobs Farm Sand Project - Aboriginal Cultural Heritage Assessment (AECOM Australia Pty Ltd 2014).

NPWS Aboriginal Site Recording Form - Site Information

General Site Information

Closed Site

Shelter/Cave Formation

- ☐ Boulder
- ☐ Wind erosion
- ☐ Water erosion
- ☐ Rock collapse

Rock Surface Condition

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Condition of Ceiling

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Shelter Aspect

- ☐ North
- ☐ North East
- ☐ East
- ☐ South East
- ☐ South
- ☐ South West
- ☐ West
- ☐ North West

Open Site

Site Orientation

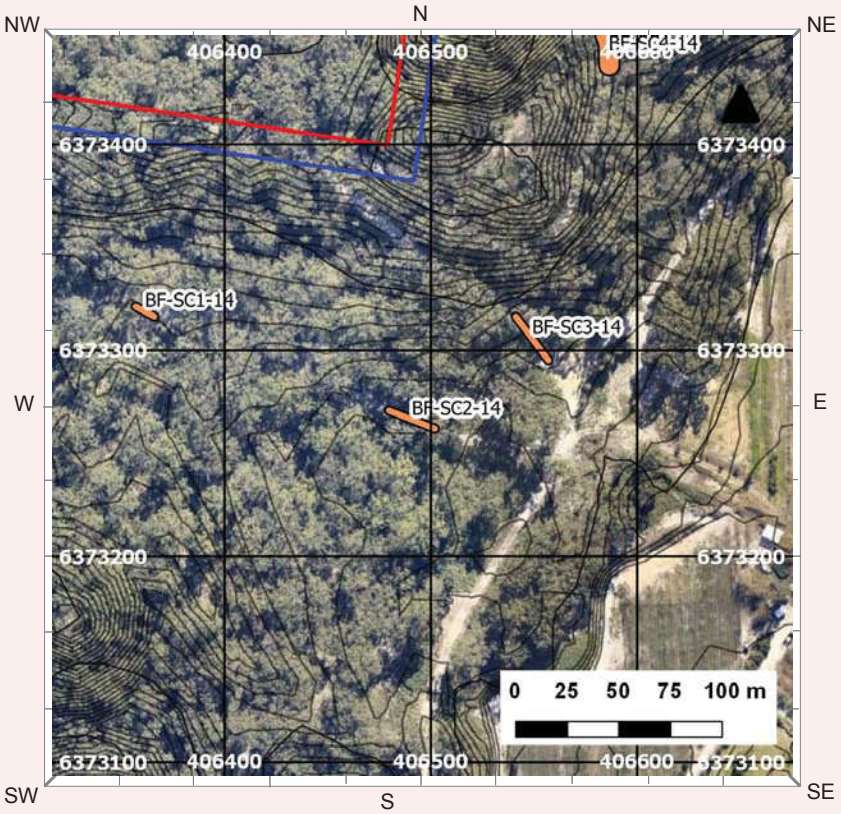
- ☐ N-S
- ☐ NE-SW
- ☐ E-W
- ☐ SE-NW
- ☐ N/A

Features

- ☐ 1. Aboriginal Ceremony & Dreaming
- ☐ 2. Aboriginal Resource & Gathering
- ☐ 3. Art
- ☐ 4. Artefact
- ☐ 5. Burial
- ☐ 6. Ceremonial Ring
- ☐ 7. Conflict
- ☐ 8. Earth Mound
- ☐ 9. Fish Trap
- ☐ 10. Grinding Groove
- ☐ 11. Habitation Structure
- ☐ 12. Hearth
- ☐ 13. Non Human Bone & Organic Material
- ☐ 14. Ochre quarry
- ☐ 15. Potential Archaeological Deposit
- ☐ 16. Stone Quarry
- ☑ 17. Shell
- ☐ 18. Stone Arrangement
- ☐ 19. Modified Tree
- ☐ 20. Water Hole

Site Plan

Indicate scale, boundaries of site, features



Site Dimensions

Closed Site Dimensions (m)

- ☐ Internal length
- ☐ Internal width
- ☐ Shelter height
- ☐ Shelter floor area

Open Site Dimensions (m)

- 25 Total length of visible site
- 4 Average width of visible site
- 100m2 Estimated area of visible site
- ☐ Length of assessed site area

Aboriginal Community Interpretation and Management Recommendations

Preliminary Site Assessment

Site Cultural & Scientific Analysis and Preliminary Management Recommendations

BF-SC3-14 consists of a low density scatter of pipi shell (Plebidonax deltoides) on a unsealed light vehicle track on Lot 254 of DP753204. A total of fourteen fragments of shell were recorded along a c.25m long stretch of track, which is approximately 4m wide at this point. The maximum observed density was 3 shell fragments per m2. The landform context of the site is that of a gently inclined lower dune slope within the elevated Ridge I dune field. Overall site condition is poor. Relevant disturbance factors include native vegetation clearance and vehicle track construction and use. Surrounding native vegetation consists of remnant Coastal Sand Blackbutt Open Forest.

This section should only be filled in by the Endorsees

Endorsed by: ☐ Knowledge Holder ☐ Nominated Trustee ☐ Native Title Holder ☐ Community Consensus

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Attachments (No.)

- ☑ A4 location map
- ☐ B/W photographs
- ☑ Colour photographs
- ☐ Slides
- ☐ Aerial photographs
- ☐ Site plans, drawings
- ☐ Recording tables
- ☐ Other
- ☐ Feature inserts-No. ☐

Comments

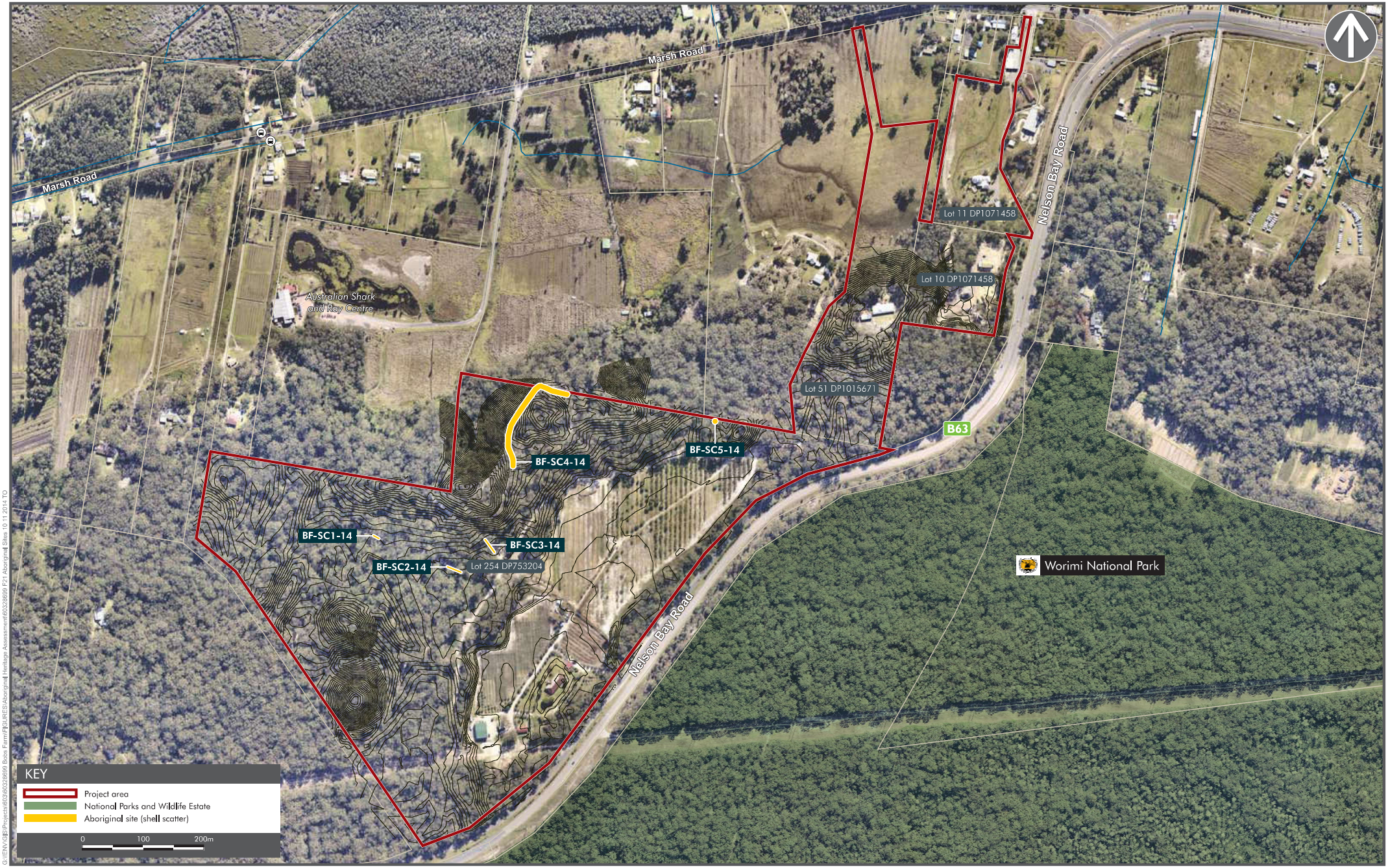
BF-SC3-14



Plate 1 View across BF-SC3-14 (flags removed)



Plate 2 Close-up of incomplete pipi (Plebidonax deltoides) shells within BF-SC3-14



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AECOM

ABORIGINAL SITES

Aboroginal Heritage Assessment
Bobs Farm Sand Project
Bobs Farm, New South Wales

FIGURE 21

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville NSW 2220

Office of Environment & Heritage

Office Use Only

Site Number 38-5-0352

Date received / / Date entered into system / / Date catalogued / /

Entered by (I.D.)

Information Access

☐ Gender/male ☐ Gender/female ☐ Location restriction ☐ General restriction ☐ No access

Office Use Only

For Further Information Contact:

☐ **Nominated Trustee**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

☐ **Knowledge Holder**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

Aboriginal Heritage Unit or Cultural Heritage Division Contacts

Geographic Location

Site Name BF-SC4-14

Easting 406592 Northing 6373521 AGD/GDA GDA

Mapsheet

Zone 56 Location Method Differential GPS

Other Registration

Primary Recorder

Title | Surname | First Name | Initials

Dr | McLaren | Andrew

Organisation AECOM Australia Pty Ltd

Address 420 George Street Sydney NSW

Phone number 89340000 Fax 893400001

Date recorded 01/10/2014

Client on system ☐

NPWS Aboriginal Site Recording Form - Site Information

OPEN/CLOSE SITE: Open Site

Site Context

Landform

- [ ] Mountainous
- [ ] Plain
- [ ] Rolling hills
- [x] Steep hills
- [ ] Undulating plain

Landform Unit

- [ ] Beach
- [ ] Coastal rock platform
- [x] Dune
- [ ] Intertidal flat
- [ ] Lagoon
- [ ] Tidal Creek
- [ ] Tidal Flat
- [ ] Cliff
- [ ] Crest
- [ ] Flat
- [ ] Lower slope
- [ ] Mid slope
- [ ] Upper slope
- [ ] Plain
- [ ] Ridge
- [ ] Tor
- [ ] Valley flat
- [ ] Levy
- [ ] Stream bank
- [ ] Stream channel
- [ ] Swamp
- [ ] Terrace
- [ ] Terrace flat

Slope

[ ] degrees

Vegetation

- [ ] Closed forest
- [ ] Grasslands
- [ ] Isolated clumps of trees
- [ ] Open forest
- [ ] Open woodland
- [ ] Scrub
- [ ] Woodland
- [x] Cleared
- [ ] Revegetated
- [ ] N/A

Land use

- [ ] Conservation
- [ ] Established urban
- [ ] Farming-intensive
- [ ] Farming-low intensity
- [ ] Forestry
- [ ] Industrial
- [ ] Mining
- [ ] Pastoral/grazing
- [ ] Recreation
- [ ] Semi-rural
- [ ] Service corridor
- [x] Transport corridor
- [ ] Urban expansion
- [ ] N/A

Water

Distance to permanent water source [ ] metres

Distance to temporary water source [ ] metres

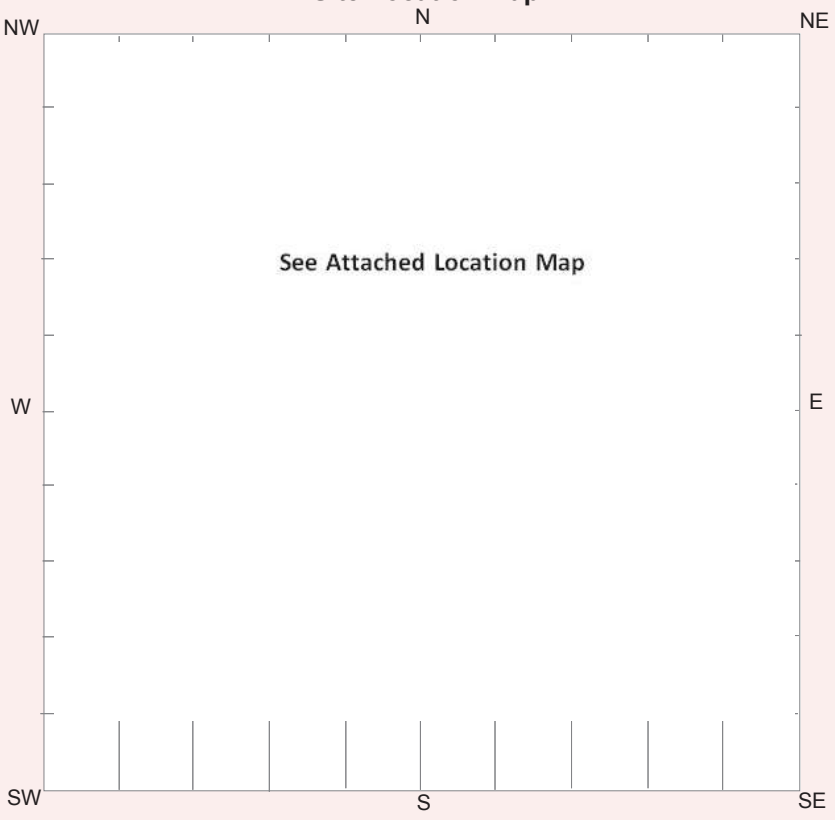
Name of nearest permanent water source

Name of nearest temporary water

Directions for Relocation

From southern intersection of Marsh Rd and Nelson Bay Rd travel north on Nelson Bay Rd for c.7km. Turn left off Nelson Bay Rd onto electricity easement immediately prior to orchard. Proceed west along easement for c.175 m. Follow track bordering orchard north for c.520 m. Proceed west on track up dune for c.120m to track intersection/south site start.

Site Location Map



Current Land Tenure

- [ ] Public
- [x] Private

National Park / other Government Dept.

Primary report

I.D. [ ] (I.D. Office Use only)

Bobs Farm Sand Project - Aboriginal Cultural Heritage Assessment (AECOM Australia Pty Ltd 2014).

NPWS Aboriginal Site Recording Form - Site Information

General Site Information

Closed Site

Shelter/Cave Formation

- ☐ Boulder
- ☐ Wind erosion
- ☐ Water erosion
- ☐ Rock collapse

Rock Surface Condition

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Condition of Ceiling

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Shelter Aspect

- ☐ North
- ☐ North East
- ☐ East
- ☐ South East
- ☐ South
- ☐ South West
- ☐ West
- ☐ North West

Open Site

Site Orientation

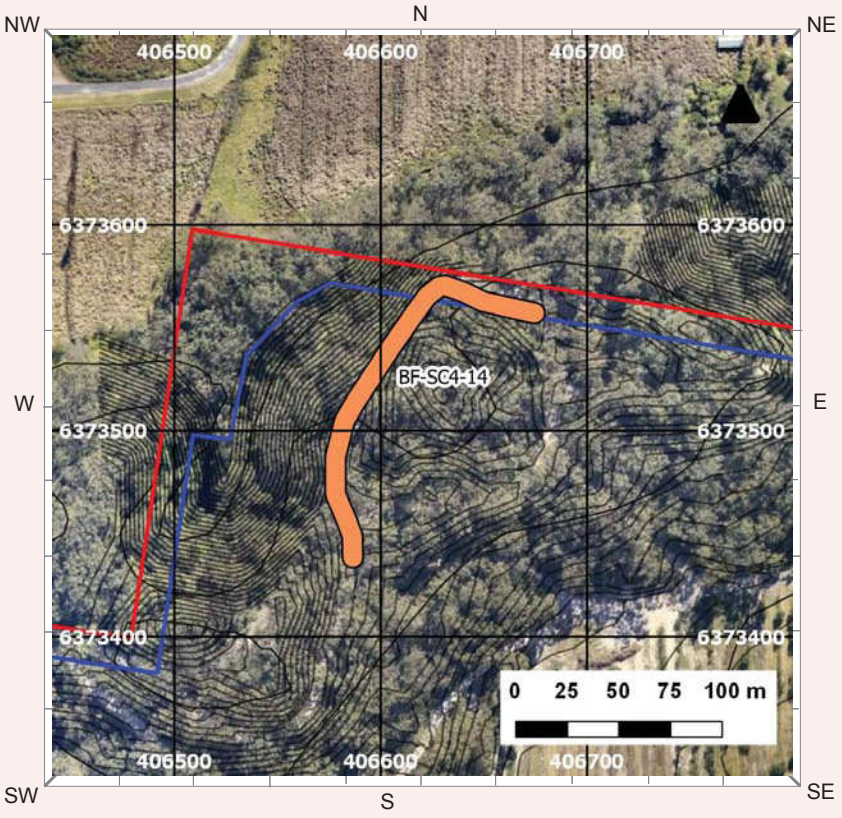
- ☐ N-S
- ☐ NE-SW
- ☐ E-W
- ☐ SE-NW
- ☐ N/A

Features

- ☐ 1. Aboriginal Ceremony & Dreaming
- ☐ 2. Aboriginal Resource & Gathering
- ☐ 3. Art
- ☐ 4. Artefact
- ☐ 5. Burial
- ☐ 6. Ceremonial Ring
- ☐ 7. Conflict
- ☐ 8. Earth Mound
- ☐ 9. Fish Trap
- ☐ 10. Grinding Groove
- ☐ 11. Habitation Structure
- ☐ 12. Hearth
- ☐ 13. Non Human Bone & Organic Material
- ☐ 14. Ochre quarry
- ☐ 15. Potential Archaeological Deposit
- ☐ 16. Stone Quarry
- ☑ 17. Shell
- ☐ 18. Stone Arrangement
- ☐ 19. Modified Tree
- ☐ 20. Water Hole

Site Plan

Indicate scale, boundaries of site, features



Site Dimensions

Closed Site Dimensions (m)

- ☐ Internal length
- ☐ Internal width
- ☐ Shelter height
- ☐ Shelter floor area

Open Site Dimensions (m)

- 190m Total length of visible site
- ☐ Average width of visible site
- 2050m2 Estimated area of visible site
- ☐ Length of assessed site area

Aboriginal Community Interpretation and Management Recommendations

Preliminary Site Assessment

Site Cultural & Scientific Analysis and Preliminary Management Recommendations

BF-SC4-14 consists of a extensive, low density scatter of marine and estuarine midden shell on a graded light vehicle track on Lot 254 of DP753204. Topographically, the site encompasses two dune crests and an intervening saddle within the elevated Ridge I dune field, all of which overlook the Interbarrier Depression. Both dune crests have been cut through by the vehicle track, with grading earthworks at the northern end of the site removing a significant component of the former dune crest. In addition to occurring on the track itself, shell is present on remnant, actively-eroding dune crest surfaces adjacent to the track. Soils associated with these remnant surfaces are quite dark and organic-rich and are consistent with A1 horizon soils. Shell species observed during survey included pipi (n = 60, all fragments), cockle (n = 345 inc. 45 complete shells), oyster (n = 25, all fragments) and whelk (n = 61 inc. 3 complete shells), with cockle overwhelmingly dominant. Relevant disturbance factors include native vegetation clearance and vehicle track construction and use. Surrounding native vegetation consists of remnant Coastal Sand Blackbutt Open Forest.

This section should only be filled in by the Endorsees

Endorsed by: ☐ Knowledge Holder ☐ Nominated Trustee ☐ Native Title Holder ☐ Community Consensus

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Attachments (No.)

- ☑ A4 location map
- ☐ B/W photographs
- ☑ Colour photographs
- ☐ Slides
- ☐ Aerial photographs
- ☐ Site plans, drawings
- ☐ Recording tables
- ☐ Other
- ☐ Feature inserts-No. ☐

Comments



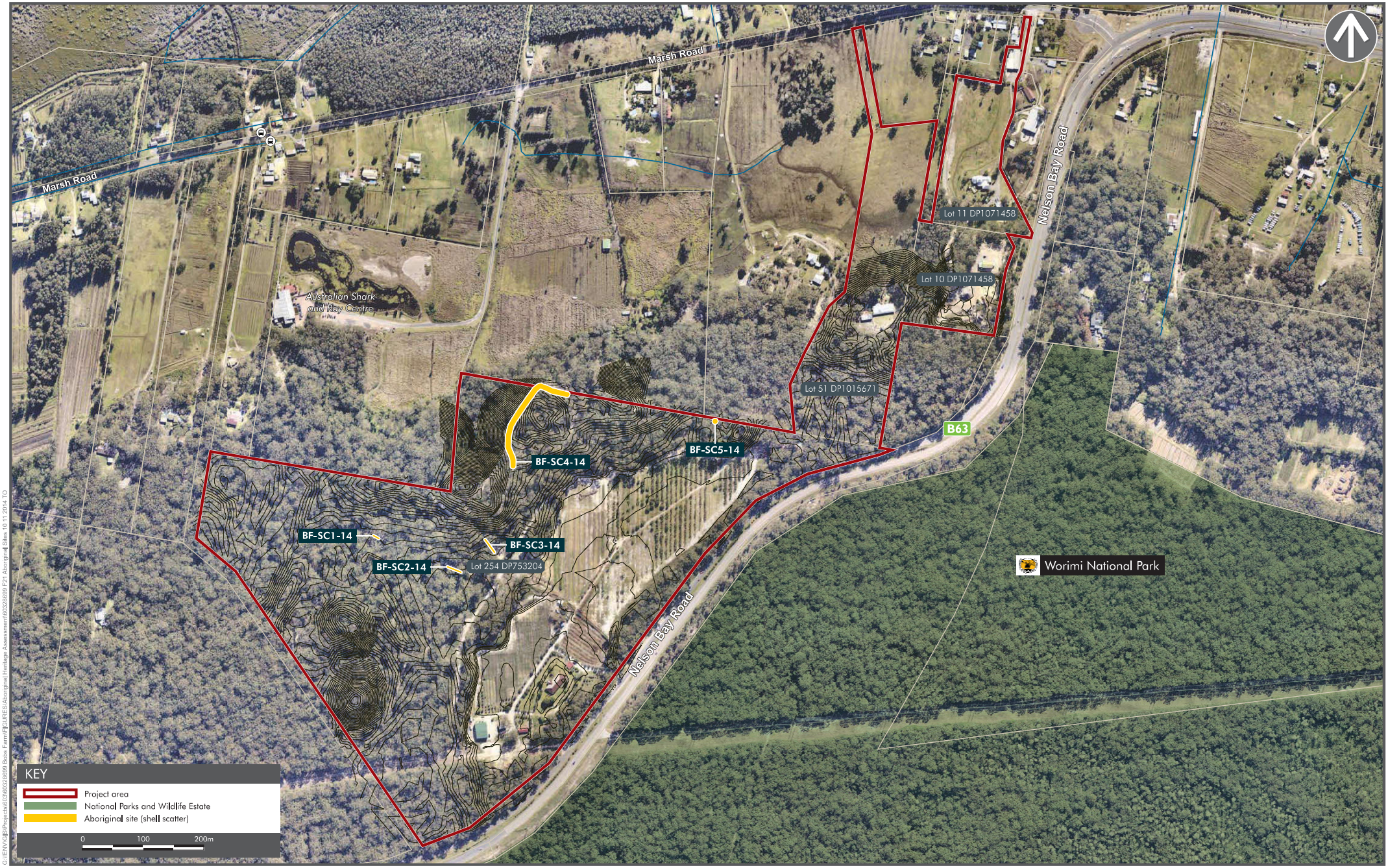
Plate 1 View across southern extent of BF-SC4-14. Note strip of remnant, actively-eroding land surface on right.



Plate 2 View across central portion of BF-SC4-14, facing north (intervening saddle between dune crests)



Plate 3 View across northern extent of BF-SC4-14, facing west. Vehicle track graded though dune crest. Midden shell present on remnant, eroding dune surface on left.



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AECOM

ABORIGINAL SITES

Aboroginal Heritage Assessment
Bobs Farm Sand Project
Bobs Farm, New South Wales

FIGURE 21

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville NSW 2220

Office of Environment & Heritage

Office Use Only

Site Number 38-5-0353

Date received / / Date entered into system / / Date catalogued / /

Entered by (I.D.)

Information Access

☐ Gender/male ☐ Gender/female ☐ Location restriction ☐ General restriction ☐ No access

Office Use Only

For Further Information Contact:

☐ **Nominated Trustee**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

☐ **Knowledge Holder**

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Client on system ☐

Aboriginal Heritage Unit or Cultural Heritage Division Contacts

Geographic Location

Site Name BF-SC5-14

Easting 406919 Northing 6373526 AGD/GDA GDA

Mapsheet

Zone 56 Location Method Differential GPS

Other Registration

Primary Recorder

Title | Surname | First Name | Initials

Dr | McLaren | Andrew

Organisation AECOM Australia Pty Ltd

Address 420 George Street Sydney NSW

Phone number 89340000 Fax 893400001

Date recorded 01/10/2014

Client on system ☐

NPWS Aboriginal Site Recording Form - Site Information

OPEN/CLOSE SITE Open Site

Site Context

Landform

- [ ] Mountainous
- [ ] Plain
- [ ] Rolling hills
- [x] Steep hills
- [ ] Undulating plain

Landform Unit

- [ ] Beach
- [ ] Coastal rock platform
- [x] Dune
- [ ] Intertidal flat
- [ ] Lagoon
- [ ] Tidal Creek
- [ ] Tidal Flat
- [ ] Cliff
- [ ] Crest
- [ ] Flat
- [ ] Lower slope
- [ ] Mid slope
- [ ] Upper slope
- [ ] Plain
- [ ] Ridge
- [ ] Tor
- [ ] Valley flat
- [ ] Levy
- [ ] Stream bank
- [ ] Stream channel
- [ ] Swamp
- [ ] Terrace
- [ ] Terrace flat

Slope

[ ] degrees

Vegetation

- [ ] Closed forest
- [ ] Grasslands
- [ ] Isolated clumps of trees
- [ ] Open forest
- [ ] Open woodland
- [ ] Scrub
- [ ] Woodland
- [x] Cleared
- [ ] Revegetated
- [ ] N/A

Land use

- [ ] Conservation
- [ ] Established urban
- [ ] Farming-intensive
- [ ] Farming-low intensity
- [ ] Forestry
- [ ] Industrial
- [ ] Mining
- [ ] Pastoral/grazing
- [ ] Recreation
- [ ] Semi-rural
- [ ] Service corridor
- [x] Transport corridor
- [ ] Urban expansion
- [ ] N/A

Water

Distance to permanent water source [ ] metres

Distance to temporary water source [ ] metres

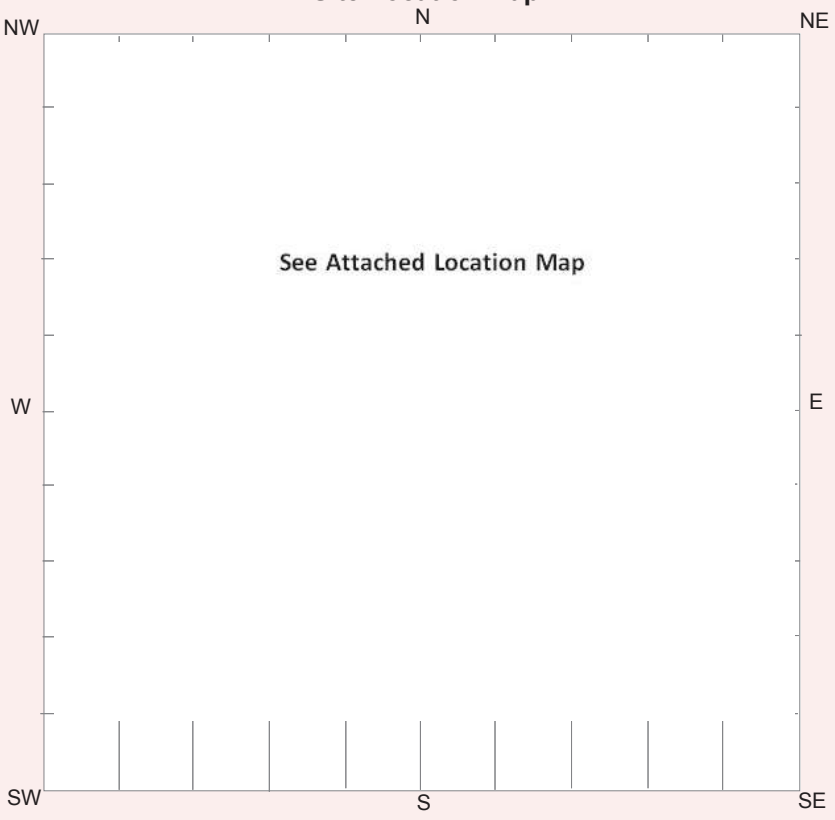
Name of nearest permanent water source

Name of nearest temporary water

Directions for Relocation

From southern intersection of Marsh Rd and Nelson Bay Rd travel north on Nelson Bay Rd for c.7km. Turn left off Nelson Bay Rd onto electricity easement immediately prior to orchard. Proceed west along easement for c.175 m. Follow track bordering orchard north for c.710 m. Take track on left to E-W track along boundary of Lot 254. Site c.30 m to east.

Site Location Map



Current Land Tenure

- [ ] Public
- [x] Private

National Park / other Government Dept.

Primary report **I.D.** [ ] (I.D. Office Use only)

Bobs Farm Sand Project - Aboriginal Cultural Heritage Assessment (AECOM Australia Pty Ltd 2014).

NPWS Aboriginal Site Recording Form - Site Information

General Site Information

Closed Site

Shelter/Cave Formation

- ☐ Boulder
- ☐ Wind erosion
- ☐ Water erosion
- ☐ Rock collapse

Rock Surface Condition

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Condition of Ceiling

- ☐ Boulder
- ☐ Sandstone platform
- ☐ Silica gloss
- ☐ Tessellated
- ☐ Weathered
- ☐ Other platform

Shelter Aspect

- ☐ North
- ☐ North East
- ☐ East
- ☐ South East
- ☐ South
- ☐ South West
- ☐ West
- ☐ North West

Open Site

Site Orientation

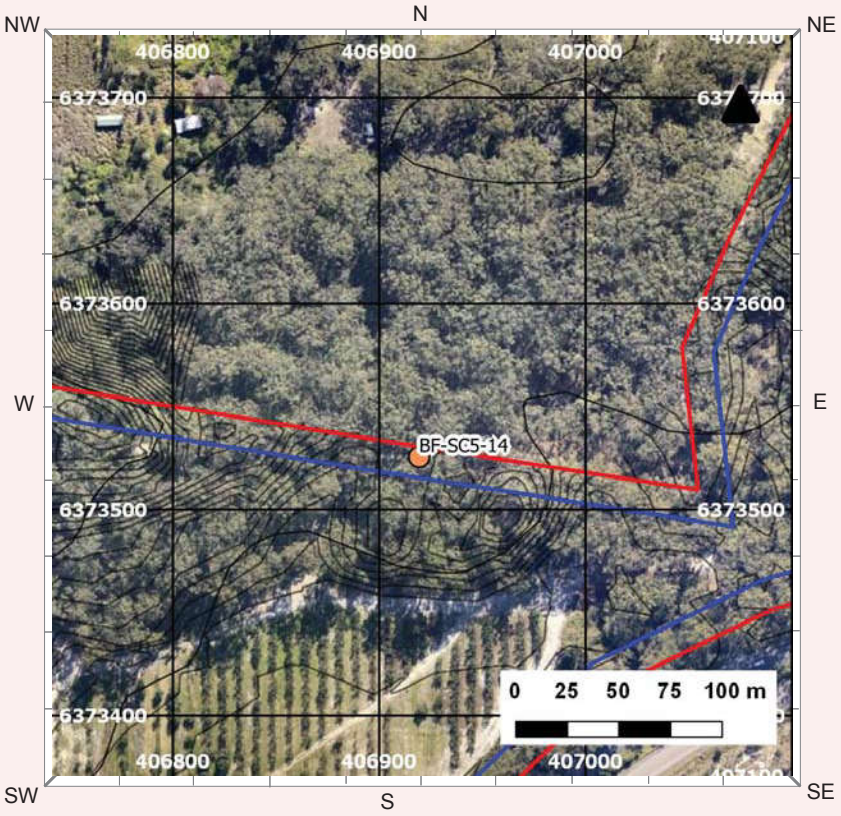
- ☐ N-S
- ☐ NE-SW
- ☐ E-W
- ☐ SE-NW
- ☐ N/A

Features

- ☐ 1. Aboriginal Ceremony & Dreaming
- ☐ 2. Aboriginal Resource & Gathering
- ☐ 3. Art
- ☐ 4. Artefact
- ☐ 5. Burial
- ☐ 6. Ceremonial Ring
- ☐ 7. Conflict
- ☐ 8. Earth Mound
- ☐ 9. Fish Trap
- ☐ 10. Grinding Groove
- ☐ 11. Habitation Structure
- ☐ 12. Hearth
- ☐ 13. Non Human Bone & Organic Material
- ☐ 14. Ochre quarry
- ☐ 15. Potential Archaeological Deposit
- ☐ 16. Stone Quarry
- ☑ 17. Shell
- ☐ 18. Stone Arrangement
- ☐ 19. Modified Tree
- ☐ 20. Water Hole

Site Plan

Indicate scale, boundaries of site, features



Site Dimensions

Closed Site Dimensions (m)

- ☐ Internal length
- ☐ Internal width
- ☐ Shelter height
- ☐ Shelter floor area

Open Site Dimensions (m)

- 50 cm — Total length of visible site
- 30 cm — Average width of visible site
- <1 m2 — Estimated area of visible site
- ☐ Length of assessed site area

Aboriginal Community Interpretation and Management Recommendations

Preliminary Site Assessment

Site Cultural & Scientific Analysis and Preliminary Management Recommendations

BF-SC5-14 consists of a small, spatially-discrete scatter of marine and estuarine midden shell on the northern edge of an unsealed, E-W trending light vehicle track on Lot 254 of DP753204. Shell is restricted to a c.50 cm x 30 cm area and has been brought to the surface by animal burrowing. Total of seventeen pieces of shell recorded during survey, with both marine and estuarine species represented (pipi (n = 2, both fragments), cockle (n = 6, inc. three complete shells), whelk (n = 3, all fragments) and oyster (n = 6, all fragments)). Relevant disturbance factors include native vegetation clearance and vehicle track construction and use. Surrounding native vegetation consists of remnant Coastal Sand Blackbutt Open Forest.

This section should only be filled in by the Endorsees

Endorsed by: ☐ Knowledge Holder ☐ Nominated Trustee ☐ Native Title Holder ☐ Community Consensus

Title | Surname | First Name | Initials

Organisation

Address

Phone number | Fax

Attachments (No.)

- ☑ A4 location map
- ☐ B/W photographs
- ☑ Colour photographs
- ☐ Slides
- ☐ Aerial photographs
- ☐ Site plans, drawings
- ☐ Recording tables
- ☐ Other
- ☐ Feature inserts-No. ☐

Comments

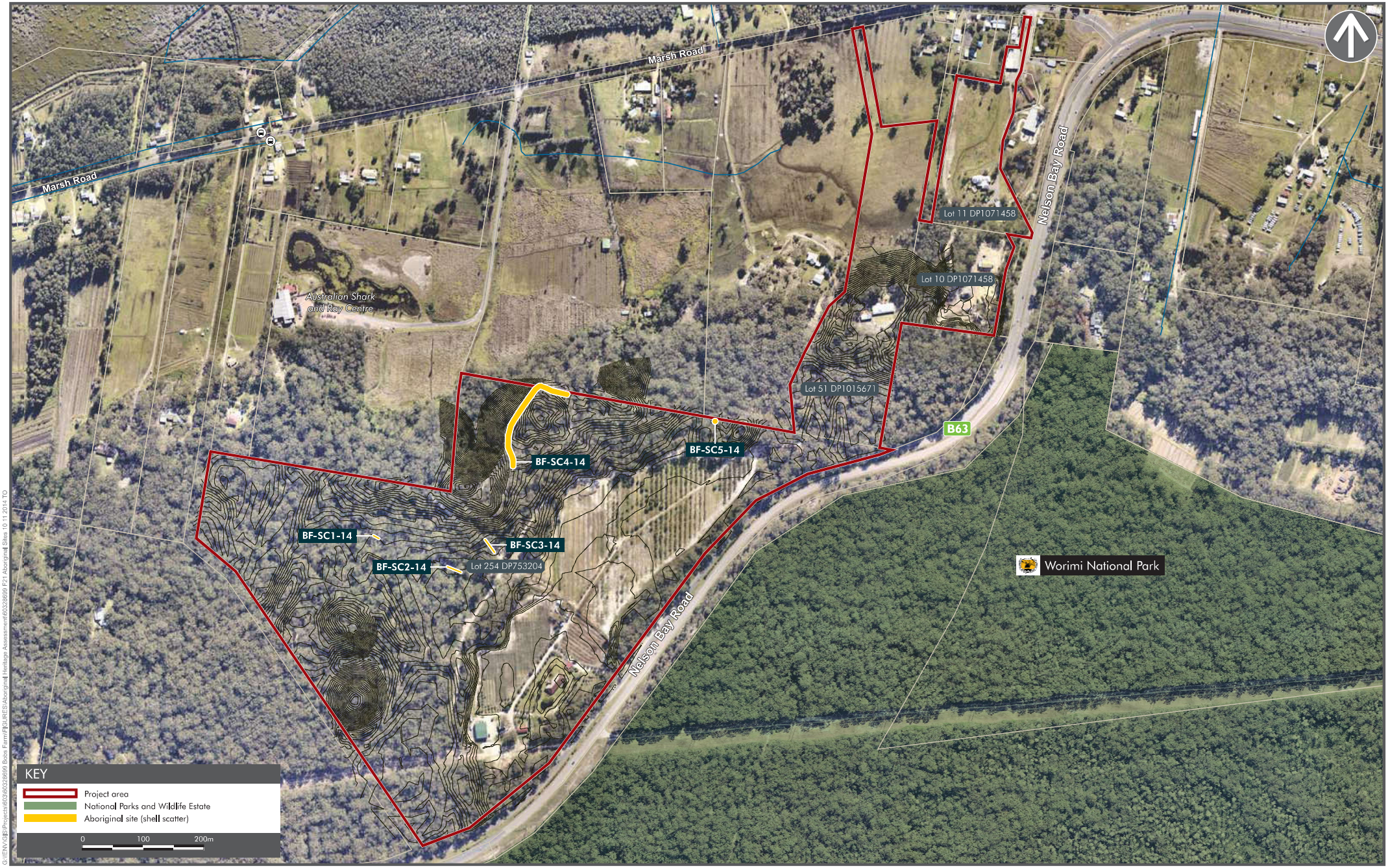
BF-SC5-14



Plate 1 View across BF-SC5-14, facing east. Flags marks location of scatter on northern edge of track.



Plate 2 Close-up of BF-SC5-14 scatter on northern edge of light vehicle track



G:\ENV\GIS\Projects\60360328699 Bobs Farm\FIGURES\Aboriginal Heritage Assessment\60328699 F21 Aboriginal Sites 10 11 2014 TO

AECOM

ABORIGINAL SITES

Aboroginal Heritage Assessment
Bobs Farm Sand Project
Bobs Farm, New South Wales

FIGURE 21

APPENDIX II: Aboriginal Consultation Log

1. Consultation log
2. Consultation letters
3. Newspaper advertisement
4. Transect sheets
5. Replies to survey methodology and ACHA report draft

Bobs Farm Sand Mine

Date	Communication Type	Sent/Received	Advitec Personnel Making/Taking Comms	Internal/External Comms	Name of Sending/Receiving Stakeholder	Content of Comms	Actions
10/04/2019	Phone	Sent By	Jake Brown	External	OEH	The number provided was wrong, I spoke to Kathrine and left a message for Steven Cox the contact officer. Kathrine gave me Steven's number and I tried the number left another message regarding consultation query.	Message left with office and on voicemail
12/04/2019	Phone	Sent By	Jake Brown	External	OEH - Steven Cox	Called Steven again reached voicemail and did not leave second message.	No message left
12/04/2019	Email	Sent By	Jake Brown	External	OEH	Email sent to rog.hcc@environment.nsw.gov.au requesting clarification of consultation requirements and mentioning sites do not appear to be registered.	

15/04/2019	Phone	Sent By	Jake Brown	External	OEH	Called OEH conservation and regional development Newcastle and asked for contact with Steven Cox or relevant party that could assist with answering questions. Message and phone number taken and told that someone would be in contact.	
16/04/2019	Phone	Received By	Jessica Blackman	External	OEH - Gillian Goode	Gillian called in response to correspondence. AECOM site registration will be investigated, consultation out of date. Discussion about ACHMP and AHIP	
6/05/2019	Phone	Sent By	Jake Brown	External	OEH - Gillian Goode	Called Gillian to ask question about follow up questions	Message left on voicemail
10/05/2019	Email	Sent By	Jake Brown	External	OEH - Gillian Goode	Email sent to Gillian with questions concerning consultation and AHIP process	

15/05/2019	Phone	Sent By	Jake Brown	External	OEH	Called OEH and asked to speak to Gillian Goode or Steven Cox. Bernedette said both unavailable and I left a message for Gillian.	
15/05/2019	Phone	Received By	Jake Brown	External	OEH - Gillian Goode	Gillian called and left a message as I had left for the day. Call was follow up to previous contact.	
16/05/2019	Phone	Sent By	Jake Brown	External	OEH - Gillian Goode	Called Gillan after return call 15/05/2019, message left	
17/05/2019	Email	Sent By	Jake Brown	External	OEH - Gillian Goode and Steven Cox	Email sent to both Gillian and Steven asking for clarity on project points	BCC sent to Bob Lander. Read receipt requested. Receipt from Steven, ROG BOX
21/05/2019	Email	Received By	Jake Brown	External	OEH - Gillian Goode	Gillain tried to call previous week and I was not in the office. Email includes site cards from AECOM sites which were not registered. Gillian states that IEH is writing a response to queries about Bobs Farm.	Reply sent saying attempted call to Gillian next morning.

6/06/2019	Email	Sent By	Rod Bennison	External	OEH - Gillian Goode	Follow up email to Gillian asking for details about job, after a phone conversation	
13/06/2019	In Person	Sent By	Jake Brown	External	OEH - Gillian Goode and Steven Cox	Jessica and I met at OEH with Gillian and Steven to discuss project. OEH outlined they require an ACHA as other is considered out of date, advise excavation and ACHMP. Jake requested written comfirmation and sent email to Gillian and Steven outlining meeting points and requesting confirmation. Phone after meeting from Gillian, discussing excavation points shown in meeting and refering a few document as sources/references.	Email reply from confimration email from Steven asking future correspondence sent to department email, not personal work emails. Confirmation email resent to department email as requested 14/6/2019.
14/06/2019	Email	Sent By	Jake Brown	External	Hunter LLS	Initial ACHA consultation letter sent	Automated acknowledgement response received
14/06/2019	Email	Sent By	Jake Brown	External	OEH Newcastle	Initial ACHA consultation letter sent	OEH response from Steven Cox 20/6/2019

14/06/2019	Email	Sent By	Jake Brown	External	Port Stephens Council	Initial ACHA consultation letter sent	Automated acknowledgement response received. Response received 18/6/2019 saying contact Worimi LALC
14/06/2019	Email	Sent By	Jake Brown	External	NTSCORP	Initial ACHA consultation letter sent	
14/06/2019	Email	Sent By	Jake Brown	External	NNTT	Initial ACHA consultation letter sent	Response 18/6/2018 - Freehold land
14/06/2019	Email	Sent By	Jake Brown	External	Registrar Office	Initial ACHA consultation letter sent	
14/06/2019	Email	Sent By	Jake Brown	External	Worimi LALC	Initial ACHA consultation letter sent	
17/06/2019	Email	Sent By	Jake Brown	External	Fairfax - Port Stephens Examiner: Vicki Laidler	Organising classifieds ad for community consultation - 4 July 2019	Ad placed for 4 July 2019
18/06/2019	Email	Received By	Jake Brown	External	Port Stephens Council - Amber Herrmann Community Development and Engagement Coordinator	Response to consultation letter saying consult Worimi LALC	
18/06/2019	Email	Received By	Jake Brown	External	NNTT Geospatial search	NNTT concludes land is Freehold	
20/06/2019	Email	Received By	Jake Brown	External	OEH - Steven Cox	OEH consultation response with Port Stephens LGA names	
20/06/2019	Email	Sent By	Jake Brown	External	Fairfax - Port Stephens Examiner: Vicki Laidler	Inquiry sent to confirm ad was placed and no further details needed	

28/06/2019	Email	Received By	Jake Brown	External	Jamie Merrick - Worimi LALC	Registered interest for Worimi LALC. Cc of Lennie and Anthony Anderson	Record in log and sent reply outlining dates for general registration and methodology
28/06/2019	Email	Received By	Jake Brown	External	Lennie Anderson	Nur-Run-Gee representing Worimi TEOG registered interest	Reply sent thanking Lennie for registration
2/07/2019	Email	Sent By	Jake Brown	External	A1 Indigenous Services, AGA Services, Cacatua Culture Consultants, Corroboree Aboriginal Corporation, Didge Ngunawal Clan, Divine Diggers Aboriginal Cultural Consultants, Hunters & Collectors, Karuah Indigenous Corporation, Karuah Local Aboriginal Land Council, Kawul Pty Ltd trading as Wonn1 Sites, Lakkari NTCG, Lower Hunter Aboriginal Incorporated, Lower Hunter Wonnarua Cultural Services, Mindaribba Local Aboriginal Land Council, Murra Bidgee Mullangari Aboriginal Corporation, Mur-Roo-Ma Inc., Roger Matthews	Initial contact for potential interested parties (OEH list)	Email with letter attached
2/07/2019	Email	Sent By	Jake Brown	External	Jeffery Matthews, Wonnarua Elders Council and Carol Ridgeway-Bissett	Initial contact for potential interested parties (OEH list)	Letter sent

2/07/2019	Email	Received By	Jake Brown	External	Corroboree Aboriginal Corporation - Marilyn Carroll-Johnson	Registered interest - requests details not sent to OEH and LALC	Received EOI
2/07/2019	Email	Received By	Jake Brown	External	Murra bidgee Mullangari - Ryan Johnson	Registered interest - site officer Ryan Johnson (sent by Darleen)	
2/07/2019	Email	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Registered interest	
4/07/2019	Email	Received By	Jake Brown	External	Mur roo ma inc - Anthony Anderson	Registered interest	Bec Young (Operation Manager), Anthony Anderson (CEO)
5/07/2019	Email	Received By	Jake Brown	External	Worimi TOIC - Candy Towers	Registered interest	
5/07/2019	Email	Received By	Jake Brown	External	Widescope - Steven Hickey	Registered interest	
9/07/2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Registered interest	
15/07/2019	Email	Received By	Jake Brown	External	A1 Indigenous Services - Carolyn Hickey	Registered interest	
19/07/2019	Email	Received By	Jake Brown	External	All RAPs	Methodology sent for review/asking for any relevant cultural knowledge for the site.	Bcc all RAPs in email with methodology and reply forms.
19/07/2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Responsed with forms from methodology. Inidcated he had cultural knowledge of the are and was willing to verbally provide this for report at the time of response.	

20/07/2019	Email	Received By	Jake Brown	External	Deidre Perkins	Late registered party, methodology sent 22 July	LATE REGISTERING
21/07/2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Late registered party, methodology sent 22 July	LATE REGISTERING- Provided cultural knowledge holders: herself, Worimi LALC, Candy Towers and Lennie Anderson
22/07/2019	Email	Received By	Jake Brown	External	Deidre Perkins	Question sent regarding the methodology email and late registration. Response saying email from 20 July was accepted as registration.	
23/07/2019	Email	Received By	Jake Brown	External	Ryan Johnson - Murra Bidgee Mullangari	Responded to methodology - agreed with method	Replied to read receipt
23/07/2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Responded to methodology - agreed with method	
25/07/2019	Email	Received By	Jake Brown	External	Tom Miller - Lower Hunter Wonnarua Cultural Services	Respondeed late to registration - accepted and sent methdology for review. Mentioned nominal reply date 20 August and that the report should be out early September for review.	Tom cc Steven Cox from OEH. Reply included Steven.

30/07/2019	Email	Sent By	Jake Brown	External	Jamie Merrick - Worimi LALC, Anthony Anderson - Mur-Roo-MA and Lennie Anderson - Nur-Run-Gee	Inquiring about ability to do fieldwork. If possible please provide insurance details. Asked Lennie if details had chnaged since Shearwater job (though vehicle was not provided). Insurances (public liability, workers comp and vehicle) and daily/hourly rate.		
30/07/2019	Email	Received By	Jake Brown	External	Jamie Merrick - Worimi LALC	Replied that WLALC can provide a RAP for Bobs Farm. Included rates for day and half day. Also mentioned knowledge holders Anthony Anderson, Lennie Anderson and Dave Feeney. Second email with insurances attached.	Reply sent thanking Jamie for emails and information, as well as saying that I will be in contact mid August to confirm details. Information saved.	
30/07/2019	Email	Received By	Jake Brown	External	Lennie Anderson	Replied that Nur-Run-Gee can provide a RAP for fieldwork. Confirmed insurances and rates the same. Likely vehicle insurance policy number provided.	Reply sent thanking Lennie, as well as saying that I will be in contact mid August to confirm detail. Information saved.	

1/08/2019	Email	Received By	Jake Brown	External	Mur roo ma inc - Bec Young	Replied that Mur Roo Ma can provide a RAP. Provided public liability and workers comp insurances and rates.	reply sent thanking Bec for information, as well as saying that I will be in contact mid August to confirm detail.
16/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma inc, Worimi LALC and Nur Run Gee (field RAPS)	Details about field work meeting - 8:30 am start, meeting address and map, contact details.	
19/08/2019	Email	Sent By	Jake Brown	External	OEH and Worimi LALC	Sent notification of registered parties minus those who wished to withhold details	
20/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma Inc - Bec Young	Agreed with methodology and noted the area and lot had connection to spiritual, cultural and social values. Mentioned Chris Collison will be the RAP from Mur roo ma Inc for survey.	
20/08/2019	Email	Sent By	Jake Brown	External	DPIE (OEH) and Worimi LALC	Amendment to notification list	

29/08/2019	Phone	Sent By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Called to asked Dave if he had any additional information as indicated on methodlogy response. I asked Dave if he would prefer to responded after reading draft report. He indicated that was preferable.	
30/08/2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Asked for details of field work for invoice.	Sent reply to all fieldwork RAPs
30/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma inc, Worimi LALC and Nur Run Gee (field RAPS)	Thanked groups for effort during fieldwork. Mentioned field hours for 26 and 27 (8am to 1:30pm) and asked invoices to be made out to Ammos Resource Management Pty Ltd. Mentioned I would forward the invoices to my client upon receipt.	
31/08/2019	Email	Sent By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Nur Run Gee normally charges for full day after 4 hours.	CC included Mur Roo Ma and Worimi LALC
6/09/2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Sent invoice for survey	Forwarded to client and responded to RAP to acknowledge receipt of invoice

9/09/2019	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Sent invoice for survey Friday 6/9/2019	Forwarded to client and responded to RAP to acknowledge receipt of invoice
10/09/2019	Email	Received By	Jake Brown	External	Worimi LALC	Sent invoice for survey	Forwarded to client (invoice says Brendan Lilley not Jaime Merrick)
12.9.2019	Email	Sent By	Jake Brown	External	All RAPs	Draft ACHAR sent for review. Large file so three emails sent. 1. report, 2. appendices 1, 3. appendices 2.	
12.9.2019	Email	Sent By	Jake Brown	External	OEH Newcastle	Draft ACHAR with limited appendices due to size and test excavation methodology sent to OEH for potential review as advised in May meeting.	Read receipt received from OEH 12.9.2019
8.10.2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Karuah Indigneous Corp has been having trouble with past email address and has moved to dave.feeney@bigpond.com as a temporary measure	
9.10.2019	Email	Received By	Jake Brown	External	All RAPs	Reminder of ACHAR review ending 11 October 2019 if anyone wishes to comment	

9.10.2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Accepts and agrees with report.	
9.10.2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Supports recommendations, wishes to stress cultural values of the area and surroundings	
11.10.2019	Email	Received By	Jake Brown	External	Widescope - Steven Hickey	Supports recommendations of the draft ACHAR	
13.11.2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Bobs Farm ACHAR	
18.11.2019	Email	Received By	Jake Brown	External	Worimi LALC	Resent invoice. Return query confirmed same invoice and not error like before. Emailed client to follow up.	Forwarded to client. Reply from client forwarded 19.11.2019. Reply received from Worimi 2.12.2019 comfirming payment was received in September.

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

AGA Services
22 Ibis Parade
Woodberry NSW 2322

Attention: **Ashley, Gregory & Adam Sampson**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear AGA Services,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

As per the *Aboriginal Cultural Heritage Requirements for Proponents* (2010), you are advised of the following:

- Unless otherwise specified, if you register your interest your details will be provided to OEH and the Local Aboriginal Land Council (LALC);
- The LALC's who hold cultural knowledge relevant to the proposed project area that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project who wish to register, do so as an Aboriginal organisation not an individual; and

- Where an Aboriginal organisation representing Aboriginal people who hold cultural knowledge relevant to the proposed project area and that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project area who wish to register, must nominate a contact person and provide written confirmation and contact details of this person or persons.

As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

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1 July, 2019

Cacatua Culture Consultants
22 Ibis Parade
Woodberry NSW 2322

Attention: **Donna & George Sampson**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Donna and George,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

As per the *Aboriginal Cultural Heritage Requirements for Proponents* (2010), you are advised of the following:

- Unless otherwise specified, if you register your interest your details will be provided to OEH and the Local Aboriginal Land Council (LALC);
- The LALC's who hold cultural knowledge relevant to the proposed project area that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project who wish to register, do so as an Aboriginal organisation not an individual; and

- Where an Aboriginal organisation representing Aboriginal people who hold cultural knowledge relevant to the proposed project area and that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project area who wish to register, must nominate a contact person and provide written confirmation and contact details of this person or persons.

As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

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1 July, 2019

Carol Ridgeway-Bissett
33 Ullora Road
Nelson Bay NSW 2315

Attention: **Carol Ridgeway-Bissett**

Subject: **Bobs Farm Sand Mine**

Dear Carol,

I am writing to inform you as a registered party for the AECOM Aboriginal Cultural Heritage Assessment for Bobs Farm Sand Mine conducted in 2014 and 2015, that the Office of Environment and Heritage has provided recommendations following that report. The recommendations include for an Aboriginal Cultural Heritage Management Plan prepared in consultation with the Aboriginal community and subsurface testing.

In further consultation with the Office of Environment and Heritage it was recommended that a new round of consultation be undertaken given 4 years have passed since the AECOM report was finalised. Please find enclosed with this letter a consultation notice seeking interested parties to register to be included in a new Aboriginal Cultural Heritage Assessment.

Yours Sincerely,

Jake Brown

Archaeologist
Advitech Pty Limited

Enclosed: Consultation notice
Job No.: J0190088
Folder No.: F16032
Our Ref: Cover letter to ACHA RAPS.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
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1 July, 2019

Carol Ridgeway-Bissett
33 Ullora Road
Nelson Bay NSW 2315

Attention: **Carol Ridgeway-Bissett**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Carol,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

As per the *Aboriginal Cultural Heritage Requirements for Proponents* (2010), you are advised of the following:

- Unless otherwise specified, if you register your interest your details will be provided to OEH and the Local Aboriginal Land Council (LALC);
- The LALC's who hold cultural knowledge relevant to the proposed project area that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project who wish to register, do so as an Aboriginal organisation not an individual; and

- Where an Aboriginal organisation representing Aboriginal people who hold cultural knowledge relevant to the proposed project area and that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project area who wish to register, must nominate a contact person and provide written confirmation and contact details of this person or persons.

As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

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1 July, 2019

Corroboree Aboriginal Consultants
PO Box 3340
Rouse Hill NSW 2155

Attention: **Marilyn Carroll-Johnson**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Marilyn,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

As per the *Aboriginal Cultural Heritage Requirements for Proponents* (2010), you are advised of the following:

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Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

Didge Ngunawal Clan
7 Siskin St
Quakers Hill NSW 2763

Attention: **Paul Boyd and Lilly Carroll**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Paul and Lilly,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

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1 July, 2019

Divine Diggers Aboriginal Cultural Consultants
6 Ashleigh Street
Heddon Greta NSW 2321

Attention: **Deidre Perkins**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Deidre,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

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As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
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14 June, 2019

To Whom it May Concern
Hunter Local Land Services

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

Dear Sir/Madam,

We act on behalf of Tattersall Lander Pty Ltd, who are investigating a proposed sand mine development. The proposed sand mine is owned by Ammos Resource Management Pty Ltd, located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area. In accordance with Section.4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest and hold knowledge that would assist in determining the cultural significance of the area.

Advitech Environmental (Advitech Pty Limited) has been contracted to conduct a subsurface testing program and an Aboriginal Cultural Heritage Management Plan as part of an Environmental Impact Statement under the *Environmental Planning and Assessment Act 1979*. Further to the Aboriginal Cultural Heritage Assessment, an Aboriginal Heritage Impact Permit (AHIP) under Part 6 of the *National Parks and Wildlife Act 1974* will be sought as part of a subsurface testing program, once initial investigation has concluded.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in a process of consultation as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010).

We would like to request that you contact us in writing within 14 days of the date of this letter to indicate the names of Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment. The contact details for reply are:

Jake Brown
Advitech Environmental Pty Ltd
PO Box 207
MAYFIELD NSW 2304
Jake.Brown@advitech.com.au

Please be advised that the notification period is set to end on the **1 July 2019**.

Kind regards,

Jake Brown
Archaeologist
Advitech Pty Limited

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1 July, 2019

Hunters and Collectors
U211 Walowa Street
Narrabri NSW 2390

Attention: **Tania Matthews**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Tania,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

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Jake Brown

Advitech Environmental

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

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1 July, 2019

Jeffery Matthews
6 Eucalypt Avenue
Muswellbrook NSW 2333

Attention: **Jeffery Matthews**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Jeffery,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Archaeologist
Advitech Pty Limited

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1 July, 2019

Karuah Indigenous Corporation
1/7 Mustons Road
Karuah NSW 2324

Attention: **David Feeney**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear David,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Archaeologist
Advitech Pty Limited

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1 July, 2019

Karuah Local Aboriginal Land Corporation
16 Mustons Road
Karuah NSW 2324

Attention: **CEO**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear CEO,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

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1 July, 2019

Kawul Pty Ltd
619 Main Road
Glendale NSW 2324

Attention: **Arthur Fletcher**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Arthur,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

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1 July, 2019

Lakkari NTCG
C/-4/39 Short Street
Forster NSW 2428

Attention: **Mick Leon**

Subject: **Bobs Farm Sand Mine**

Dear Mick,

I am writing to inform you as a registered party for the AECOM Aboriginal Cultural Heritage Assessment for Bobs Farm Sand Mine conducted in 2014 and 2015, that the Office of Environment and Heritage has provided recommendations following that report. The recommendations include for an Aboriginal Cultural Heritage Management Plan prepared in consultation with the Aboriginal community and subsurface testing.

In further consultation with the Office of Environment and Heritage it was recommended that a new round of consultation be undertaken given 4 years have passed since the AECOM report was finalised. Please find enclosed with this letter a consultation notice seeking interested parties to register to be included in a new Aboriginal Cultural Heritage Assessment.

Yours Sincerely,

Jake Brown

Archaeologist
Advitech Pty Limited

Enclosed: Consultation notice
Job No.: J0190088
Folder No.: F16032
Our Ref: Cover letter to ACHA RAPS.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
Email mail@advitech.com.au Web www.advitech.com.au PO Box 207 Mayfield NSW 2304
Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

Lakkari NTCG
c/-4/39 Short Street
Forster NSW 2428

Attention: **Mick Leon**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Mick,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

As per the *Aboriginal Cultural Heritage Requirements for Proponents* (2010), you are advised of the following:

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As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
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1 July, 2019

Lower Hunter Aboriginal Incorporated
5 Killara Drive
Cardiff South NSW 2285

Attention: **David Ahoy**

Subject: **Bobs Farm Sand Mine**

Dear David,

I am writing to inform you as a registered party for the AECOM Aboriginal Cultural Heritage Assessment for Bobs Farm Sand Mine conducted in 2014 and 2015, that the Office of Environment and Heritage has provided recommendations following that report. The recommendations include for an Aboriginal Cultural Heritage Management Plan prepared in consultation with the Aboriginal community and subsurface testing.

In further consultation with the Office of Environment and Heritage it was recommended that a new round of consultation be undertaken given 4 years have passed since the AECOM report was finalised. Please find enclosed with this letter a consultation notice seeking interested parties to register to be included in a new Aboriginal Cultural Heritage Assessment.

Yours Sincerely,

Jake Brown

Archaeologist
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1 July, 2019

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5 Killara Drive
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Attention: **David Ahoy**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

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1 July, 2019

Lower Hunter Wonnarua Cultural Services
51 Bowden Street
Heddon Greta NSW 2321

Attention: **Lea-Anne Ball and Uncle Tommy Miller**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Lea-Anne and Tommy,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake.brown@advitech.com.au

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Jake Brown

Archaeologist
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1 July, 2019

Mindaribba Local Aboriginal Land Council
1A Chelmsford Drive
Metford NSW 2323

Attention: **CEO**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear CEO,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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1 July, 2019

Mur-Roo-Ma Inc.
7 Vardon Road
Fern Bay NSW 2295

Attention: **Anthony Anderson**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Anthony,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

Archaeologist
Advitech Pty Limited

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1 July, 2019

Mur-Roo-Ma Inc.
Anthony Anderson
7 Vardon Road
Fern Bay NSW 2295

Attention: **Anthony Anderson**

Subject: **Bobs Farm Sand Mine**

Dear Anthony,

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In further consultation with the Office of Environment and Heritage it was recommended that a new round of consultation be undertaken given 4 years have passed since the AECOM report was finalised. Please find enclosed with this letter a consultation notice seeking interested parties to register to be included in a new Aboriginal Cultural Heritage Assessment.

Yours Sincerely,

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1 July, 2019

Murra Bidgee Mullangari Aboriginal Corporation
PO Box 246
Seven Hills NSW 2147

Attention: **Ryan Johnson & Darleen Johnson-Carroll**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Ryan and Darleen,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Archaeologist
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14 June, 2019

To Whom it May Concern
National Native Title Tribunal
Level 17 Law Courts Queens Square
Sydney NSW 2000

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

Dear Sir/Madam,

We act on behalf of Tattersall Lander Pty Ltd, who are investigating a proposed sand mine development. The proposed sand mine is owned by Ammos Resource Management Pty Ltd, located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area. In accordance with Section.4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest and hold knowledge that would assist in determining the cultural significance of the area.

Advitech Environmental (Advitech Pty Limited) has been contracted to conduct a subsurface testing program and an Aboriginal Cultural Heritage Management Plan as part of an Environmental Impact Statement under the *Environmental Planning and Assessment Act 1979*. Further to the Aboriginal Cultural Heritage Assessment, an Aboriginal Heritage Impact Permit (AHIP) under Part 6 of the *National Parks and Wildlife Act 1974* will be sought as part of a subsurface testing program, once initial investigation has concluded.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in a process of consultation as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010).

We would like to request that you contact us in writing within 14 days of the date of this letter to indicate the names of Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment. The contact details for reply are:

Jake Brown
Advitech Environmental Pty Ltd
PO Box 207
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Jake.Brown@advitech.com.au

Please be advised that the notification period is set to end on the **1 July 2019**.

Kind regards,

Jake Brown
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14 June, 2019

To Whom it May Concern
Native Title Services Corp
PO Box 2105
Strawberry Hills NSW 2012

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

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1 July, 2019

Nur-Run-Gee Pty Ltd
22 Popplewell Road
Fern Bay NSW 2295

Attention: **Leonard Anderson**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Leonard,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

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As per the *Aboriginal Cultural Heritage Requirements for Proponents* (2010), you are advised of the following:

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- The LALC's who hold cultural knowledge relevant to the proposed project area that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project who wish to register, do so as an Aboriginal organisation not an individual; and

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As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

Nur-Run-Gee Pty Ltd
Anthony Anderson
7 Vardon Road
Fern Bay NSW 2295

Attention: **Leonard Anderson**

Subject: **Bobs Farm Sand Mine**

Dear Leonard,

I am writing to inform you as a registered party for the AECOM Aboriginal Cultural Heritage Assessment for Bobs Farm Sand Mine conducted in 2014 and 2015, that the Office of Environment and Heritage has provided recommendations following that report. The recommendations include for an Aboriginal Cultural Heritage Management Plan prepared in consultation with the Aboriginal community and subsurface testing.

In further consultation with the Office of Environment and Heritage it was recommended that a new round of consultation be undertaken given 4 years have passed since the AECOM report was finalised. Please find enclosed with this letter a consultation notice seeking interested parties to register to be included in a new Aboriginal Cultural Heritage Assessment.

Yours Sincerely,

Jake Brown

Archaeologist
Advitech Pty Limited

Enclosed: Consultation notice
Job No.: J0190088
Folder No.: F16032
Our Ref: Cover letter to ACHA RAPS.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

14 June, 2019

To Whom it May Concern
OEH Conservation and Regional Delivery
Level 4, 26 Honeysuckle Drive
Newcastle NSW 2309

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

Dear Sir/Madam,

We act on behalf of Tattersall Lander Pty Ltd, who are investigating a proposed sand mine development. The proposed sand mine is owned by Ammos Resource Management Pty Ltd, located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area. In accordance with Section.4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest and hold knowledge that would assist in determining the cultural significance of the area.

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We would like to request that you contact us in writing within 14 days of the date of this letter to indicate the names of Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment. The contact details for reply are:

Jake Brown
Advitech Environmental Pty Ltd
PO Box 207
MAYFIELD NSW 2304
Jake.Brown@advitech.com.au

Please be advised that the notification period is set to end on the **1 July 2019**.

Kind regards,

Jake Brown
Archaeologist
Advitech Pty Limited

Job No.: J0190088
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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

14 June, 2019

To Whom it May Concern
Port Stephens Council
PO Box 42
Raymond Terrace NSW 2324

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

Dear Sir/Madam,

We act on behalf of Tattersall Lander Pty Ltd, who are investigating a proposed sand mine development. The proposed sand mine is owned by Ammos Resource Management Pty Ltd, located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area. In accordance with Section.4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest and hold knowledge that would assist in determining the cultural significance of the area.

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MAYFIELD NSW 2304
Jake.Brown@advitech.com.au

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Archaeologist
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14 June, 2019

The Registrar
Office of the Registrar
L3, 2-10 Wentworth Street
Parramatta NSW 2150

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

Dear Sir/Madam,

We act on behalf of Tattersall Lander Pty Ltd, who are investigating a proposed sand mine development. The proposed sand mine is owned by Ammos Resource Management Pty Ltd, located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area. In accordance with Section.4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest and hold knowledge that would assist in determining the cultural significance of the area.

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Archaeologist
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1 July, 2019

Roger Matthews Consultancy
105 View Street
Gunnedah NSW 2380

Attention: **Roger Matthews**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Roger,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

Steve Talbott
73 Kiah Road
Gillieston Heights NSW 2321

Attention: **Steve Talbott**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Steve,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
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1 July, 2019

Tamara Towers
Unit 4, 16-18 Simpson Court
Mayfield NSW 2304

Attention: **Tamara Towers**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Tamara,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

Archaeologist
Advitech Pty Limited

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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

14 June, 2019

To Whom it May Concern
Worimi Local Aboriginal Land Council
2163 Nelson Bay Road
Williamtown NSW 2318

Subject: **Aboriginal Cultural Heritage Consultation**
Cultural Heritage Assessment at Bobs Farm Sand Mine

Dear Sir/Madam,

We act on behalf of Tattersall Lander Pty Ltd, who are investigating a proposed sand mine development. The proposed sand mine is owned by Ammos Resource Management Pty Ltd, located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area. In accordance with Section.4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest and hold knowledge that would assist in determining the cultural significance of the area.

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Advitech Environmental Pty Ltd
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MAYFIELD NSW 2304
Jake.Brown@advitech.com.au

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Kind regards,

Jake Brown
Archaeologist
Advitech Pty Limited

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1 July, 2019

Wattaka Wonnarua CC Service
4 Kennedy Street
Singleton NSW 2330

Attention: **Des Hickey**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Des,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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1 July, 2019

Widescope Indigenous Group
73 Russell Street
Emu Plains NSW 2750

Attention: **Steven Hickey**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Steven,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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- Where an Aboriginal organisation representing Aboriginal people who hold cultural knowledge relevant to the proposed project area and that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project area who wish to register, must nominate a contact person and provide written confirmation and contact details of this person or persons.

As per 3.4 of the *Aboriginal Cultural Heritage Requirements for Proponents* (2010) the community consultation does not necessarily involve employment opportunities for registered parties. Registered Parties may be asked to provide contractual services as part of the project field assessment.

Should you wish or the Council wish to register your interest in this project, or notify us of other persons who may be interested, please register in writing no later than **18 July, 2019**, to:

Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

Upon registration of interest, information packages with greater detail will be forwarded to you or those you nominate. However, please do not hesitate to contact me should you have any questions about the proposed project and in regard to this letter of invitation.

We would also like to request that you contact us in writing or by email by **18 July, 2019**, to indicate the names of any other Aboriginal people that you believe hold cultural knowledge and or who may be interested in being involved in the cultural heritage assessment.

Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
Email mail@advitech.com.au Web www.advitech.com.au PO Box 207 Mayfield NSW 2304
Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

Wonnarua Elders Council
PO Box 844
Cessnock NSW 2325

Attention: **Richard Edwards**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Richard,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and potential Aboriginal Heritage Impact Permit to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the development application. As part of the subsurface testing program an AHIP is required.

In accordance with NSW Government guidelines, Aboriginal people and or Aboriginal groups who hold cultural knowledge relevant to determining the significance of Aboriginal objects(s) and or place(s) relating to the proposed project area are invited to register an interest in the consultation process as outlined in the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (DECCW, 2010). This is an invitation for Aboriginal people who hold cultural knowledge relevant to the proposed project area and who can determine the significance of Aboriginal object(s) and/or place(s) in this area of the proposed project to register an interest in a process of community consultation.

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Jake Brown

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MAYFIELD NSW 2304

Jake.brown@advitech.com.au

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

7 Riverside Drive, Mayfield West NSW 2304 AUSTRALIA
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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

Worimi Traditional Owners Indigenous Corporation
36 Avon Street
Mayfield NSW 2304

Attention: **Candy Lee Towers**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Candy,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

Advitech Environmental

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MAYFIELD NSW 2304

Jake.brown@advitech.com.au

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

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Advitech Pty Limited t/a Advitech Environmental ABN 29 003 433 458 P 02 4924 5400 F 02 4967 3772

1 July, 2019

A1 Indigenous Services
10 Marie Pitt Place
Glenmore Park NSW 2745

Attention: **Carolyn Hickey**

Subject: **Aboriginal Cultural Heritage Assessment at Bobs Farm**

Dear Carolyn,

We act on behalf of Tattersall Lander, who are investigating a proposed sand mine at Bobs Farm. The development is located on Lots 10 and 11 on DP1071458, Lot 254 on DP753204 and Lot 51 on DP1015671 in the Port Stephens Council area. Integral to the investigation is an Aboriginal Cultural Heritage Assessment of the proposed area conducted in 2014/2015 and 2019 OEH recommendations. In accordance with s.4.1.2 of the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH, previously DECCW, 2010), we are writing to you to ascertain whether you are aware of Aboriginal people who may have interest in the area and hold knowledge that would assist in determining the cultural significance of the area.

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Jake Brown

Advitech Environmental

P O Box 207

MAYFIELD NSW 2304

Jake.brown@advitech.com.au

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Yours faithfully,

Jake Brown

Archaeologist
Advitech Pty Limited

Job No.: J0190088
Folder No.: F16032
Our Ref: Registration of interest RAP.docx

Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 8:53 AM
To: Sites
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Jaime,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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- Appendices 1 of 2
- Appendices 2 of 2

There will be three emails with attachments including this one with the report. The review period is set finish on the **11 October, 2019**. If you have any question please let me know. The recommended course of action at present will be an AHIP for test excavation sites with shell and the area in general. Consultation will be carried out in the future regarding excavation methodology. If people have a comment on storage locations please reply with any response to the ACHAR.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 8:59 AM
To: lennie.anderson011 lennie.anderson011
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Lennie,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Regards,

Jake

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jake.brown@advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:03 AM
To: murrabidgeemullangari@yahoo.com.au
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Ryan,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Regards,

Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:08 AM
To: lilly carroll
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Lilly and Paul,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:12 AM
To: Anthony Anderson
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Anthony and Bec,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Regards,

Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:17 AM
To: Worimi TOC
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Candy,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Jake

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:21 AM
To: Widescope.group@live.com
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Steven,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:24 AM
To: David Feeney
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Dave,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:28 AM
To: Cazadirect@live.com
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Carolyn,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Jake

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:33 AM
To: Deidre Perkins
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Deidre,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Jake

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:37 AM
To: Tamara Towers
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Tamara,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Regards,

Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:41 AM
To: tn.miller@southernphone.com.au
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Tom,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

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Regards,

Jake

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jake.brown@advitech.com.au

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www.advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 12 September 2019 9:45 AM
To: corroboreecorp@bigpond.com
Subject: Bobs Farm Email 1 of 3
Attachments: 16032 TL Bobs Farm Aboriginal Cultural Heritage Assessment Rev 1 - Report.pdf

Categories: Filed

Hello Marilyn,

Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:

- Report
- Appendices 1 of 2
- Appendices 2 of 2

There will be three emails with attachments including this one with the report. The review period is set finish on the **11 October, 2019**. If you have any question please let me know. The recommended course of action at present will be an AHIP for test excavation sites with shell and the area in general. Consultation will be carried out in the future regarding excavation methodology. If people have a comment on storage locations please reply with any response to the ACHAR.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 9 October 2019 7:52 AM
Subject: Bobs Farm

Categories: Filed

Dear Registered Party,

Thanks you for your assistance with the project so far. This is a courtesy reminder that if you wish to comment on the draft ACHAR for Bobs Farm sand mine, the review period is set to end this Friday the 11th October.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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Cultural Heritage Assessment

Registration of Interest for Aboriginal people who hold cultural knowledge

PROJECT: Aboriginal Cultural Heritage Assessment at Bobs Farm Sand Mine

The purpose of community consultation with Aboriginal people is to assist the proposed applicant in the preparation of an Aboriginal Cultural Heritage Assessment and if required an Aboriginal Heritage Impact Permit. The outcome of the assessment is to assist the Director General of the Office of Environment and Heritage (OEH) in his or her consideration and determination of the application.

This is an invitation for Aboriginal people who hold cultural knowledge relevant to determining the significance of Aboriginal object(s) and/or place(s) in the area of the proposed project to register an interest in a process of community consultation with the proposed applicant regarding the proposed activity. As per the Aboriginal Cultural Heritage Requirements for Proponents (2010), interested parties are advised of the following;

- Unless otherwise specified, if you register your interest your details will be provided to OEH and the Local Aboriginal Land Council (LALC);
- The LALC's who hold cultural knowledge relevant to the proposed project area that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project are who wish to register, do so as an Aboriginal organisation not an individual; and
- Where an Aboriginal organisation representing Aboriginal people who hold cultural knowledge relevant to the proposed project area and that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project area who wish to register, must nominate a contact person and provide written confirmation and contact details of this person or persons.

PROPONENT: B Lander Tattersall Lander Pty Ltd PO Box Raymond Terrace NSW 2324

Registration from Aboriginal people and/or Aboriginal groups wishing to be consulted must be received by phone, email or in writing no later than: **Thursday 18th July 2019.**

To register your interest, please contact: **Jake Brown, Archaeologist**
Advitech Environmental, PO Box 207, Mayfield NSW 2304,
Email: jake.brown@advitech.com.au or Ph: 02 4924 5400

advitech environmental

Cultural Heritage Assessment
Registration of Interest for Aboriginal people who hold cultural knowledge

PROJECT: Aboriginal Cultural Heritage Assessment at Bobs Farm Sand Mine

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- Where an Aboriginal organisation representing Aboriginal people who hold cultural knowledge relevant to the proposed project area and that is relevant to determining the significance of Aboriginal objects and/or places within the proposed project area who wish to register, must nominate a contact person and provide written confirmation and contact details of this person or persons.

PROPONENT: B Lander Tattersall Lander Pty Ltd PO Box Raymond Terrace NSW 2324

Registration from Aboriginal people and/or Aboriginal groups wishing to be consulted must be received by phone, email or in writing no later than: **Thursday 18th July 2019.**

To register your interest, please contact: **Jake Brown, Archaeologist**
Advitech Environmental, PO Box 207, Mayfield NSW 2304,
Email: jake.brown@advitech.com.au or Ph: 02 4924 5400

advitech
environmental

TRANSECT RECORDING FORM

advitech environmental

Project ID:	Job No:	Folder No:
16032 Bolt Town Sandmine	J019 0088	16032

Recorder: Jake Brown **Date:** 26/8/19

Transect ID: T1

Tr. Length:	Tr. Width:	GPS Readings: Start:	End:
3499 m	5 – 20 m	T1 -32.7773012 152.00317833	T1 -32.77718139 150.6031377

Photo No: Appendix IV: T1 - 26 August

Plan/Drawing No: T1 GPS Tracks 26 August.

Bearing/Direction: -

Overall Visibility (%): 5%

Exposure (%): 5%

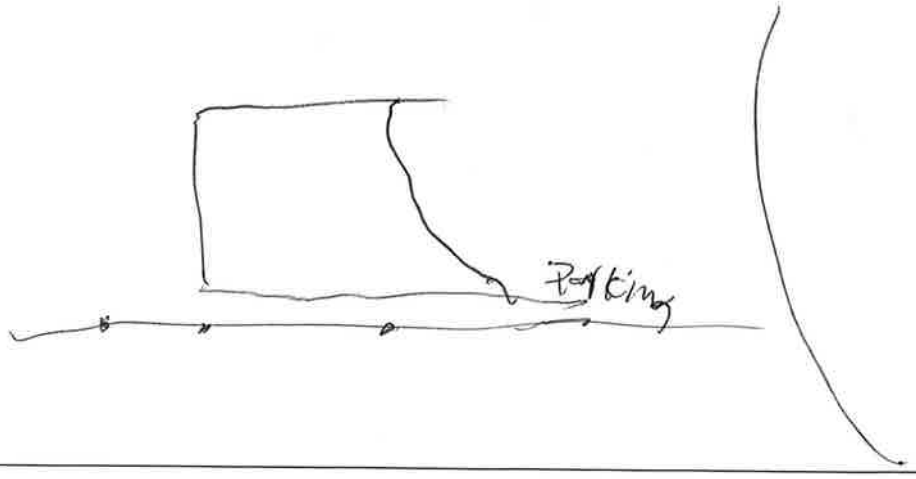
Vegetation: refer to Wildthing 2018 report (Biodiversity)

Land Use/Disturbance: Track clearing / industrial / agricultural / residential.

Landform(s): stabilised dune.

Soil: ~~Sand / loam~~ refer (AECOM) to 2015 Geomorphology report.

Site(s) Recorded:



Sketch:

See report map

Comments:

Potential scar tree. (tree? 1)

Possibly tree (tree? 2)

Habitat trees.

TRANSECT RECORDING FORM

advitech environmental

Project ID: Bolt farm Sandmine.	**Job No:** 30190088	**Folder No:** 16032

Recorder: Jake Brown

Date: 26/8/2019

Transect ID: T2

GPS Readings: Start: -32.7772312 152.0015734

End: -32.7735061 152.0045564

Tr. Length: 1109m

Tr. Width: 5-20m

Photo No: Appendix IV: T2-26 Aug 19.

Bearing/Direction: -

Plan/Drawing No: T2 GPS Tracks

Overall Visibility (%): 50%

Exposure (%): 5%

Vegetation: refer to wildthing 2018 Biodiversity report.

Land Use/Disturbance: ~~None~~ agriculture / track clearing

Landform(s): Stabilised dune

Soil: ~~sand~~ loam. refer to Aecom 2015 Geomorphology report.

Site(s) Recorded:

~~*~~ Shell (shell on GPS) two small bits from exposed bank. (Photo 5)

~~*~~ shell (shell 0) Photo exposed bank.

~~*~~ Bone/shell (GPS). flat

~~*~~ cockle shell.

Sketch:

See report map

Comments:

- Highly disturbed. pushed up material around edge.
- tracks less used.

TRANSECT RECORDING FORM

advitech environmental

Project ID: Bolt farm sand mine	**Job No:** Jo 190088	**Folder No:** 16032

Recorder: Gabe Brown **Date:** 26/8/19

Transect ID: T3

GPS Readings: Start:	**End:**
-32.7735064	-32.7772022
152.0045564	152.0031830

Tr. Length: 1204m **Tr. Width:** 15m.

Photo No: Appendix IV: T3

Bearing/Direction: –

Plan/Drawing No: T3 GPS tracks 26 August

Overall Visibility (%): 5% - 20%

Exposure (%): 5% - 20%

Vegetation: refer to wildthing 2018 report. (Biodiversity)

Land Use/Disturbance: Agriculture. / fencing. / land clearing.

Landform(s): stabilised dune / cleared orchard.

Soil: Sand loam refer to (AECOM) 2015 Geomorphology report

Site(s) Recorded:

- diffused shell / lone scatter along property edge. ~Approx 60m long x 10m wide. Poorly recorded to land clearing? possible exploration site.
- Lone shell along T3.

Sketch:

See report map.

Comments:

- inside house fence shell was present, possible excavation.

TRANSECT RECORDING FORM

advitech environmental

Project ID:	Job No:	Folder No:
Bells Farm Sand mine	Jol+0088	16032.

Recorder:	Date:
Jake Brown	26/8/19

Transect ID:	GPS Readings: Start:	End:
T4	-32.77288 83 152.00543 10	-32.77733 41 152.00344 09

Tr. Length:	Tr. Width:
1055 m	15m

Photo No:	Bearing/Direction:
Appendix IV: T4 26 August.	—

Plan/Drawing No:
T4 GPS Tracks 26 August

Overall Visibility (%):	Exposure (%):
5%	5%

Vegetation:	Land Use/Disturbance:
Refer to wildthing 2018 Bio diversity report.	tracks (agriculture

Landform(s):
stabilised dune

Soil:
Refer to 2015 AECom Geomorphology report

Site(s) Recorded:

- shell on disturbed tracks
- tracks close to boundary.
- denser vegetation.

Sketch:

see report map

Comments:

TRANSECT RECORDING FORM

advitech environmental

Project ID: Bolt farm/sand mine	**Job No:** J0190088	**Folder No:** 16032.

Recorder: Jake Brown	**Date:** 26/8/19

Transect ID: T5		**GPS Readings: Start:** -32.7731587 152.0042954	**End:** -32.7732420 152.0037584
Tr. Length: 324m	**Tr. Width:** up to 15m		
Photo No: Appendix iv: T5 26 August		**Bearing/Direction:** —	
Plan/Drawing No: T5 GPS Tracks 26 August.			
Overall Visibility (%): 5%		**Exposure (%):** 5%	
Vegetation: Refer to wildthing 2018 Biodiversity report		**Land Use/Disturbance:** Agriculture/ track clearing.	

Landform(s):

Stabilised dune.

Soil:

~~Sand/ loam~~. refer to AECOM Geomorphology report.

Site(s) Recorded:

Dense bush.

Sketch:

See report map

Comments:

TRANSECT RECORDING FORM

advitech environmental

Project ID: Bob Farm Sand mine	**Job No:** 50190088	**Folder No:** 16072.

Recorder: Jake Brown **Date:** 27/8/19

Transect ID: T6

GPS Readings: Start: -32.77282800 152.00680501 **End:** -32.77283141 152.00680231

Tr. Length: 824m **Tr. Width:** 5-10m.

Photo No: Appendix IV: T6 - 27 August

Bearing/Direction: —

Plan/Drawing No: T8 GPS Tracks 28 August

Overall Visibility (%): 5%

Exposure (%): 5%

Vegetation: Refer to wildthing 2018 Bio diversity report.

Land Use/Disturbance: agriculture / tracks, T8

Landform(s): stabilised sand dune

Soil: ~~Sand/loam~~. Refer to 2015 AECOM Geomorphology report.

Site(s) Recorded:

No finds.

Lomandra (mat rush) cultivated and used for food and construction of items/weaving

Sketch:

See report map

Comments:

TRANSECT RECORDING FORM

advitech environmental

Project ID:	Job No:	Folder No:
Bolt farm Sandmine	5019008B	16032

Recorder: Jake Brown **Date:** 27/8/19

Transect ID: T7

GPS Readings: Start:	End:
-32.7727589	-32.7771863
152.0076948	152.0032378

Tr. Length: 1657m **Tr. Width:** 2-5m

Photo No: Appendix IV: T7-27 August

Bearing/Direction: —

Plan/Drawing No: T7 GPS Tracks 27 August.

Overall Visibility (%): 0% - 5%

Exposure (%): 0% - 5%

Vegetation: Refer to wildthing 2018 Biodiversity Report.

Land Use/Disturbance: Road disturbed Road reserve.

Landform(s): disturbed road, Table drain.

Soil: Refer to 2015 AECOM Geomorphology report.

Site(s) Recorded: No finds.

Sketch:

see report map

Comments:

- Visibility extremely low.
- Visit when clearing occurs could be beneficial to site discovery.
- Native passionfruit in road reserve.

TRANSECT RECORDING FORM

advitech environmental

Project ID: BCS Porm Sand mine	**Job No:** 5019 0088	**Folder No:** 16032

Recorder: Jake Brown **Date:** 27/8/2019

Transect ID: T8

GPS Readings: Start: -32.7772313 152.003 1022

End: -32.7771923 152.00 30619

Tr. Length: 2780m **Tr. Width:** 5-15m.

Photo No: Appendix IV: T8 - 27 August

Bearing/Direction: —

Plan/Drawing No: T8 GPS Tracks 27 August.

Overall Visibility (%): 0 - 5%

Exposure (%): 0 - 5%

Vegetation: Refer to wildthing 2018 Biodiversity report.

Land Use/Disturbance: Low disturbance except for tracks.

Landform(s): Stabilised Sand dune.

Soil: Refer to 2015 AECOM report (Geomorphology).

Site(s) Recorded: No finds.

Sketch:

see report map

Comments:

- Sample methodology.
- dense vegetation.

TRANSECT RECORDING FORM

advitech environmental

Project ID: BGS Farm Sand mine	**Job No:** 5019088	**Folder No:** 16032

Recorder: Jake Brown. **Date:** 27/8/2019

Transect ID: T9

GPS Readings: Start: -32.7771652 152.0030335 **End:** -32.7771686 152.0030327

Tr. Length: 1563m **Tr. Width:**

Photo No: Appendix IV: T9 - 27 August

Bearing/Direction: —

Plan/Drawing No: T9 GPS Tracks 27 August

Overall Visibility (%): 0-5%

Exposure (%): 0-5%

Vegetation: Refer to wildthing 2018 Biodiversity report.

Land Use/Disturbance: Trails / agriculture

Landform(s): Sand dune stabilised

Soil: Refer to 2015 AECom Geomorphology report.

Site(s) Recorded: No finds

Sketch:

See report map

Comments:

TRANSECT RECORDING FORM

advitech environmental

Project ID:	Job No:	Folder No:
Bobs farm sand mine	J0190088	16072

Recorder:	Date:
Jake Brown.	27/8/19

Transect ID:	GPS Readings: Start:	End:
Top Block	-32.0075809 152.0075809	-32.7723980 152.0076564

Tr. Length:	Tr. Width:
1631m	10-15m

Photo No: Appendix IV: Top Block 27 August

Bearing/Direction:

Plan/Drawing No: Top Block GPS tracks 27 August.

Overall Visibility (%): 20%

Exposure (%): 20%

Vegetation: Refer to wildthing 2018 Bio diversity report.

Land Use/Disturbance: Agricultural (cattle), tracks, rep id sentials

Landform(s): Stabilised Sand dune

Soil: ~~Sand~~ / Loam. refer to ADCOM 2015 Geomorphology Report.

Site(s) Recorded:

- 3 trees with possible marks. deteriorated trees (tree 1-3 GPS)
- 1 Not scar tree (mark to deep)
- evidence of fresh shell, predominantly oyster.
- Some older shell evident (whelk, cockle)

Sketch:

See report map

Comments:

FORMS

Advitech Environmental Pty. Ltd. would like to clearly state that, should you wish to provide feedback in another form, you are encouraged to do so. You are under no obligation to complete the attached forms which are as follows:-

- Registration of Cultural Knowledge Holders
- Cultural Significance
- Comments on proposed methodology

However, should you wish to use this forms, please complete, sign and return to Advitech by 19 August (at the very latest);

Postal address:
Jake Brown
Advitech
P O Box 207
Mayfield NSW 2304

Email: jake.brown@advitech.com.au

Fax: 02 4967 3772

REGISTRATION OF CULTURAL KNOWLEDGE HOLDER

Advitech and the proponent would like to facilitate a process whereby all registered Aboriginal parties are provided the opportunity to contribute to culturally appropriate information gathering, provide information that will enable the cultural significance of Aboriginal sites/places on the project area to be determined, and have input into the development of any cultural heritage management options. To enable this to occur, it is necessary to consult with the cultural knowledge holder(s).

To this end, as per the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents (2010), you are required to provide details of the individual(s) who hold cultural knowledge (according to traditional lore) relevant to the project area. If your group has no knowledge holders, this is important information too.

Please fill in the following information for cultural knowledge holder(s). If there are more than three in your organisation please feel free to attach another sheet. If there are no knowledge holders in your group please send back blank.

Name: Dave Feeney

Address: 1/7 Mustons Rd, Karuah

Phone: _____ **Mobile:** 0421114853

Fax: _____ **E-mail:** karuahindigenous@outlook.com.

Name: _____

Address: _____

Phone: _____ **Mobile:** _____

Fax: _____ **E-mail:** _____

Name: _____

Address: _____

Phone: _____ **Mobile:** _____

Fax: _____ **E-mail:** _____

COMMENTS ON PROPOSED METHODOLOGY

I, Dave Feeney (*please insert your name*) of Karuah Indigenous Corporation (*please insert the name of your group*), **agrees to the methodology** outlined by Advitech in relation to the proposed assessment at Bobs Farm sand mine.

Additional comments:

Signed: [signature] Date: 19/7/19.

Position within organisation: SNR Cultural Officer

I, _____ (*please insert your name*) of _____ (*please insert the name of your group*), **does not agree to the methodology** outlined by Advitech in relation to the proposed Project at Bobs Farm sand mine for the following reasons (*please explain your reasons for disagreeing*):

I would like to suggest the following (please provide your reasoning):

Signed: _____ Date: _____

Position within organisation: _____

CULTURAL SIGNIFICANCE

As per the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), the proponent seeks information on the following:

1) **Are there Aboriginal objects of cultural value in the proposed project area?**

YES

2) **Are there Aboriginal places of cultural value to the Aboriginal people in the area of the proposed project? This may include places of social, spiritual and cultural value, historic places with cultural significance, and potential places/areas of historic, social, spiritual and/or cultural significance that may be either pre-contact, post contact or contemporary in age.**

YES

3) **Is there any other cultural information relevant to the proposed project area?**

YES - Let you know on the day.

4) **Advitech and the proponent would like to develop and implement appropriate protocols for sourcing and holding cultural information. Please provide your preferred method of providing detailed information on the above (e.g. written, verbal, this form) and any restrictions you would like to place on your information.**

Verbal at this stage.

Jake Brown

From: Jake Brown
Sent: Friday, 19 July 2019 9:17 AM
Subject: Bobs Farm Methodology
Attachments: Bobs Farm ACHA Information Forms.docx; Bobs Farm ACHA Information for Community Members.pdf

Dear Registered Party,

Please find attached the methodology for the Bobs Farm ACHA. The end of the review period is set for the **19 August, 2019**. If you have any questions or comments about the project please let me know.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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- Registration of Cultural Knowledge Holders
- Cultural Significance
- Comments on proposed methodology

However, should you wish to use this forms, please complete, sign and return to Advitech by 19 August (at the very latest);

Postal address:
Jake Brown
Advitech
P O Box 207
Mayfield NSW 2304

Email: jake.brown@advitech.com.au

Fax: 02 4967 3772

REGISTRATION OF CULTURAL KNOWLEDGE HOLDER

Advitech and the proponent would like to facilitate a process whereby all registered Aboriginal parties are provided the opportunity to contribute to culturally appropriate information gathering, provide information that will enable the cultural significance of Aboriginal sites/places on the project area to be determined, and have input into the development of any cultural heritage management options. To enable this to occur, it is necessary to consult with the cultural knowledge holder(s).

To this end, as per the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents (2010), you are required to provide details of the individual(s) who hold cultural knowledge (according to traditional lore) relevant to the project area. If your group has no knowledge holders, this is important information too.

Please fill in the following information for cultural knowledge holder(s). If there are more than three in your organisation please feel free to attach another sheet. If there are no knowledge holders in your group please send back blank.

Name: CANDY TOWERS

Address: 36 Avon Street Mayfield NSW 2304

Phone:_____ Mobile: 0412 475 362

Fax:_____ E-mail: worimitoc@hotmail.com

Name: Debbie Dates

Address: 2/32 Young Street Carrington NSW 2294

Phone:_____ Mobile: 0401 072 860

Fax:_____ E-mail: worimitoc@hotmail.com

Name:_____

Address:_____

Phone:_____ Mobile:_____

Fax:_____ E-mail:_____

CULTURAL SIGNIFICANCE

As per the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), the proponent seeks information on the following:

1) **Are there Aboriginal <u>objects</u> of cultural value in the proposed project area?**

   Yes, there will be Aboriginal Objects located in the within the area as the area was culturally used traditionally by the Worimi Nation.

2) **Are there Aboriginal <u>places</u> of cultural value to the Aboriginal people in the area of the proposed project? This may include places of social, spiritual and cultural value, historic places with cultural significance, and potential places/areas of historic, social, spiritual and/or cultural significance that may be either pre-contact, post contact or contemporary in age.**

   The area holds cultural and spiritual value to the Worimi Nation as this area was used for traditional coroborees.

3) **Is there any other cultural information relevant to the proposed project area?**

4) **Advitech and the proponent would like to develop and implement appropriate protocols for sourcing and holding cultural information. Please provide your preferred method of providing detailed information on the above (e.g. written, verbal, this form) and any restrictions you would like to place on your information.**

COMMENTS ON PROPOSED METHODOLOGY

I, Candy Towers of Worimi Traditional Owners Indigenous Corporation, **agrees to the methodology** outlined by Advitech in relation to the proposed assessment at Bobs Farm sand mine.

Additional comments:

_____

_____

_____

_____

Signed: *Candy Towers* Date: 23/07/2019

Position within organisation: Worimi Custodian and Member

I, _____ (*please insert your name*) of _____ (*please insert the name of your group*), **does not agree to the methodology** outlined by Advitech in relation to the proposed Project at Bobs Farm sand mine for the following reasons (*please explain your reasons for disagreeing):*

_____

_____

_____

I would like to suggest the following (please provide your reasoning):_____

_____

_____

Signed: _____ Date: _____

Position within organisation: _____

MUR - ROO - MA
INCORPORATED

9 Vardon Road Fern Bay 2295 NSW
49281910
0402827482

ABN: 97 807 719 484

Wednesday 9th of October, 2019

Advitech Environmental
P O Box 207
MAYFIELD NSW 2304
Jake.brown@advitech.com.au

Att: Jake Brown

Re: Proposed Sand Mine at Bobs Farm – Draft ACHAR response

To Jake,

Murrooma Incorporated has read and fully understands the draft Aboriginal Cultural Heritage and Archaeological Assessment report for the proposed state significant sand mine at Bobs Farm.

We agree with all aspects of this report and have viewed the draft assessment strategies including the recommendations of sub surface test excavations and a potential CHMP that will be created in conjunction with our RAP groups. We currently have other Cultural Heritage Management Plans that have been put in place with all other sand quarries within the Worimi area and this may be something we can explore further with the proponent.

Although outlined in the report archaeologically the potential for heritage material may be low however Murrooma would like to advise on the cultural sensitivity of this area and there are many places within this area that have significant cultural value to Worimi people and other areas that are in close proximity to the proposed project. These places of social, spiritual and cultural value are traditional areas with direct linkage to our ancestors and storylines. This area is within a travel route with possible camps and in close proximity to a large meeting/ceremonial site.

The recommendations and methodologies within this draft ACHAR report meet our requirements as Traditional knowledge holders of this area and maintain the protection and best options for our local Aboriginal sites.

Yours Truly
Bec Young- Operations Manager
Anthony Anderson- CEO

Jake Brown

From: WIDESCOPE . <widescope.group@live.com>
Sent: Friday, 11 October 2019 12:56 PM
To: Jake Brown
Subject: RE: Bobs Farm

Categories: Filed

Hi,

Thank you for providing me with the daft ACHAR for Bobs Farm sand mine,

I have reviewed and support the recommendations out lined in the daft Aboriginal Cultural Heritage Assessment Report(ACHAR)

Regards
Steven Hickey

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Wednesday, October 9, 2019 7:52:00 AM
Subject: Bobs Farm

Dear Registered Party,

Thanks you for your assistance with the project so far. This is a courtesy reminder that if you wish to comment on the draft ACHAR for Bobs Farm sand mine, the review period is set to end this Friday the 11th October.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

Jake Brown

From: Tamara Towers <worimiacs@gmail.com>
Sent: Wednesday, 9 October 2019 1:50 PM
To: Jake Brown
Subject: Re: Bobs Farm Email 1 of 3

Categories: Filed

Hi Jake,

On behalf of Worimi Aboriginal Cultural Services,
I accept and agree with the ACHAR for Bobs Farm.

Thanks Jake looking forward to hearing from you soon .

Warm Regards
Tamara Towers

On Thu, 12 Sep 2019 at 9:36 AM, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello Tamara,
>
> Thank you for your cooperation and insight into the project so far. The draft ACHAR is a large file (approx. 30mb) so I have divided the report and appendices into:
>
> - Report
> - Appendices 1 of 2
> - Appendices 2 of 2
>
> There will be three emails with attachments including this one with the report. The review period is set finish on the **11 October, 2019**. If you have any question please let me know. The recommended course of action at present will be an AHIP for test excavation sites with shell and the area in general. Consultation will be carried out in the future regarding excavation methodology. If people have a comment on storage locations please reply with any response to the ACHAR.
>
> Regards,
>
> Jake
>
> **Jake Brown** Archaeologist
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Jake Brown

From: Tamara Towers <worimiacs@gmail.com>
Sent: Wednesday, 13 November 2019 12:54 PM
To: Jake Brown
Subject: Re: Bobs Farm

Categories: Filed

Hi Jake,

On behalf of Worimi Aboriginal Cultural Services we accept and agree with the ACHA and Methodology for Bobs Farm sand mine.

This area is culturally significant to my people as we have continued to traditionally utilise the area and surrounding areas.

Thanks Jake looking forward to hearing from you soon.

Regards
Tamara Towers

On Wed, 9 Oct 2019 at 7:52 am, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Dear Registered Party,
>
> Thanks you for your assistance with the project so far. This is a courtesy reminder that if you wish to comment on the draft ACHAR for Bobs Farm sand mine, the review period is set to end this Friday the 11th October.
>
> Regards,
>
> Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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APPENDIX III: Information for Community Members

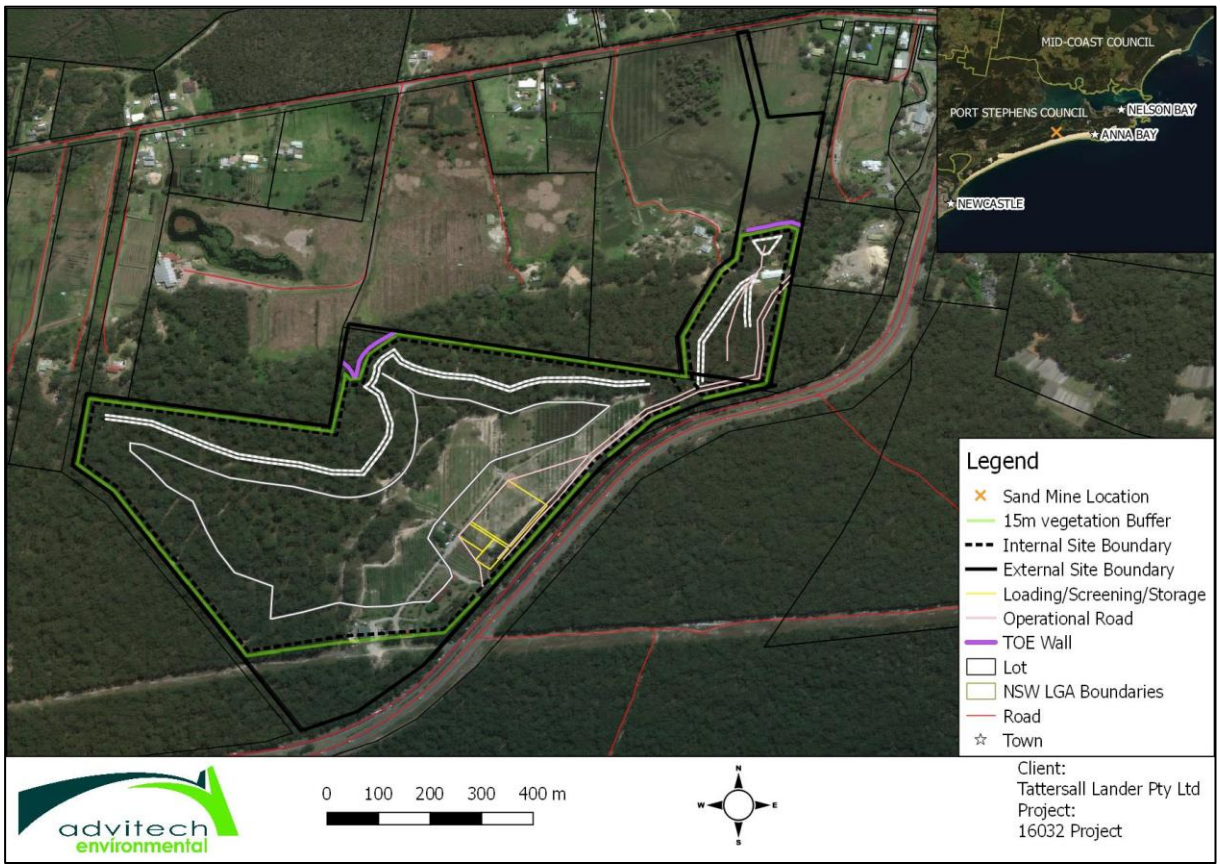
INFORMATION FOR COMMUNITY MEMBERS

PROPOSED BOBS FARM SAND MINE

Advitech Environmental (Advitech Pty Limited) has been contracted to conduct an Aboriginal Cultural Heritage Impact Assessment. The assessment may also result in an application for an Aboriginal Heritage Impact Permit (AHIP) under Part 6 of the *National Parks and Wildlife Act 1974* should any Aboriginal Objects or Places be located within the proposed impact area.

The Bobs Farm sand mine is approximately 27km north east of Newcastle, and 14km west of Nelson Bay town centre. The approximate area of the site is 60 hectares, with 42.6 hectares comprising the proposed extraction areas. The project will involve the establishment of a sand quarry to extract sand products providing applications for landscape, sports field top dressing, construction, fracking sand, bulk earthworks, bulk filling and glass manufacturing. Estimated yearly production is 750,000 tonnes per year, with a total potential excavatable resource of 10 million tonnes.

In 2015 an Aboriginal Cultural Heritage Assessment report was finalised with key findings including shell. Due to the extended time frame from the original survey OEH is recommending another Aboriginal Cultural Heritage Assessment be conducted. The original report and OEH recommendations can be found on the Department of Planning Bobs Farm Sand Mine portal. The proposed area is shown in the map below.



Timeline

Stages	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Stage 1: Consultation	X	X	X	X	X	X	X	X	X	X	X	X
Stage 2: Survey							X					
Stage 3: Reporting					X	X	X	X				
Stage 4: Finalisation											X	X

Survey Methodology

The survey methodology which will be conducted at site the Week of **26 August 2019** will include a predictive model, proposed assessment survey and recording procedure.

Predictive model

Using the predictive modelling of the previous assessment of the site by AECOM and other reports from assessments of Nelson Bay Road and surrounding area:

- Site locations may have shifted from original context due to erosion/accumulation of dunes;
- Previous archaeological studies may not represent the sites/landform context due to classification of landforms, assessment sites not evenly disturbed and level of disturbance;
- The landscape and landforms of the area proposed for impact. The results of contextual archaeological studies indicate a preference for sites within 50 metres of reliable water sources or a confluence of water sources, on ridge lines, spurs and on crests;
- Sites are not usually found in the interbarrier depression but rather on the inner and outer barriers;
- Previous surveys indicate artefact scatters, isolated finds, scarred trees, burials and ceremonial sites could be found in the inner and outer barriers/sand dunes;
- The lack of archaeological reports published or available for the area give an inaccurate indication of the potential for Aboriginal sites to be found. While existing registered AHIMS sites are located in close proximity to the disturbance footprint, there is potential for other previously recorded but not registered sites to exist in the area as well as unrecorded sites;
- Aboriginal burials have been located along Nelson Bay Road in previous assessments, this may result in a possibility of Aboriginal burials on site;
- Disturbance may alter the context of a site and change the possibility of find likelihoods; and
- Previous 2014 survey found shell in disturbed sections of the site (tracks), this may represent accumulation of material covering sites and suggest visibility could pose an issue.

In summary, the study area provides some suitable resources and landscape features (elevated positions, distance to semi-permanent water) to allow for temporary or transient occupation of the site. While it is probable that the area hosted long term community base camps or transitory locations, it is reasonable to infer that smaller camping or nuclear family base camps may have been established in

the area. The observation of Aboriginal sites in the proposed footprint is in alignment with what is to be expected of an area with these environmental features: the sites identified during previous surveys include shell middens.

As a result of the survey conducted over the area, the predictive model of site locations can be reassessed for the investigation area:

- Evidence in the local area was observed to support the likelihood of burials; and
- Due to the presence of shell scatters, it can be assumed that there remains a moderate potential for additional isolated sites and scatters to be identified in the broader area.

Survey

The proposed survey is to further assess the development area with the assistance of the local Aboriginal community. This survey aims to cover additional area to that covered in the 2014 field assessment.

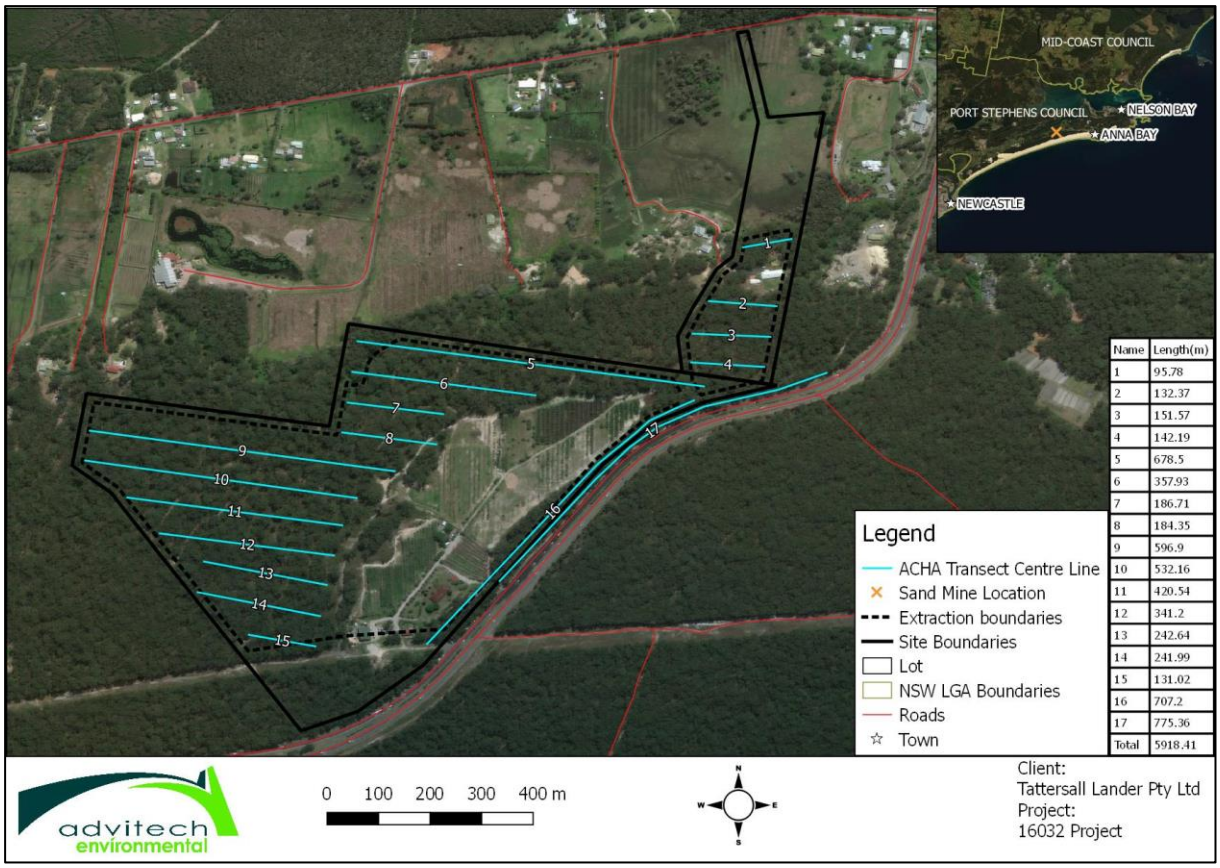
The proposed method of field assessment is a pedestrian survey. The pedestrian survey will be conducted by five people, comprising two representatives from Advitech and three community members. Transects will be planned with a proposed spacing for each individual to cover 5m – 10m depending on vegetation density. This method was decided upon based on the previous assessment by AECOM of the proposed Bobs Farm sand mine in 2014 that determined the area has moderate heritage values. OEH did not agree with the previous assessment and recommended further examination. The study area consists of land ranging to 30m above sea level.

The survey will be conducted using a judgement sampling strategy. The judgement sampling strategy (Burke and Smith 2004, p. 65-69) was chosen to allow for the data from previous surveys to be used and plan a systematic survey for this assessment. The proposed survey route is recorded in the **map on page 5** and **Table 1**. **The map of page 5** shows the centre lines for transects aiming for four people covering 10m each (5m either side of a person). Limitations when surveying the extraction area may include dense vegetation on the northern side of the central ridge and disturbance over the site. The extraction area will be surveyed firstly in a north/south direction; the stockpile area will also be surveyed in a north/south direction. Spot checks and vehicle survey will follow planned and existing haul routes. These will be recorded with a GPS. There is a planned 50m spacing between the transects except where the property boundary alters available space. The transects are planned to be 50m in width (based off a field team of 5 people). Transect 17 is in the road reserve to aid with the construction of access. The total length of the 17 transects is 5918.41m (5.9km).

Table 1: Pedestrian transect details

Transect ID	Length (m)	Start / End Point	Latitude	Longitude
1	95.78	1	-32.77006679	152.0095059
		2	-32.77021547	152.0086584
2	132.37	3	-32.77124138	152.0092457
		4	-32.77115217	152.0080600
3	151.57	5	-32.77177663	152.0091379
		6	-32.77172088	152.0077775
4	142.19	7	-32.77230073	152.0090301

Transect ID	Length (m)	Start / End Point	Latitude	Longitude
		8	-32.77222268	152.0077552
5	678.5	9	-32.77264069	152.0079786
		10	-32.77185267	152.0019347
6	357.93	11	-32.77238793	152.0018455
		12	-32.77279680	152.0050347
7	186.71	13	-32.77312390	152.0034290
		14	-32.77292318	152.0017637
8	184.35	15	-32.77344357	152.0016671
		16	-32.77365172	152.0033100
9	596.9	17	-32.77412007	152.0025815
		18	-32.77341383	151.9972661
10	532.16	19	-32.77393422	151.9971843
		20	-32.77458842	152.0019198
11	420.54	21	-32.77506420	152.0016671
		22	-32.77458098	151.9979203
12	341.2	23	-32.77559202	152.0015258
		24	-32.77520545	151.9984853
13	242.64	25	-32.77569610	151.9992584
		26	-32.77610497	152.0013994
14	241.64	27	-32.77664766	152.0012805
		28	-32.77623135	151.9991469
15	131.02	29	-32.77697476	152.0000390
		30	-32.77717548	152.0011987
16	707.2	31	-32.77303283	152.0074639
		32	-32.7771311	152.0031501
17	775.36	33	-32.77603762	152.0044142
		34	-32.7724045	152.0101187
Total length of Transects = 5918.41m				



Recording will be conducted in the following methods adapted from Burke and Smith (2004):

Table 2: Examples of recording

Item	Recording Action
Isolated Artefact/s (up to 5 within 1m²)	▪ Photos of multiple sides with scale card (e.g. flake ventral and dorsal) ▪ GPS location ▪ Field notes including measurements, material and artefact type
Open scatter (5+artefacts within 1m²)	▪ Photos of individual artefacts, extent of scatter ▪ GPS location ▪ Field notes including measurements, number of artefacts, material and artefacts type
Scar tree	▪ Photos of scar and tree ▪ GPS location ▪ Field notes including measurements, species, direction and condition of scar/s
Shell and shell middens	▪ Photos of individual items, area (extent) ▪ GPS location ▪ Field notes including measurements, number of items and material

Item	Recording Action
Stone arrangement	▪ Photos of individual stones and pattern ▪ GPS location ▪ Sketch of pattern ▪ Field notes including type and size of stone

Records including photos of landscape and a GPS trail will be kept for the survey as well as field notes which may include details of any finds.

Safety measures and survey protocol

The transects once confirmed through community consultation will be undertaken by six field personal. The field personal will start at approximately 8:30am. If field personal are not on site within 15 minutes of the start time it will be assumed non-attendance for the day and the survey will start. Community members will be expected to provide in advance proof of insurances:

- Public liability;
- Workers compensation;
- Public indemnity; and
- Car insurance for the vehicle used for transport to and from site.

Given the terrain community members that commit to the survey will be expected to have reasonable fitness and fully participate in the survey. Terrain will be undulating, steep in sections and ground visibility may be limited in patches due to vegetation, meaning hazards may be presents. Other safety factors that may be present include environmental factors (weather extremes, snakes). The survey is expected to take two days or less with approximately 3km a day being covered. Community members will sign an attendance log when starting and finishing for the day, as well as transect recording forms to indicate people agree with the results.

Consultation

- Consultation with registered Aboriginal parties involves obtaining the views of, and information from, Aboriginal parties and reporting on these. It should not to be confused with other field assessment processes involved in preparing a proposal and an application.
- Consultation does not mean the employment of Aboriginal people to assist in field assessment and/or site monitoring;
- The proponent is not obliged to employ those Aboriginal people registered for consultation. Consultation as per these requirements will continue irrespective of potential or actual employment opportunities (i.e. pay disputes) for Aboriginal people; and
- A daily fee for service will be provided to registered Aboriginal participants of the survey

Forms

You will find a number of forms attached for your convenience. However, you are most welcome to provide the information required in any form that you would like. Please ensure that answers to all the questions are returned to Advitech Environmental no later than **19 August, 2019.**

Forms attached:

- Register of cultural knowledge holder;
- Cultural significance; and
- Comments on proposed methodology.

Advitech would welcome community feedback and any additional cultural information that could help inform the assessment process including the survey methodology and potential AHIPS application.

Thank you for your cooperation in this process,

Please contact Jake Brown either via email or phone (details below) no later than **19 August, 2019**.

Regards,

Jake Brown

Email – jake.brown@advitech.com.au
Phone – 02 4924 5400

FORMS

Advitech Environmental Pty. Ltd. would like to clearly state that, should you wish to provide feedback in another form, you are encouraged to do so. You are under no obligation to complete the attached forms which are as follows:-

- Registration of Cultural Knowledge Holders
- Cultural Significance
- Comments on proposed methodology

However, should you wish to use this forms, please complete, sign and return to Advitech by 19 August (at the very latest);

Postal address:
Jake Brown
Advitech
P O Box 207
Mayfield NSW 2304

Email: jake.brown@advitech.com.au

Fax: 02 4967 3772

REGISTRATION OF CULTURAL KNOWLEDGE HOLDER

Advitech and the proponent would like to facilitate a process whereby all registered Aboriginal parties are provided the opportunity to contribute to culturally appropriate information gathering, provide information that will enable the cultural significance of Aboriginal sites/places on the project area to be determined, and have input into the development of any cultural heritage management options. To enable this to occur, it is necessary to consult with the cultural knowledge holder(s).

To this end, as per the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents (2010), you are required to provide details of the individual(s) who hold cultural knowledge (according to traditional lore) relevant to the project area. If your group has no knowledge holders, this is important information too.

Please fill in the following information for cultural knowledge holder(s). If there are more than three in your organisation please feel free to attach another sheet. If there are no knowledge holders in your group please send back blank.

Name:_____

Address:_____

Phone:_____ **Mobile:**_____

Fax:_____ **E-mail:**_____

Name:_____

Address:_____

Phone:_____ **Mobile:**_____

Fax:_____ **E-mail:**_____

Name:_____

Address:_____

Phone:_____ **Mobile:**_____

Fax:_____ **E-mail:**_____

CULTURAL SIGNIFICANCE

As per the OEH *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010), the proponent seeks information on the following:

1) **Are there Aboriginal <u>objects</u> of cultural value in the proposed project area?**

_____
_____
_____
_____
_____

2) **Are there Aboriginal <u>places</u> of cultural value to the Aboriginal people in the area of the proposed project? This may include places of social, spiritual and cultural value, historic places with cultural significance, and potential places/areas of historic, social, spiritual and/or cultural significance that may be either pre-contact, post contact or contemporary in age.**

_____
_____
_____
_____
_____

3) **Is there any other cultural information relevant to the proposed project area?**

_____
_____
_____
_____
_____

4) **Advitech and the proponent would like to develop and implement appropriate protocols for sourcing and holding cultural information. Please provide your preferred method of providing detailed information on the above (e.g. written, verbal, this form) and any restrictions you would like to place on your information.**

_____
_____
_____
_____
_____
_____

COMMENTS ON PROPOSED METHODOLOGY

I, _____ (*please insert your name*) of _____ (*please insert the name of your group*), **agrees to the methodology** outlined by Advitech in relation to the proposed assessment at Bobs Farm sand mine.

Additional comments:

_____

_____

_____

_____

Signed: _____ Date: _____

Position within organisation: _____

I, _____ (*please insert your name*) of _____ (*please insert the name of your group*), **does not agree to the methodology** outlined by Advitech in relation to the proposed Project at Bobs Farm sand mine for the following reasons (*please explain your reasons for disagreeing):*

_____

_____

_____

I would like to suggest the following (please provide your reasoning):_____

_____

_____

Signed: _____ Date: _____

Position within organisation: _____

APPENDIX IV: Site Photographs

T1 - 26 August, 2019













T2 - 26 August 2019













T3 - 26 August, 2019













T4 - 26 August, 2019













T5 - 26 August, 2019





T6 - 27 August, 2019









T7 - 27 August, 2019













T8 - 27 August, 2019









T9 - August, 2019





Top Block – 27 August, 2019

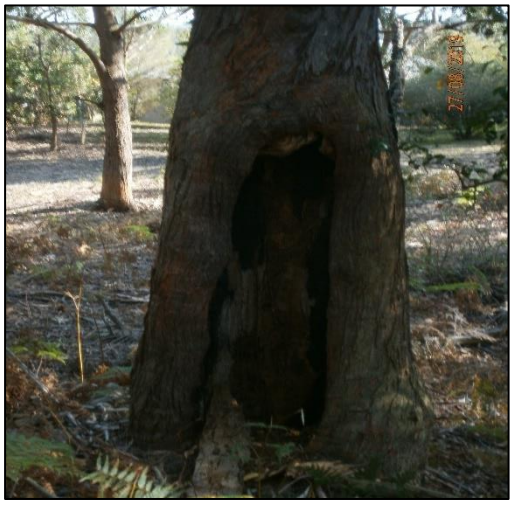












APPENDIX V: Flora and Fauna Vulnerable Species Guide with Extract from Wildthing 2018 Bobs Farm Biodiversity EIS Report

Guide to Endangered species that could be impacted from Archaeological work.

The following threatened or rare species were identified in the 2018 Wildthing biodiversity assessment report for the Proposed Bobs Farm sand mine. This guide provides photographs of the species as well as lists from the Wildthing biodiversity report. This is to maximise awareness of any threatened or rare species that could potentially be impacted from Archaeological studies.

Species with a photographic reference were deemed by the Wildthing biodiversity report to have a low to high likelihood of occurring (unlikely were excluded). Only flora species have been added to the photographic list, due to a moderate probability that a heritage assessment would be more likely yo impact upon flora species than fauna. The species list from the 2018 Wildthing biodiversity assessment report has been included in this document.

Red Hermit Orchid 	Leafless Tongue orchid 
Tomaree Doubletail 	Newcastle Doubletail 

Eastern Underground Orchid 	Taree Rustyhood 
Netted Bottle Brush 	Drooping Red Gum 

Biconvex Paperbark 	Grove's Paperbark 
Magenta Lillypilly 	Noah's False Chickweed 

Maundia Triglochinoides	zannichellia palustris
	

Table 10: Habitat Assessment for Significant Species

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Corybas dowlingii Red Helmet Orchid	TSC Act-E	Forms colonies and typically grows in gullies in tall open forest on well-drained gravelly soil at elevations of 10-200m. Is restricted to New South Wales where it is currently known from 4 localities including Port Stephens (2 localities), Bulahdelah and Freemans Waterhole south of Newcastle. A population is known from Stoney Ridge Reserve on Soldiers Point on the southern shore of Port Stephens.	**Low** No preferred habitat in the form of areas of well drained gravelly soil was present within the sandy study area.	**Yes**
Cryptostylis hunteriana Leafless Tongue Orchid	TSC Act-E EPBC Act-E ROTAP – 3VC-	This species is a saprophyte, which grows in small, localised colonies on flat plains close to the coast. This species has also been recorded in mountainous areas growing in moist depressions as well as in swampy habitats.	**Low** Suitable habitat was considered to be present within the study area.	**Yes**
Diuris arenaria Tomaree Doubletail	TSC Act – E ROTAP – Recommend 2VC	Coastal heath, Dry Sclerophyll Forest with patches of *Themeda australis* (Kangaroo Grass) on sandy flats (Bishop, 1996). This species is only known from the Tomaree Peninsula on the southern side of Port Stephens.	**High-Recorded within the study area.** Suitable habitat was considered to be present over the majority of the study area.	**Yes**
Diuris praecox Newcastle Doubletail	TSC Act - V EPBC Act – V ROTAP – 2VC-	Found in eucalypt forests on hilltops or slopes and is widespread in grassy habitats. Large populations have been recorded within power line easements at Anna Bay and Bobs Farm (ERM, 2003).	**High** Suitable habitat was considered to be present over the majority of the study area. Recorded a short distance outside the study area.	**Yes**
Genoplesium baueri Bauer's Midge Orchid	TSC Act – V ROTAP – 3RC-	Grows in sparse sclerophyll forest and moss gardens over sandstone.	**Unlikely** No suitable habitat was considered to be present for this orchid species. No local records exist for this species.	**No**
Phaius australis Lesser Swamp Orchid	TSC Act - E EPBC Act – E ROTAP – 3VCa	Swampy grassland or swampy forest including rainforest, eucalypt or paperbark forest, mostly in coastal areas. Occurs in Queensland and north-east NSW as far south as Coffs Harbour. Historically, it extended farther south, to Port Macquarie.	**Unlikely** Suitable habitat was present within the two areas of Swamp Sclerophyll Forest. However, the study area occurs well south of known distribution of the orchid	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			species.	
Rhizanthella slateri Eastern Underground Orchid	TSC Act - E EPBC Act – E ROTAP – 3KC-	Habitat requirements are poorly understood and no particular vegetation type has been associated with this species, although it is known to occur in sclerophyll forest. This species is highly cryptic as it grows almost completely below the soil. It flowers from September to November. This orchid species has not been recorded on the Tomaree Peninsula. The nearest known local record of this species is Bulahdelah (Jones, 2006).	**Low** Only marginal habitat was present.	**Yes**
Pterostylis chaetophora Taree Rustyhood	TSC Act-V	The preferred habitat is seasonally moist, dry sclerophyll forest with a grass and shrub understorey. In NSW, it is currently known from 18 scattered locations in a relatively small area between Taree and Kurri Kurri, extending to the south-east towards Tea Gardens and west into the Upper Hunter, with additional records near Denman and Wingen. This species has also been recorded near Grahamstown Dam near Medowie (Pers.com. Steve Lewer OEH).	**Low** Suitable habitat was found to be present over a large portion of the study area containing Dry Sclerophyll Forest.	**Yes**
Grevillea parviflora subsp. *parviflora* Small-flowered Grevillea	TSC Act-V EPBC Act-V	This species of Grevillea occurs in light clayey soils in woodlands. This species grows chiefly in south-western Sydney. Disjunct populations occur near Cessnock, Putty and Cooranbong (Fairley, 2004). A record from Oyster Bay was present on the OEH BioNet database (OEH, 2017).	**Unlikely** No known soil types or associated flora species were present. The study area is not composed of older Pleistocene-aged sands.	**No**
Allocasuarina defungens Dwarf Heath Casuarina	TSC Act-E EPBC Act-E ROTAP – 2E	A small erect shrub occurring on sand in the Nabiac area and farther north in the NSW North Coast Region. Grows mainly in tall heath on sand, but can also occur on clay soils and sandstone (DEC, 2005). It is found in coastal areas of wet to dry, dense, low, closed heath land growing on Pleistocene-aged marine aeolian derived soils (Wilson & Johnson, 1989).	**Unlikely** The study area is not composed of Pleistocene-aged sands. The study area is also located outside the know distribution of this species.	**No**
Allocasuarina simulans *Nabiac Casuarina*	TSC Act-V EPBC Act-V	The Nabiac Casuarina is restricted to the mid-north coast of NSW, from Nabiac to Forster and is very rare. The Nabiac Casuarina grows in heathland on coastal sands.	**Unlikely** The study area is also located outside the know distribution of this species.	**No**
Angophora inopina Charmhaven Apple	TSC Act-V EPBC Act-V ROTAP – 2R-	Found in shallow sandy soils within open woodland/forest assemblages in co-dominant distribution with *Eucalyptus haemastoma* (Scribbly Gum), *Corymbia gummifera* (Red	**Unlikely** No associated woodland/forest assemblages were present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		Bloodwood) and *Eucalyptus capitellata* (Brown Stringybark), as well as within wet-dry heath, and swamp forest communities. The main occurrences of this species are in the Wyong and Lake Macquarie LGA. Disjunct populations have also been found south of Karuah in the Port Stephens LGA and north of Karuah in the Great Lakes LGA.		
Callistemon linearifolius Netted Bottle Brush	TSC Act-V ROTAP – 2RCi	Grows in dry sclerophyll forest on the coast and adjacent ranges from the Georges River to the Hawkesbury River in the Sydney area, and north to Nelson Bay. This species is known to occur within Stoney Ridge Reserve at Soldiers Point.	**Low** Suitable habitat was found to be present over a large portion of the study area containing Dry Sclerophyll Forest.	**Yes**
Eucalyptus camfieldii Camfield's Stringybark	TSC Act – V EPBC Act – V	Records from Tanilba Bay on Shrubby Wallum Heath on a ridge with sandy soil with *Corymbia gummifera* and *Eucalyptus piperita.*	**Unlikely** The site lacks Wallum Heath.	**No**
Eucalyptus glaucina Slaty Red Gum	TSC Act – V EPBC Act – V ROTAP – 3VCa	The Slaty Red Gum principally occurs in the Casino area in northern NSW and from Gloucester to Broke, in mid-northern NSW. It grows mostly on gentle slopes near drainage lines in alluvial and clayey soils, in open forest.	**Unlikely** No suitable habitat was present.	**No**
Eucalyptus parramattensis subsp. *decadens* Drooping Red Gum	TSC Act - V EPBC Act – V ROTAP – 2V	Occurs in woodland on sandy soils in wet sites. In the Port Stephens area, the Drooping Red Gum occurs in open wet sclerophyll woodland on heavy, often waterlogged, inter-barrier depression soils. This species is present within Mambo Swamp on the southern shore of Port Stephens.	**Low** Marginal habitat was considered to be present on lower areas of ground in the far north of the study area.	**Yes**
Melaleuca biconvexa Biconvex Paperbark	TSC Act - V	May occur in dense stands adjacent to watercourses, in association with other *Melaleuca* species or as an understorey species in wet forest.	**Low** No suitable habitat was considered to be present. No nearly local records.	**Yes**
Melaleuca groveana Grove's Paperbark	TSC Act-V ROTAP – 3RC-	This species is generally found in north eastern NSW and South East Queensland in heath, often in exposed sites and mainly at higher altitude. In Tomaree National Park, *Melaleuca groveana* occurs in closed heath communities on rhyodacite volcanic rock.	**Unlikely** The study area lacked associated geology, soil and vegetation types.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Syzygium paniculatum Magenta Lilly Pilly	TSC Act - E EPBC Act – V ROTAP 3VCi	Occurs in coastal rainforests on sandy soils or stabilised coastal dunes from Jervis Bay to Bulahdelah in NSW.	**Low** Suitable habitat was considered to be present in the more sheltered areas of sclerophyll forest.	**Yes**
Tetratheca juncea Black-eyed Susan	TSC Act-V EPBC Act-V ROTAP - 3VCa	Heath and Dry Sclerophyll Forests on low nutrient soil with a dense understorey of grasses. Is most commonly found associated with species including, *Angophora costata* (Smooth-barked Apple), *Eucalyptus globoidea* (White Stringybark), *Corymbia gummifera* (Red Bloodwood) and *Acacia myrtifolia* (Myrtle Wattle).	**Unlikely** The study area lacked associated soil and vegetation types. No nearby local records (OEH, 2017).	**No**
Prostanthera densa Villous Mintbush	TSC Act - V EPBC Act – V ROTAP – 3VC-	This species is known to occur on clay soils on volcanic hills and on sandy soils occurring as a shallow mantle over volcanic hills. It has been reported generally from sclerophyll forest and shrubland on coastal headlands and near-coastal ranges, chiefly on sandstone. The closest records are likely to occur on Gang Gang Hill, Nelson Bay well to the north of the study area.	**Unlikely** The study area lacked associated geology, soil and vegetation types.	**No**
Asperula asthenes Trailing Woodruff	TSC Act - V ROTAP – 3VC-	Damp Sites, often along riverbanks (DEC, 2006). The major portion of the distribution of this species occurs in the Great Lakes LGA. Populations are known from North Karuah and The Branch areas (Great Lakes Council, 2003).	**Unlikely** The study area lacked associated drainage lines and vegetation types.	**No**
Galium australe Tangled Bedstraw	TSC Act-E	Found in moist gullies of tall forest, *Eucalyptus tereticornis* (Forest Red Gum) forest, coastal Banksia shrubland, and *Allocasuarina nana* heathland.	**Unlikely** This species is unlikely to be present due to the lack of associated vegetation and local records.	**No**
Lindernia alsinoides Noah's False Chickweed	TSC Act-E	Grows in swampy sites in sclerophyll forests and coastal heath.	**Low** Suitable habitat was considered to be present in the south of the study area on the edges of the Swamp Mahogany/Paperbark Forest assemblage. The study area would be considered to be	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			south of the known distribution of this species.	
Chamaesyce psammogeton Sand Spurge	TSC Act-E	This prostrate perennial herb grows on foredunes and exposed sites on headlands.	**Unlikely** No suitable habitat was present.	**No**
Senecio spathulatus Coastal Fireweed	TSC Act-E	Confined to areas of unstabilised sand on coastal dunes.	**Unlikely** No suitable habitat was present.	**No**
Streblus pendulinus Siah's Backbone	EPBC Act - E	Siah's Backbone is found in warmer rainforests, chiefly along watercourses. The altitudinal range is from near sea level to 800 m above sea level. The species grows in well-developed rainforest, gallery forest and drier, more seasonal rainforest.	**Unlikely** No suitable habitat was present.	**No**
Maundia triglochinoides	TSC Act - V	Grows in swamps, creeks or shallow freshwater 30-60cm deep on heavy clay with low nutrients. Is known to occur within drainage channels around Williamtown to the south of the study area.	**Low** The area of wetland contains suitable habitat.	**Yes**
Cynanchum elegans White-flowered Wax Plant	TSC Act – E1 EPBC Act – E ROTAP 3ECi	This species occurs in scattered coastal localities from the QLD-NSW border south to Wollongong. Found in dry, littoral or subtropical rainforest, and occasionally in scrub and woodland from sea level to about 600m ASL. Records are known from Ash Island, Kooragang Wetlands.	**Low** Marginal habitat would be confined to the more sheltered areas of the study area.	**Yes**
Persicaria elatior Tall Knotweed	TSC Act - V EPBC Act – V ROTAP – 3V	Grows in damp sites, especially beside streams, lakes, margins of dams and occasionally in swamp forest.	**Low** Habitat was considered to be present within the lower lying areas of ground containing wetland in the north of the study area. The occurrence of this species is marginalised by the lack of nearby local records.	**Yes**
Zannichellia palustris	TSC Act-E1	Grows in fresh or slightly saline stationary or slowly flowing water.	**Low** Habitat was considered to be present within the lower lying areas of ground containing	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			wetland in the north of the study area. The occurrence of this species is marginalised by the lack of nearby local records.	
Petalura gigantea Giant Dragonfly	TSC Act-E	Permanent wetlands both coastal and upland. Larvae occupy permanent long chambered burrows built under swamps. According to the OEH database this Dragonfly has been recorded within Mambo Swamp on the southern side of Port Stephens in 2006 (OEH, 2017).	**Low-Moderate** Swamps and wetland within the study area contain suitable habitat for this Dragonfly species.	**Yes**
Crinia tinnula Wallum Froglet	TSC Act-V	Shallow acid swamps (temporary / semi-permanent) and associated connecting channels and deeper water holes (permanent) consisting of hard-leafed heaths, shrubs and woodland on coastal plains and dunes and associated sedgelands and swamps in low lying areas collectively known as wallum.	**Moderate** Suitable habitat was found to occur within the area of wetland and swamp forest within the north of the study area.	**Yes**
Uperoleia mahonyi Mahony's Toadlet	TSC Act-E	Inhabits ephemeral and semi-permanent swamps and swales on the coastal fringe of its range. Records occur in heath or wallum habitats almost exclusively associated with leached (highly nutrient impoverished) white sand. This species has also been recorded on more recent Holocene Dunes (Dr Simon Clulow *pers.com*). Commonly associated with acid paperbark swamps, is also known to occur in wallum heath, swamp mahogany-paperbark swamp forest, heath shrubland and Sydney red gum woodland. Recent studies suggest intact vegetation adjacent to and within water bodies is an important habitat feature for this species. Endemic to the mid-north coast of New South Wales (NSW) and to date has been found between Kangy Angy and Seal Rocks.	**High** Suitable habitat was found to occur within the area of wetland and swamp forest within the north of the study area.	**Yes**
Litoria aurea Green and Golden Bell Frog	TSC Act-E EPBC Act-E	This frog species inhabits swamps, lagoons, streams and ponds as well as dams, drains and storm water basins.	**Low** Suitable habitat was found to occur within the area of lower lying wetland within the north of the study area. No nearby local records (OEH, 2017).	**Yes**
Litoria brevipalmata	TSC Act-V	Open Forest, rainforest bordering cleared areas.	**Low**	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Green-thighed Frog			Only marginal habitat was present within the study area for this frog species. No nearby local records (OEH, 2017).	
Mixophyes balbus Stuttering Frog	TSC Act-V EPBC Act-V	Occurs in wet forest regions of south-eastern Queensland, Eastern NSW and Victoria. In late spring, eggs are deposited among leaf litter on the banks of streams and subsequently are washed into the water during heavy rain.	**Unlikely** No suitable habitat was present.	**No**
Mixophyes iteratus Great Barred Frog	TSC Act-E EPBC Act-E	Occurs on forest slopes of the Great Dividing Range, generally between 20-800m A.S.L. It appears to prefer riparian vegetation or other moist vegetation communities, generally on rich organic soils. Deep leaf litter and/or thick cover is necessary for this species. Water quality must be of a high standard, and the species occurs in 1st to 3rd order streams (i.e. 'young' streams), and is absent from ponds and ephemeral pools. Graded banks with undercuts and steep edges are favourable haunts of this frog.	**Unlikely** No suitable habitat was present.	**No**
Caretta caretta Loggerhead Turtle	TSC Act-E EPBC Act-E	Ocean dwellers foraging in deeper water for fish, jellyfish and bottom dwelling animals. The female comes ashore to layer her eggs in a hole dug on the beach in tropical regions during the warmer months.	**Unlikely** No habitat was present.	**No**
Chelonia mydas Green Turtle	TSC Act-V EPBC Act-V	Occurs in shallow seas where there is sufficient light to ensure an abundant growth of marine grasses. When resting this species searches out an appropriate rest area i.e. rock overhang, rocky pothole, which gives some protection from predators.	**Unlikely** No habitat was present.	**No**
Dermochelys coriacea Leatherback Turtle	TSC Act-V EPBC Act-E	The Leatherback Turtle is a pelagic feeder, found in tropical, subtropical and temperate waters throughout the world. It has been recorded feeding in the coastal waters of all Australian States.	**Unlikely** No habitat was present.	**No**
Eretmochelys imbricata Hawksbill Turtle	EPBC Act-V	Hawksbill turtles typically occur in tidal and sub-tidal coral and rocky reef habitats throughout tropical waters, extending into warm temperate areas as far south as northern New South Wales.	**Unlikely** No habitat was present.	**No**
Natator depressus Flatback Turtle	EPBC Act-V	Although found in open seas, they prefer inshore waters and bays where their feeding ground is the shallow, soft-bottomed seabed.	**Unlikely** No habitat was present.	**No**
Hoplocephalus bitorquatus Pale-headed Snake	TSC Act-V	Rainforest to the drier sclerophyll forests.	**Low** Suitable habitat was considered	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			to be present within the study area. There was a lack of local records for this species (OEH, 2017).	
Hoplocephalus stephensii Stephen's Banded Snake	TSC Act-V	Partly arboreal found in wet sclerophyll forest or rainforest.	**Low** Suitable habitat was considered to be present within the study area. There was a lack of local records for this species (OEH, 2017).	**Yes**
Macronectes giganteus Southern Giant Petrel	TSC Act – E EPBC Act-E	The Southern Giant Petrel ranges from deep circumpolar waters from Antarctica across the entire length of the New South Wales coast.	**Unlikely** No suitable habitat was present.	**No**
Macronectes halli Northern Giant Petrel	TSC Act - E	Inhabits subtropical waters in winter and early spring. Potential foraging resources in N.S.W. are regarded as significant during the winter months although representing a small proportion of the total foraging area for this species.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma leucoptera leucoptera Gould's Petrel	TSC Act - E	Lives pelagic life, nests on Cabbage Tree Island.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma neglecta Kermadec Petrel	TSC Act-V	It is a pelagic species inhabiting the subtropical and tropical waters of the Pacific Ocean, rarely reaching mainland.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma nigripennis Black-winged Petrel	TSC Act-V	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Pterodroma solandri Providence Petrel	TSC Act-V	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Calonectris leucomelas Streaked Shearwater	EPBC-Migratory	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Ardenna carneipes Flesh-footed Shearwater	TSC Act-V	Lives pelagic life, nests on Lord Howe Island.	**Unlikely** No suitable habitat was present.	**No**
Puffinus tenuirostris Short-tailed Shearwater	EPBC-Migratory	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Limicola falcinellus Broad-billed Sandpiper	TSC Act-V	Habitat utilised by this species includes tidal mudflats, reefs, salt marshes, freshwater wetlands and sewage farms. Favours muddy	**Unlikely** No suitable habitat was present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		ooze.		
Limosa lapponica Bar-tailed Godwit	EPBC-Migratory	Tidal mudflats, estuaries, sewerage ponds, shallow river margins, brackish or saline inland lakes and flooded pastures (Pizzey & Knight, 2001).	**Unlikely** No suitable habitat was present.	**No**
Limosa limosa Black-tailed Godwit	TSC Act-V	Habitat utilised by this species includes tidal mudflats, river edges, sandy beaches, brackish swamps as well as the shallows of lakes, reservoirs and sewage farms.	**Unlikely** No suitable habitat was present.	**No**
Arenaria interpres Ruddy Turnstone	EPBC-Migratory	Tidal reefs and pools; weed-covered rocks; pebbly, shelly and sandy shores with stranded seaweed; mudflats; occasionally inland shallow waters; sewage ponds and open or ploughed ground.	**Unlikely** No suitable habitat was present.	**No**
Xenus cinereus Terek Sandpiper	TSC Act-V	Tidal Mudflats, estuaries, shores, reefs and coastal swamps.	**Unlikely** No suitable habitat was present.	**No**
Heteroscelus brevipes Grey-tailed Tattler	EPBC-Migratory	Estuaries, tidal mudflats, mangroves, wave-washed rocks, and reefs; shallow river margins, coastal and inland.	**Unlikely** No suitable habitat was present.	**No**
Sterna albifrons Little Tern	TSC Act - E	Little Terns nest only on or near the coast in N.S.W. The typical features of the nesting area are a sandy substrate, flat or gently sloping topography, abundant shells and pebbles and little vegetation.	**Unlikely** No suitable habitat was present.	**No**
Sterna fuscata Sooty Tern	TSC Act-V	A pelagic species, does not nest in the area.	**Unlikely** No suitable habitat was present.	**No**
Actitis hypoleucos Common Sandpiper	EPBC-Migratory	Shallow pebbly, muddy or sandy edges of rivers and streams, coastal and inland; dams, lakes, sewage ponds, margins of tidal rivers, waterways in mangroves or saltmarsh; mudflats; rocky or sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Calidris acuminata Sharp-tailed Sandpiper	EPBC-Migratory	Tidal mudflats, saltmarshes, mangroves; shallow fresh, brackish or saline inland wetlands; sewage ponds and irrigated pastures.	**Unlikely** No suitable habitat was present.	**No**
Calidris canutus Red Knot	EPBC-Migratory	Tidal mudflats, sandflats, beaches, saltmarshes, flooded pastures, ploughed lands.	**Unlikely** No suitable habitat was present.	**No**
Calidris ferruginea Curlew Sandpiper	TSC Act-E EPBC-Migratory	Tidal mudflats; saltmarsh; fresh, brackish or saline wetlands; sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Calidris ruficollis Red-necked Stint	EPBC-Migratory	Tidal mudflats; saltmarsh; fresh, brackish or saline wetlands; sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Calidris tenuirostris Great Knot	TSC Act-V	Inhabits beaches, coastal mudflats, bay shores, estuarine environments; sometimes freshwater wetlands.	**Unlikely** No suitable habitat was present.	**No**

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Tringa stagnatilis Marsh Sandpiper	EPBC-Migratory	Salt; fresh, brackish or saline wetlands; sewage ponds, mangroves, tidal flats and estuaries.	**Unlikely** No suitable habitat was present.	**No**
Numenius madagascariensis Eastern Curlew	EPBC-Migratory	Estuaries, tidal mudflats, sandspits, saltmarshes, mangroves; occasionally fresh or brackish lakes.	**Unlikely** No suitable habitat was present.	**No**
Numenius minutus Little Curlew	EPBC-Migratory	Dry grasslands, floodplains, margins of drying swamps; tidal mudflats, crops and sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Numenius phaeopus Whimbrel	EPBC-Migratory	Estuaries, tidal flats, coral cays, exposed reefs, flooded paddocks, sewage ponds and lawns.	**Unlikely** No suitable habitat was present.	**No**
Charadrius bicinctus Double-banded Plover	EPBC-Migratory	Wide beaches, tidal mudflats, saltmarsh, sparsely vegetated margins of shallow saline and freshwater.	**Unlikely** No suitable habitat was present.	**No**
Charadrius leschenaultii Greater Sand-plover	TSC Act-V	Inhabits sheltered bays, harbours and estuaries with large intertidal sandflats mudflats or bare paddocks.	**Unlikely** No suitable habitat was present.	**No**
Charadrius mongolus Lesser Sand-plover	TSC Act-V	Inhabits sheltered bays, harbours and estuaries with large intertidal sandflats or mudflats.	**Unlikely** No suitable habitat was present.	**No**
Pluvialis fulva Pacific Golden Plover	EPBC-Migratory	Estuaries, tidal mudflats, saltmarshes, mangroves; rocky reefs, margins of shallow open inland swamps, sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Pluvialis squatarola Grey Plover	EPBC-Migratory	Mudflats, saltmarsh, tidal reefs and estuaries.	**Unlikely** No suitable habitat was present.	**No**
Diomedea antipodensis Antipodeam Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Diomedea gibsoni Gibson's Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche bulleri Buller's Albatross	EPBC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta cauta Shy Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta salvini Salvin's Albatross	EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta steadi White-capped Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche melanophris impavida Campbell Albatross	EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**

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Haematopus fuliginosus Sooty Oystercatcher	TSC Act-V	Prefer rocky intertidal shorelines and sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Haematopus longirostris Pied Oystercatcher	TSC Act-E	Prefer rocky intertidal shorelines and sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Esacus neglectus Beach Stone-Curlew	TSC Act–E4A	Inhabits undisturbed sandy beaches, especially those with extensive mangrove-backed sandflats, mudflats or reefs exposed at low tide. It has also been recorded utilising cane fields that are located in proximity to tidal areas.	**Unlikely** No suitable habitat was present.	**No**
Gallinago hardwickii Latham's Snipe	EPBC Act-M	Utilises a variety of habitats, such as soft wet ground or shallow water with tussock and other green and dead vegetation, and scrub or open wetland from sea-level to alpine bogs (Pizzey & Knight, 2001).	**Low** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Rostratula benghalensis australis Australian Painted Snipe	TSC Act-E EPBC Act-V & M	Margins of swamps and streams, chiefly those covered with low and stunted vegetation.	**Low** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Botaurus poiciloptilus Australasian Bittern	TSC Act-E EPBC Act-E	Favours permanent fresh-waters dominated by sedges, rushes, reeds or cutting grasses (eg. Phragmites, Scirpus, Eleocharis, Juncus, Typha, Baumea and Gahnia).	**Low - Moderate** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Ixobrychus flavicollis Black Bittern	TSC Act-V	Near water in mangroves and other trees, often forming only a narrow fringe of cover.	**Low** Suitable habitat was present around areas of freshwater wetlands in the east of the study area.	**Yes**
Ardea alba Great Egret	EPBC Act-M	Inhabits shallows of rivers, larger dams, freshwater wetlands and irrigation areas.	**Low - Moderate** Suitable habitat was present around areas of freshwater wetlands in the east of the study area.	**Yes**
Ardea ibis	EPBC Act-M	Inhabits stock paddocks, pastures, croplands, wetlands and drains.	**High – Recorded within the**	**No – Not listed**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Cattle Egret			**study area.** Suitable habitat was present for this species within the area of pasture/Grassland in the north of the study area.	**under TSC Act. Assessed in Section 11.**
Ephippiorhynchus asiaticus Black-necked Stork	TSC Act-E	Inhabits swamps associated with river systems and large permanent pools but sometimes appears on the coast or in estuaries. It has also been recorded on farm dams and sewage treatment ponds.	**Unlikely** No habitat was considered to be present due to the lack of larger areas of permanent waterbodies.	**No**
Irediparra gallinacea Comb-crested Jacana	TSC Act-V	Inhabits mostly deep permanent freshwater wetlands, which are abundant with floating aquatic vegetation that forms dense mats or rafts on the surface of the water (eg. *Nymphaeaceae, Myriophyllum lacifolium, Marsilea* and *Riccia*).	**Unlikely** No habitat was considered to be present due to the lack of deep freshwater and floating aquatic vegetation.	**No**
Turnix maculosa Red-backed Button-quail	TSC Act-V	Grasses, sedges near water, grassy woodlands, rainforest edges; black soil plains, spinifex, cereal crops and gardens.	**Unlikely** Study area occurs below the known distribution of this species.	**No**
Burhinus grallarius Bush Stone-curlew	TSC Act-E	This species inhabits dry open forest and woodland with an open grassy understorey that has not been overgrazed. It prefers woodland with many fallen branches where it roosts during the day. It has also been known to utilise coastal scrub, mangrove fringes, golf courses and plantations. This species has been recorded within the adjoining property (Lot 3) to the east (NPWS, 2011).	**Low-moderate** Suitable habitat was present for this species within the more open areas of woodland.	**Yes**
Ptilinopus magnificus Wompoo Fruit-Dove	TSC Act-V	This frugivorous Rainforest specialist inhabits the canopy of Sub-tropical, Warm-temperate and Littoral Rainforests. Favoured feed trees include Figs, Laurels, Myrtles and native Tamarind. The females lay one egg on a flimsy platform of vine tendrils on a slender horizontal branch.	**Low** Areas of secondary habitat were present within the study area.	**Yes**
Ptilinopus regina Rose Crowned Fruit-dove	TSC Act-V	Inhabits rainforest, though it also frequents nearby drier forests as well as mangroves. It usually feeds on Figs or other fruit and berry-bearing trees.	**Low** Areas of secondary habitat were present within the study area.	**Yes**
Ptilinopus superbus Superb Fruit Dove	TSC Act-V	Lives mainly in Rainforest but will feed in adjacent Mangroves or Eucalypt forest, venturing into coastal habitats. The nest is a platform	**Low** Areas of secondary habitat were	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		built in a small tree on a horizontal fork situated in Open Forest at the edge of scrub.	present within the study area.	
Lathamus discolor Swift Parrot	TSC Act-E EPBC Act- Crit-E & M	Open Forest to Woodland, also street trees and in parks and gardens, winter flowering eucalypts for feeding. This species nests in Tasmania during the summer months.	**Low – Moderate** Suitable foraging habitat was present in the form of winter flowering species particularly *Eucalyptus robusta* (Swamp Mahogany).	**Yes**
Neophema pulchella Turquoise Parrot	TSC Act-V	Lives on the edges of Eucalypt woodland adjoining clearings and on timbered ridges and creeks in farmland. It has also been recorded utilising roadside verges and orchards. Nests in small hollow branches of Eucalypts.	**Low** Only marginal habitat was considered to be present within the study area. This parrot would be an infrequent visitor to the local area.	**Yes**
Glossopsitta pusilla Little Lorikeet	TSC Act-V	Tall Open Forests, woodlands, orchards, parks and street trees.	**High – recorded on site.** Suitable foraging and nesting habitat was considered to be present over much of the study area.	**Yes**
Calyptorhynchus lathami Glossy Black-Cockatoo	TSC Act-V	Lowland coastal forests, dense mountain forests, semi-arid woodland and trees bordering watercourses, with (Allo)Casuarina trees for foraging.	**Low** Only marginal transitory habitat is present within the study area. A small number of *Casuarina glauca* (Swamp Oak) trees a suitable foraging species was present.	**Yes**
Callocephalon fimbriatum Gang-gang Cockatoo	TSC Act-V	Tall montane forests and woodlands in mature wet sclerophyll forests. Requires hollows in which to breed between October and January. This Cockatoo species would be an infrequent visitor to the local area.	**Low** Suitable foraging habitat was present. This species is unlikely to nest within the local area.	**Yes**
Apus pacificus Fork-tailed Swift	EPBC Act-M	Inhabits the airspace over open country from semi deserts to coasts.	**Moderate** Due to the non-specific habitat requirements habitat was present	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			within airspace above the study area.	
Hirundapus caudacutus White-throated Needletail	EPBC Act-M	Inhabits the airspace above forests, woodlands, farmlands, plains, lakes, coasts and towns.	**Moderate** Due to the non-specific habitat requirements habitat was present within airspace above the study area.	**No**
Monarcha melanopsis Black-faced Monarch	EPBC Act-M	Utilises a range of habitats including rainforests, eucalypt woodlands, coastal scrubs (Pizzey & Knight, 2001).	**Low-Moderate** Suitable habitat was present over the majority of the study area.	**No**
Monarcha trivirgatus Spectacled Monarch	EPBC Act-M	Wet forests, thickly wooded gullies, waterside vegetation and mangroves.	**Moderate** Suitable habitat was present within more thickly wooded parts of the study area.	**No**
Merops ornatus Rainbow Bee-eater	EPBC Act-M	Inhabits areas such as open woodlands with sandy soils, sand ridges, riverbanks, beaches, dunes, cliffs and rainforests.	**Low-Moderate** Suitable foraging habitat was present over the majority of the study area. No preferred nesting habitat was present.	**No**
Rhipidura rufifrons Rufous Fantail	EPBC Act-M	Utilises a range of habitats including rainforests, wet sclerophyll forests, monsoon forests, scrubs, mangroves, watercourses, parks and gardens. During migration this species also utilises farms, street trees and buildings (Pizzey & Knight, 2001).	**High – recorded within study area.** Suitable foraging and nesting habitat was considered to be present.	**No**
Epthianura albifrons White-fronted Chat	TSC Act-V	Occurs mostly in the southern half of NSW, occurring in damp open habitats along the coast, and near waterways in the western part of the state	**Low** Marginal habitat was present within the north of the study area.	**Yes**
Petroica boodang Scarlet Robin	TSC Act-V	The Scarlet Robin breeds in drier eucalypt forests and temperate woodlands, often on ridges and slopes, within an open understorey of shrubs and grasses and sometimes in open areas. Abundant logs and coarse woody debris are important structural components of its	**Low** Only marginal habitat was considered to be present within areas of open forest. This	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		habitat. In autumn and winter it migrates to more open habitats such as grassy open woodland or paddocks with scattered trees.	species is more commonly found inland from the coast.	
Petroica phoenicea Flame Robin	TSC Act-V	Breeds in upland tall moist eucalypt forests and woodlands, often on ridges and slopes and prefers clearings or areas with open understoreys. In winter, birds migrate to drier more open habitats in the lowlands including dry forests, open woodlands and in pastures and native grasslands, with or without scattered trees.	**Low** Only marginal habitat was considered to be present within areas of open forest. This species is more commonly found inland from the coast.	**Yes**
Climacteris picumnus victoriae Brown Treecreeper	TSC Act-V	Occupies Eucalypt woodlands, particularly open woodlands lacking a dense understorey, River Red Gums on watercourses and around lakeshores. It is sedentary and nests in tree hollows within permanent territories.	**Unlikely** This Treecreeper species is more commonly found inland from the coast and would be unlikely to be present within the study area.	**No**
Anthochaera phrygia Regent Honeyeater	TSC Act-Crit-E EPBC Act- Crit-E & M	Temperate woodlands and open forest, including forest edges, preferring to forage on large-flowered Eucalypts. Was recorded in June 2014 feeding on flowering specimens of *Eucalyptus robusta* (Swamp Mahogany) at Tanilba Bay Sailing Club (Port Stephens Examiner, 2014).	**Low-Moderate** Suitable foraging habitat was present in the form of flowering myrtaceous species particularly the winter flowering *Eucalyptus robusta* (Swamp Mahogany).	**Yes**
Daphoenositta chrysoptera Varied Sittella	TSC Act-V	Open eucalypt woodland/forest, mallee, inland acacia, coastal tea-tree scrubs, golf courses, orchards and parks.	**High** Suitable foraging habitat and nesting habitat was present.	**Yes**
Melithreptus gularis gularis Black-chinned Honeyeater	TSC Act-V	Usually found on the western side of the Great Dividing Range in dry sclerophyll forests and woodlands containing box-ironbark associations and River Red Gum. In the Hunter Valley this species is known to utilise drier coastal woodlands. Usually found in open woodlands.	**Low** Only marginal habitat was considered to be present for this woodland bird.	**Yes**
Pomatostomus temporalis temporalis Grey-crowned Babbler	TSC Act-V	Open forest, woodland, scrubland, farmland and outer suburbs. Prefers woodlands with regenerating trees, tall shrubs, and an intact ground cover of grass and forbs. One old record from 1978 exists within the Worimi Conservation Areas in the vicinity of	**Low** Marginal habitat occurs within the cleared grassy area with scattered trees in the far north-	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		Boyces Track.	east of the study area.	
Dasyornis brachypterus Eastern Bristlebird	TSC Act-E EPBC Act-E	Habitat is characterised by dense, low vegetation including heath and open woodland with a heathy understorey; in northern NSW occurs in open forest with tussocky grass understorey.	**Unlikely** No known local records.	**No**
Circus assimilis Spotted Harrier	TSC Act-V	Occurs throughout the Australian mainland, except in densely forested or wooded habitats of the coast, escarpment and ranges. Occurs in grassy open woodland including acacia and mallee remnants, inland riparian woodland, grassland and shrub steppe. It is found most commonly in native grassland, but also occurs in agricultural land, foraging over open habitats including edges of inland wetlands.	**Unlikely** This species is not usually associated with forested habitat of the coast.	**No**
Pandion cristatus Eastern Osprey	TSC Act-V	Open and swamp forest adjacent to the coast or estuaries, fishing mainly in brackish or salt water. This species is known to inhabit the Port Stephens area.	**Low** Hunting habitat was absent. Large trees within the study area may provide suitable nesting habitat.	**Yes**
Lophoictinia isura Square-tailed Kite	TSC Act-V	The Square-tailed Kite inhabits Open Forests and Woodlands, particularly those on fertile soils with abundant passerines. They may also range into nearby open habitats but not into extensive treeless regions.	**Moderate** Due to the generalist habitat requirements of this species habitat was considered to be present.	**Yes**
Erythrotriorchis radiatus Red Goshawk	TSC Act-E4A EPBC Act - V	In NSW, preferred habitats include mixed subtropical rainforest, *Melaleuca* swamp forest and riparian *Eucalyptus* forest of coastal rivers.	**Low** Suitable habitat was present.	**Yes**
Hieraaetus morphnoides Little Eagle	TSC Act-V	The Little Eagle occupies habitats rich in prey within open eucalypt forest, woodland or open woodland. Sheoak or acacia woodlands and riparian woodlands of interior NSW are also used (Marchant and Higgins 1993; Aumann 2001a). For nest sites it requires a tall living tree within a remnant patch, where pairs build a large stick nest in winter and lay in early spring.	**Moderate** Due to the generalist requirements of this species habitat was considered to be present within the site.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Haliaeetus leucogaster White-bellied Sea Eagle	TSC Act-V EPBC Act-M	Occupies habitat characterised by the presence of large areas of open water and feeds opportunistically on a variety of fish, birds, reptiles, mammals and crustaceans. The nests are built in a variety of sites including tall trees, bushes, mangroves, cliffs, rocky outcrops, caves, crevices, on the ground or even in artificial structures.	**High – Recorded flying over study area.** Nesting habitat was present. No preferred hunting habitat was present.	**Yes**
Ninox connivens Barking Owl	TSC Act-V	This species is found in forest and woodland, encountered most commonly in savanna and paperbark woodlands. It sometimes roosts in rainforests, but it requires the more open country for hunting and hollow Eucalypts for breeding.	**Moderate** Suitable hunting and limited roosting habitat was present within the study area.	**Yes**
Ninox strenua Powerful Owl	TSC Act-V	Inhabits a wide range of vegetation types from wet Eucalypt forests with a Rainforest understorey to Dry Open Forests and Woodlands. The species has been recorded utilising disturbed habitats such as exotic pine plantations and large trees in parks and gardens. Powerful Owls nest in a slight depression in the wood-mould on the base of a cavity in a large old tree, sometimes in excess of 25 metres above the ground.	**High – Likely pellet found within the study area.** Suitable hunting, roosting and nesting habitat was present.	**Yes**
Tyto longimembris Eastern Grass Owl	TSC Act-V	This species roost and nest on the ground, in crops or in thick grass tussock often associated with swamps.	**Low** Marginal hunting and roosting habitat was present in the north of the study area.	**Yes**
Tyto novaehollandiae Masked Owl	TSC Act-V	A range of wooded habitats that contain mature trees with large hollows for roosting and nesting, and more open areas for hunting.	**Moderate-High** Suitable hunting, roosting and nesting habitat was present.	**Yes**
Tyto tenebricosa Sooty Owl	TSC Act-V	Prefers dense dimly-lit forests, inhabiting pockets of rainforest and wet sclerophyll forest mainly in mountainous areas, often in south-east facing gullies.	**Unlikely** Due to the lack of rainforest and tall wet sclerophyll forest the Sooty Owl would be considered unlikely to be present.	**No**
Planigale maculata Common Planigale	TSC Act-V	In NSW it is found along the coastal strip, occupying a variety of habitats ranging from rainforest, wet and dry sclerophyll forests to grasslands, marshlands and rocky areas.	**Low** Suitable habitat was present within the study area. Few records for this species are known from the locality.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Dasyurus maculatus maculatus Tiger Quoll	TSC Act-V	Inhabits sclerophyll forests, rainforests and coastal woodlands. Nests are made in rock caves and hollow logs or trees, and basking sites are usually found nearby.	**Moderate - High** Suitable habitat was present over a large portion of the study area.	**Yes**
Phascogale tapoatafa Brush-tailed Phascogale	TSC Act-V	Sparsely distributed outside the semi-arid zone in dry sclerophyll forest and monsoonal forest and woodland.	**Low** Foraging and nesting habitat was present over much of the study area. Locally this species prefers rough barked (Woodland containing Ironbark species).	**Yes**
Phascolarctos cinereus Koala	TSC Act-V EPBC Act – V (NSW & Qld)	Coastal woodland and open forest containing suitable food trees.	**High – Some evidence of Koala activity.** Preferred feed tree, *Eucalyptus robusta* (Swamp Mahogany) was present within the north of the study area.	**Yes**
Macropus parma Parma Wallaby	TSC Act-V	Preferred habitat is moist eucalypt forest with thick, shrubby understorey, often with nearby grassy areas, rainforest margins and occasionally drier eucalypt forest.	**Unlikely** Suitable habitat was considered to be present, however due to the lack of local records this species would be unlikely to be present.	**No**
Petrogale penicillata Brush-tailed Rock-wallaby	TSC Act – E1 EPBC Act – E	Found in steep rocky sites in sclerophyll forests with a grassy understorey.	**Unlikely** No suitable habitat was present.	**No**
Aepyprymnus rufescens Rufous Bettong	TSC Act-V	Occupies a variety of habitats ranging from coastal Eucalypt forests to tall Wet Sclerophyll Forests along the east coast of Australia. West of the Great Dividing Range it occupies Low Open Woodland. It tends to favour those areas where there is a sparse or grassy understorey.	**Low** Suitable habitat was considered to be present. Due to the absence of local records the occurrence of this species would be low.	**Yes**
Potorous tridactylus tridactylus Long-nosed Potoroo	TSC Act-V	This species is known from a variety of habitats, including Rainforest, Open Forests and Woodlands with dense groundcover, and dense, wet coastal heathlands. Soft (often sandy) substrates are preferred by this species.	**Low - Moderate** Suitable habitat was available within the study area. Records known from Williamtown (RPS Harper Somers O'Sullivan,	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			2009).	
Cercartetus nanus Eastern Pygmy-possum	TSC Act-V	Feeds mostly on the pollen and nectar from banksias, eucalypts and understorey plants and will also eat insects, seeds and fruit. Hollow bearing trees are favoured for shelter and nesting although spherical nests constructed of short shredded bark have been found between the wood and bark of eucalypts. This species has been recorded north of Fern Bay within Coastal Sand Blackbutt Forest (Umwelt, 2004).	**Low - Moderate** Foraging and nesting habitat was present.	**Yes**
Petaurus australis Yellow-Bellied Glider	TSC Act-V	This species occupies tall, mature wet eucalypt forest.	**Low** Foraging and nesting habitat was present. No known local records.	**Yes**
Petaurus norfolcensis Squirrel Glider	TSC Act-V	Dry sclerophyll forests and woodlands with exudates for foraging and hollows for nesting.	**High – Recorded within Study Area.** Foraging and nesting habitat was present over a large portion of the study area.	**Yes**
Pseudomys gracilicaudatus Eastern Chestnut Mouse	TSC Act-V	Found in heathland, wet heathland and swamps.	**Low** Only marginal habitat was present. No known local records.	**Yes**
Psuedomys novaehollandiae New Holland Mouse	EPBC Act – E	Known to inhabit open heathlands, open woodlands with a heathland understorey and vegetated sand dunes.	**Moderate - High** Suitable habitat was present within the more open sandy vegetated parts of the study area.	**No – Not listed under TSC Act. Assessed in Section 11.**
Pteropus poliocephalus Grey-headed Flying-Fox	TSC Act-V EPBC Act-V	Wet and Dry Sclerophyll Forests, Rainforest, Mangroves and Paperbark swamps and Banksia Woodlands.	**High – Recorded within study area.** Seasonal foraging habitat was present over the majority of the study area. Roosting habitat was also likely to be present.	**Yes**
Syconycteris australis	TSC Act-V	Occurs within coastal areas of northeast NSW and eastern	**Low**	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Common Blossom-bat		Queensland. Often roost in littoral rainforest and feed on flowers in adjacent heathland and paperbark swamps. Has been recorded just north of Hawks Nest (Wildthing Environmental Consultants, 2012).	Suitable habitat was present within the study area. The study area would be considered to be outside the southern limit of the distribution of this species.	
Kerivoula papuensis Golden-tipped Bat	TSC Act-V	Found in rainforest and adjacent wet and dry sclerophyll forest up to 1000m. It is also recorded in tall open forest. This species roosts mainly in abandoned hanging Yellow-throated Scrubwren and Brown Gerygone nests, also in tree hollows, dense foliage and epiphytes; located in rainforest gullies on small first and second-order streams. There is a paucity of local record of this species.	**Low** Suitable hunting and roosting habitat was present.	**Yes**
Saccolaimus flaviventris Yellow-bellied Sheathtail-bat	TSC Act-V	This microchiropteran bat species occupies a range of habitats including eucalypt forests, Mallee or open country. Roosts in tree hollows, animal burrows, dry clay cracks, under rock slabs and in abandoned Sugar Glider nests.	**Moderate** Suitable hunting and roosting habitat was present.	**Yes**
Mormopterus norfolkensis East Coast Freetail-bat	TSC Act-V	This species appears to live in Sclerophyll Forests and Woodland. Roosts in tree hollows or under loose bark.	**High** Suitable hunting and roosting habitat was present.	**Yes**
Falsistrellus tasmaniensis Eastern False Pipistrelle	TSC Act-V	Inhabits sclerophyll forests from the Great Divide to the east coast. A preference has been noted for wet habitats where trees are more than 20m high. It has been observed roosting in holes and hollow trunks of Eucalypts.	**High – Recorded within the study area.** Suitable hunting and roosting habitat was present.	**Yes**
Miniopterus australis Little Bentwing-bat	TSC Act-V	Tropical Rainforest to warm-temperate Wet and Dry Sclerophyll Forest; caves or similar structures for roosting.	**High – recorded within the study area.** Suitable hunting habitat was present. The study area lacked preferred roosting habitat.	**Yes**
Miniopterus schreibersii oceanensis Large Bentwing-bat	TSC Act-V	Wet and Dry Tall Open Forest, Rainforest, Monsoon Forest, Open Woodland, Paperbark Forests and Open Grasslands; caves or similar structures for roosting. It occasionally uses tree hollows.	**High – recorded within the study area.** Suitable hunting habitat was present. No preferred roosting habitat was present.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Myotis macropus Eastern Myotis	TSC Act-V	Various habitats of the coast and adjacent ranges with suitable waterbodies for hunting; caves or similar structures for roosting. It occasionally uses tree hollows.	**Moderate** Suitable hunting habitat was present on site.	**Yes**
Scoteanax rueppellii Greater Broad-nosed Bat	TSC Act-V	Tree-lined creeks, woodland/clearing ecotones and rainforest creeks, roosting mainly in tree hollows.	**High – Possible calls recorded during bat call survey.** Suitable hunting and roosting habitat was present.	**Yes**
Chalinolobus dwyeri Large-eared Pied Bat	TSC Act-V	This species has been found occupying Dry Sclerophyll Forest and Woodland. Roosts in caves, abandoned mud-nests of Fairy Martins and mine tunnels.	**Low** Suitable hunting habitat was present. No roosting habitat was available.	**Yes**
Vespadelus troughtoni Eastern Cave Bat	TSC Act-V	The Eastern Cave Bat roosts in caves and occurs in wet/dry sclerophyll forests to the semi-arid zone. It has been found roosting in small groups in sandstone overhangs, in mine tunnels and occasionally buildings.	**Low** Suitable hunting habitat was present. No roosting habitat was available.	**Yes**
Emu population in the NSW North Coast Bioregion and Port Stephens LGA.		Predominantly open habitats, including plains, grasslands, woodlands and scrubs, and may occur occasionally in forest.	**Low** Suitable habitat was present. Few local records.	**Yes**

Table 10: Habitat Assessment for Significant Species

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Corybas dowlingii Red Helmet Orchid	TSC Act-E	Forms colonies and typically grows in gullies in tall open forest on well-drained gravelly soil at elevations of 10-200m. Is restricted to New South Wales where it is currently known from 4 localities including Port Stephens (2 localities), Bulahdelah and Freemans Waterhole south of Newcastle. A population is known from Stoney Ridge Reserve on Soldiers Point on the southern shore of Port Stephens.	**Low** No preferred habitat in the form of areas of well drained gravelly soil was present within the sandy study area.	**Yes**
Cryptostylis hunteriana Leafless Tongue Orchid	TSC Act-E EPBC Act-E ROTAP – 3VC-	This species is a saprophyte, which grows in small, localised colonies on flat plains close to the coast. This species has also been recorded in mountainous areas growing in moist depressions as well as in swampy habitats.	**Low** Suitable habitat was considered to be present within the study area.	**Yes**
Diuris arenaria Tomaree Doubletail	TSC Act – E ROTAP – Recommend 2VC	Coastal heath, Dry Sclerophyll Forest with patches of *Themeda australis* (Kangaroo Grass) on sandy flats (Bishop, 1996). This species is only known from the Tomaree Peninsula on the southern side of Port Stephens.	**High-Recorded within the study area.** Suitable habitat was considered to be present over the majority of the study area.	**Yes**
Diuris praecox Newcastle Doubletail	TSC Act - V EPBC Act – V ROTAP – 2VC-	Found in eucalypt forests on hilltops or slopes and is widespread in grassy habitats. Large populations have been recorded within power line easements at Anna Bay and Bobs Farm (ERM, 2003).	**High** Suitable habitat was considered to be present over the majority of the study area. Recorded a short distance outside the study area.	**Yes**
Genoplesium baueri Bauer's Midge Orchid	TSC Act – V ROTAP – 3RC-	Grows in sparse sclerophyll forest and moss gardens over sandstone.	**Unlikely** No suitable habitat was considered to be present for this orchid species. No local records exist for this species.	**No**
Phaius australis Lesser Swamp Orchid	TSC Act - E EPBC Act – E ROTAP – 3VCa	Swampy grassland or swampy forest including rainforest, eucalypt or paperbark forest, mostly in coastal areas. Occurs in Queensland and north-east NSW as far south as Coffs Harbour. Historically, it extended farther south, to Port Macquarie.	**Unlikely** Suitable habitat was present within the two areas of Swamp Sclerophyll Forest. However, the study area occurs well south of known distribution of the orchid	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			species.	
Rhizanthella slateri Eastern Underground Orchid	TSC Act - E EPBC Act – E ROTAP – 3KC-	Habitat requirements are poorly understood and no particular vegetation type has been associated with this species, although it is known to occur in sclerophyll forest. This species is highly cryptic as it grows almost completely below the soil. It flowers from September to November. This orchid species has not been recorded on the Tomaree Peninsula. The nearest known local record of this species is Bulahdelah (Jones, 2006).	**Low** Only marginal habitat was present.	**Yes**
Pterostylis chaetophora Taree Rustyhood	TSC Act-V	The preferred habitat is seasonally moist, dry sclerophyll forest with a grass and shrub understorey. In NSW, it is currently known from 18 scattered locations in a relatively small area between Taree and Kurri Kurri, extending to the south-east towards Tea Gardens and west into the Upper Hunter, with additional records near Denman and Wingen. This species has also been recorded near Grahamstown Dam near Medowie (Pers.com. Steve Lewer OEH).	**Low** Suitable habitat was found to be present over a large portion of the study area containing Dry Sclerophyll Forest.	**Yes**
Grevillea parviflora subsp. *parviflora* Small-flowered Grevillea	TSC Act-V EPBC Act-V	This species of Grevillea occurs in light clayey soils in woodlands. This species grows chiefly in south-western Sydney. Disjunct populations occur near Cessnock, Putty and Cooranbong (Fairley, 2004). A record from Oyster Bay was present on the OEH BioNet database (OEH, 2017).	**Unlikely** No known soil types or associated flora species were present. The study area is not composed of older Pleistocene-aged sands.	**No**
Allocasuarina defungens Dwarf Heath Casuarina	TSC Act-E EPBC Act-E ROTAP – 2E	A small erect shrub occurring on sand in the Nabiac area and farther north in the NSW North Coast Region. Grows mainly in tall heath on sand, but can also occur on clay soils and sandstone (DEC, 2005). It is found in coastal areas of wet to dry, dense, low, closed heath land growing on Pleistocene-aged marine aeolian derived soils (Wilson & Johnson, 1989).	**Unlikely** The study area is not composed of Pleistocene-aged sands. The study area is also located outside the know distribution of this species.	**No**
Allocasuarina simulans *Nabiac Casuarina*	TSC Act-V EPBC Act-V	The Nabiac Casuarina is restricted to the mid-north coast of NSW, from Nabiac to Forster and is very rare. The Nabiac Casuarina grows in heathland on coastal sands.	**Unlikely** The study area is also located outside the know distribution of this species.	**No**
Angophora inopina Charmhaven Apple	TSC Act-V EPBC Act-V ROTAP – 2R-	Found in shallow sandy soils within open woodland/forest assemblages in co-dominant distribution with *Eucalyptus haemastoma* (Scribbly Gum), *Corymbia gummifera* (Red	**Unlikely** No associated woodland/forest assemblages were present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		Bloodwood) and *Eucalyptus capitellata* (Brown Stringybark), as well as within wet-dry heath, and swamp forest communities. The main occurrences of this species are in the Wyong and Lake Macquarie LGA. Disjunct populations have also been found south of Karuah in the Port Stephens LGA and north of Karuah in the Great Lakes LGA.		
Callistemon linearifolius Netted Bottle Brush	TSC Act-V ROTAP – 2RCi	Grows in dry sclerophyll forest on the coast and adjacent ranges from the Georges River to the Hawkesbury River in the Sydney area, and north to Nelson Bay. This species is known to occur within Stoney Ridge Reserve at Soldiers Point.	**Low** Suitable habitat was found to be present over a large portion of the study area containing Dry Sclerophyll Forest.	**Yes**
Eucalyptus camfieldii Camfield's Stringybark	TSC Act – V EPBC Act – V	Records from Tanilba Bay on Shrubby Wallum Heath on a ridge with sandy soil with *Corymbia gummifera* and *Eucalyptus piperita.*	**Unlikely** The site lacks Wallum Heath.	**No**
Eucalyptus glaucina Slaty Red Gum	TSC Act – V EPBC Act – V ROTAP – 3VCa	The Slaty Red Gum principally occurs in the Casino area in northern NSW and from Gloucester to Broke, in mid-northern NSW. It grows mostly on gentle slopes near drainage lines in alluvial and clayey soils, in open forest.	**Unlikely** No suitable habitat was present.	**No**
Eucalyptus parramattensis subsp. *decadens* Drooping Red Gum	TSC Act - V EPBC Act – V ROTAP – 2V	Occurs in woodland on sandy soils in wet sites. In the Port Stephens area, the Drooping Red Gum occurs in open wet sclerophyll woodland on heavy, often waterlogged, inter-barrier depression soils. This species is present within Mambo Swamp on the southern shore of Port Stephens.	**Low** Marginal habitat was considered to be present on lower areas of ground in the far north of the study area.	**Yes**
Melaleuca biconvexa Biconvex Paperbark	TSC Act - V	May occur in dense stands adjacent to watercourses, in association with other *Melaleuca* species or as an understorey species in wet forest.	**Low** No suitable habitat was considered to be present. No nearly local records.	**Yes**
Melaleuca groveana Grove's Paperbark	TSC Act-V ROTAP – 3RC-	This species is generally found in north eastern NSW and South East Queensland in heath, often in exposed sites and mainly at higher altitude. In Tomaree National Park, *Melaleuca groveana* occurs in closed heath communities on rhyodacite volcanic rock.	**Unlikely** The study area lacked associated geology, soil and vegetation types.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Syzygium paniculatum Magenta Lilly Pilly	TSC Act - E EPBC Act – V ROTAP 3VCi	Occurs in coastal rainforests on sandy soils or stabilised coastal dunes from Jervis Bay to Bulahdelah in NSW.	**Low** Suitable habitat was considered to be present in the more sheltered areas of sclerophyll forest.	**Yes**
Tetratheca juncea Black-eyed Susan	TSC Act-V EPBC Act-V ROTAP - 3VCa	Heath and Dry Sclerophyll Forests on low nutrient soil with a dense understorey of grasses. Is most commonly found associated with species including, *Angophora costata* (Smooth-barked Apple), *Eucalyptus globoidea* (White Stringybark), *Corymbia gummifera* (Red Bloodwood) and *Acacia myrtifolia* (Myrtle Wattle).	**Unlikely** The study area lacked associated soil and vegetation types. No nearby local records (OEH, 2017).	**No**
Prostanthera densa Villous Mintbush	TSC Act - V EPBC Act – V ROTAP – 3VC-	This species is known to occur on clay soils on volcanic hills and on sandy soils occurring as a shallow mantle over volcanic hills. It has been reported generally from sclerophyll forest and shrubland on coastal headlands and near-coastal ranges, chiefly on sandstone. The closest records are likely to occur on Gang Gang Hill, Nelson Bay well to the north of the study area.	**Unlikely** The study area lacked associated geology, soil and vegetation types.	**No**
Asperula asthenes Trailing Woodruff	TSC Act - V ROTAP – 3VC-	Damp Sites, often along riverbanks (DEC, 2006). The major portion of the distribution of this species occurs in the Great Lakes LGA. Populations are known from North Karuah and The Branch areas (Great Lakes Council, 2003).	**Unlikely** The study area lacked associated drainage lines and vegetation types.	**No**
Galium australe Tangled Bedstraw	TSC Act-E	Found in moist gullies of tall forest, *Eucalyptus tereticornis* (Forest Red Gum) forest, coastal Banksia shrubland, and *Allocasuarina nana* heathland.	**Unlikely** This species is unlikely to be present due to the lack of associated vegetation and local records.	**No**
Lindernia alsinoides Noah's False Chickweed	TSC Act-E	Grows in swampy sites in sclerophyll forests and coastal heath.	**Low** Suitable habitat was considered to be present in the south of the study area on the edges of the Swamp Mahogany/Paperbark Forest assemblage. The study area would be considered to be	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			south of the known distribution of this species.	
Chamaesyce psammogeton Sand Spurge	TSC Act-E	This prostrate perennial herb grows on foredunes and exposed sites on headlands.	**Unlikely** No suitable habitat was present.	**No**
Senecio spathulatus Coastal Fireweed	TSC Act-E	Confined to areas of unstabilised sand on coastal dunes.	**Unlikely** No suitable habitat was present.	**No**
Streblus pendulinus Siah's Backbone	EPBC Act - E	Siah's Backbone is found in warmer rainforests, chiefly along watercourses. The altitudinal range is from near sea level to 800 m above sea level. The species grows in well-developed rainforest, gallery forest and drier, more seasonal rainforest.	**Unlikely** No suitable habitat was present.	**No**
Maundia triglochinoides	TSC Act - V	Grows in swamps, creeks or shallow freshwater 30-60cm deep on heavy clay with low nutrients. Is known to occur within drainage channels around Williamtown to the south of the study area.	**Low** The area of wetland contains suitable habitat.	**Yes**
Cynanchum elegans White-flowered Wax Plant	TSC Act – E1 EPBC Act – E ROTAP 3ECi	This species occurs in scattered coastal localities from the QLD-NSW border south to Wollongong. Found in dry, littoral or subtropical rainforest, and occasionally in scrub and woodland from sea level to about 600m ASL. Records are known from Ash Island, Kooragang Wetlands.	**Low** Marginal habitat would be confined to the more sheltered areas of the study area.	**Yes**
Persicaria elatior Tall Knotweed	TSC Act - V EPBC Act – V ROTAP – 3V	Grows in damp sites, especially beside streams, lakes, margins of dams and occasionally in swamp forest.	**Low** Habitat was considered to be present within the lower lying areas of ground containing wetland in the north of the study area. The occurrence of this species is marginalised by the lack of nearby local records.	**Yes**
Zannichellia palustris	TSC Act-E1	Grows in fresh or slightly saline stationary or slowly flowing water.	**Low** Habitat was considered to be present within the lower lying areas of ground containing	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			wetland in the north of the study area. The occurrence of this species is marginalised by the lack of nearby local records.	
Petalura gigantea Giant Dragonfly	TSC Act-E	Permanent wetlands both coastal and upland. Larvae occupy permanent long chambered burrows built under swamps. According to the OEH database this Dragonfly has been recorded within Mambo Swamp on the southern side of Port Stephens in 2006 (OEH, 2017).	**Low-Moderate** Swamps and wetland within the study area contain suitable habitat for this Dragonfly species.	**Yes**
Crinia tinnula Wallum Froglet	TSC Act-V	Shallow acid swamps (temporary / semi-permanent) and associated connecting channels and deeper water holes (permanent) consisting of hard-leafed heaths, shrubs and woodland on coastal plains and dunes and associated sedgelands and swamps in low lying areas collectively known as wallum.	**Moderate** Suitable habitat was found to occur within the area of wetland and swamp forest within the north of the study area.	**Yes**
Uperoleia mahonyi Mahony's Toadlet	TSC Act-E	Inhabits ephemeral and semi-permanent swamps and swales on the coastal fringe of its range. Records occur in heath or wallum habitats almost exclusively associated with leached (highly nutrient impoverished) white sand. This species has also been recorded on more recent Holocene Dunes (Dr Simon Clulow *pers.com*). Commonly associated with acid paperbark swamps, is also known to occur in wallum heath, swamp mahogany-paperbark swamp forest, heath shrubland and Sydney red gum woodland. Recent studies suggest intact vegetation adjacent to and within water bodies is an important habitat feature for this species. Endemic to the mid-north coast of New South Wales (NSW) and to date has been found between Kangy Angy and Seal Rocks.	**High** Suitable habitat was found to occur within the area of wetland and swamp forest within the north of the study area.	**Yes**
Litoria aurea Green and Golden Bell Frog	TSC Act-E EPBC Act-E	This frog species inhabits swamps, lagoons, streams and ponds as well as dams, drains and storm water basins.	**Low** Suitable habitat was found to occur within the area of lower lying wetland within the north of the study area. No nearby local records (OEH, 2017).	**Yes**
Litoria brevipalmata	TSC Act-V	Open Forest, rainforest bordering cleared areas.	**Low**	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Green-thighed Frog			Only marginal habitat was present within the study area for this frog species. No nearby local records (OEH, 2017).	
Mixophyes balbus Stuttering Frog	TSC Act-V EPBC Act-V	Occurs in wet forest regions of south-eastern Queensland, Eastern NSW and Victoria. In late spring, eggs are deposited among leaf litter on the banks of streams and subsequently are washed into the water during heavy rain.	**Unlikely** No suitable habitat was present.	**No**
Mixophyes iteratus Great Barred Frog	TSC Act-E EPBC Act-E	Occurs on forest slopes of the Great Dividing Range, generally between 20-800m A.S.L. It appears to prefer riparian vegetation or other moist vegetation communities, generally on rich organic soils. Deep leaf litter and/or thick cover is necessary for this species. Water quality must be of a high standard, and the species occurs in 1st to 3rd order streams (i.e. 'young' streams), and is absent from ponds and ephemeral pools. Graded banks with undercuts and steep edges are favourable haunts of this frog.	**Unlikely** No suitable habitat was present.	**No**
Caretta caretta Loggerhead Turtle	TSC Act-E EPBC Act-E	Ocean dwellers foraging in deeper water for fish, jellyfish and bottom dwelling animals. The female comes ashore to layer her eggs in a hole dug on the beach in tropical regions during the warmer months.	**Unlikely** No habitat was present.	**No**
Chelonia mydas Green Turtle	TSC Act-V EPBC Act-V	Occurs in shallow seas where there is sufficient light to ensure an abundant growth of marine grasses. When resting this species searches out an appropriate rest area i.e. rock overhang, rocky pothole, which gives some protection from predators.	**Unlikely** No habitat was present.	**No**
Dermochelys coriacea Leatherback Turtle	TSC Act-V EPBC Act-E	The Leatherback Turtle is a pelagic feeder, found in tropical, subtropical and temperate waters throughout the world. It has been recorded feeding in the coastal waters of all Australian States.	**Unlikely** No habitat was present.	**No**
Eretmochelys imbricata Hawksbill Turtle	EPBC Act-V	Hawksbill turtles typically occur in tidal and sub-tidal coral and rocky reef habitats throughout tropical waters, extending into warm temperate areas as far south as northern New South Wales.	**Unlikely** No habitat was present.	**No**
Natator depressus Flatback Turtle	EPBC Act-V	Although found in open seas, they prefer inshore waters and bays where their feeding ground is the shallow, soft-bottomed seabed.	**Unlikely** No habitat was present.	**No**
Hoplocephalus bitorquatus Pale-headed Snake	TSC Act-V	Rainforest to the drier sclerophyll forests.	**Low** Suitable habitat was considered	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			to be present within the study area. There was a lack of local records for this species (OEH, 2017).	
Hoplocephalus stephensii Stephen's Banded Snake	TSC Act-V	Partly arboreal found in wet sclerophyll forest or rainforest.	**Low** Suitable habitat was considered to be present within the study area. There was a lack of local records for this species (OEH, 2017).	**Yes**
Macronectes giganteus Southern Giant Petrel	TSC Act – E EPBC Act-E	The Southern Giant Petrel ranges from deep circumpolar waters from Antarctica across the entire length of the New South Wales coast.	**Unlikely** No suitable habitat was present.	**No**
Macronectes halli Northern Giant Petrel	TSC Act - E	Inhabits subtropical waters in winter and early spring. Potential foraging resources in N.S.W. are regarded as significant during the winter months although representing a small proportion of the total foraging area for this species.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma leucoptera leucoptera Gould's Petrel	TSC Act - E	Lives pelagic life, nests on Cabbage Tree Island.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma neglecta Kermadec Petrel	TSC Act-V	It is a pelagic species inhabiting the subtropical and tropical waters of the Pacific Ocean, rarely reaching mainland.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma nigripennis Black-winged Petrel	TSC Act-V	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Pterodroma solandri Providence Petrel	TSC Act-V	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Calonectris leucomelas Streaked Shearwater	EPBC-Migratory	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Ardenna carneipes Flesh-footed Shearwater	TSC Act-V	Lives pelagic life, nests on Lord Howe Island.	**Unlikely** No suitable habitat was present.	**No**
Puffinus tenuirostris Short-tailed Shearwater	EPBC-Migratory	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Limicola falcinellus Broad-billed Sandpiper	TSC Act-V	Habitat utilised by this species includes tidal mudflats, reefs, salt marshes, freshwater wetlands and sewage farms. Favours muddy	**Unlikely** No suitable habitat was present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		ooze.		
Limosa lapponica Bar-tailed Godwit	EPBC-Migratory	Tidal mudflats, estuaries, sewerage ponds, shallow river margins, brackish or saline inland lakes and flooded pastures (Pizzey & Knight, 2001).	**Unlikely** No suitable habitat was present.	**No**
Limosa limosa Black-tailed Godwit	TSC Act-V	Habitat utilised by this species includes tidal mudflats, river edges, sandy beaches, brackish swamps as well as the shallows of lakes, reservoirs and sewage farms.	**Unlikely** No suitable habitat was present.	**No**
Arenaria interpres Ruddy Turnstone	EPBC-Migratory	Tidal reefs and pools; weed-covered rocks; pebbly, shelly and sandy shores with stranded seaweed; mudflats; occasionally inland shallow waters; sewage ponds and open or ploughed ground.	**Unlikely** No suitable habitat was present.	**No**
Xenus cinereus Terek Sandpiper	TSC Act-V	Tidal Mudflats, estuaries, shores, reefs and coastal swamps.	**Unlikely** No suitable habitat was present.	**No**
Heteroscelus brevipes Grey-tailed Tattler	EPBC-Migratory	Estuaries, tidal mudflats, mangroves, wave-washed rocks, and reefs; shallow river margins, coastal and inland.	**Unlikely** No suitable habitat was present.	**No**
Sterna albifrons Little Tern	TSC Act - E	Little Terns nest only on or near the coast in N.S.W. The typical features of the nesting area are a sandy substrate, flat or gently sloping topography, abundant shells and pebbles and little vegetation.	**Unlikely** No suitable habitat was present.	**No**
Sterna fuscata Sooty Tern	TSC Act-V	A pelagic species, does not nest in the area.	**Unlikely** No suitable habitat was present.	**No**
Actitis hypoleucos Common Sandpiper	EPBC-Migratory	Shallow pebbly, muddy or sandy edges of rivers and streams, coastal and inland; dams, lakes, sewage ponds, margins of tidal rivers, waterways in mangroves or saltmarsh; mudflats; rocky or sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Calidris acuminata Sharp-tailed Sandpiper	EPBC-Migratory	Tidal mudflats, saltmarshes, mangroves; shallow fresh, brackish or saline inland wetlands; sewage ponds and irrigated pastures.	**Unlikely** No suitable habitat was present.	**No**
Calidris canutus Red Knot	EPBC-Migratory	Tidal mudflats, sandflats, beaches, saltmarshes, flooded pastures, ploughed lands.	**Unlikely** No suitable habitat was present.	**No**
Calidris ferruginea Curlew Sandpiper	TSC Act-E EPBC-Migratory	Tidal mudflats; saltmarsh; fresh, brackish or saline wetlands; sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Calidris ruficollis Red-necked Stint	EPBC-Migratory	Tidal mudflats; saltmarsh; fresh, brackish or saline wetlands; sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Calidris tenuirostris Great Knot	TSC Act-V	Inhabits beaches, coastal mudflats, bay shores, estuarine environments; sometimes freshwater wetlands.	**Unlikely** No suitable habitat was present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Tringa stagnatilis Marsh Sandpiper	EPBC-Migratory	Salt; fresh, brackish or saline wetlands; sewage ponds, mangroves, tidal flats and estuaries.	**Unlikely** No suitable habitat was present.	**No**
Numenius madagascariensis Eastern Curlew	EPBC-Migratory	Estuaries, tidal mudflats, sandspits, saltmarshes, mangroves; occasionally fresh or brackish lakes.	**Unlikely** No suitable habitat was present.	**No**
Numenius minutus Little Curlew	EPBC-Migratory	Dry grasslands, floodplains, margins of drying swamps; tidal mudflats, crops and sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Numenius phaeopus Whimbrel	EPBC-Migratory	Estuaries, tidal flats, coral cays, exposed reefs, flooded paddocks, sewage ponds and lawns.	**Unlikely** No suitable habitat was present.	**No**
Charadrius bicinctus Double-banded Plover	EPBC-Migratory	Wide beaches, tidal mudflats, saltmarsh, sparsely vegetated margins of shallow saline and freshwater.	**Unlikely** No suitable habitat was present.	**No**
Charadrius leschenaultii Greater Sand-plover	TSC Act-V	Inhabits sheltered bays, harbours and estuaries with large intertidal sandflats mudflats or bare paddocks.	**Unlikely** No suitable habitat was present.	**No**
Charadrius mongolus Lesser Sand-plover	TSC Act-V	Inhabits sheltered bays, harbours and estuaries with large intertidal sandflats or mudflats.	**Unlikely** No suitable habitat was present.	**No**
Pluvialis fulva Pacific Golden Plover	EPBC-Migratory	Estuaries, tidal mudflats, saltmarshes, mangroves; rocky reefs, margins of shallow open inland swamps, sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Pluvialis squatarola Grey Plover	EPBC-Migratory	Mudflats, saltmarsh, tidal reefs and estuaries.	**Unlikely** No suitable habitat was present.	**No**
Diomedea antipodensis Antipodeam Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Diomedea gibsoni Gibson's Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche bulleri Buller's Albatross	EPBC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta cauta Shy Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta salvini Salvin's Albatross	EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta steadi White-capped Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche melanophris impavida Campbell Albatross	EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**

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Haematopus fuliginosus Sooty Oystercatcher	TSC Act-V	Prefer rocky intertidal shorelines and sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Haematopus longirostris Pied Oystercatcher	TSC Act-E	Prefer rocky intertidal shorelines and sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Esacus neglectus Beach Stone-Curlew	TSC Act–E4A	Inhabits undisturbed sandy beaches, especially those with extensive mangrove-backed sandflats, mudflats or reefs exposed at low tide. It has also been recorded utilising cane fields that are located in proximity to tidal areas.	**Unlikely** No suitable habitat was present.	**No**
Gallinago hardwickii Latham's Snipe	EPBC Act-M	Utilises a variety of habitats, such as soft wet ground or shallow water with tussock and other green and dead vegetation, and scrub or open wetland from sea-level to alpine bogs (Pizzey & Knight, 2001).	**Low** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Rostratula benghalensis australis Australian Painted Snipe	TSC Act-E EPBC Act-V & M	Margins of swamps and streams, chiefly those covered with low and stunted vegetation.	**Low** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Botaurus poiciloptilus Australasian Bittern	TSC Act-E EPBC Act-E	Favours permanent fresh-waters dominated by sedges, rushes, reeds or cutting grasses (eg. Phragmites, Scirpus, Eleocharis, Juncus, Typha, Baumea and Gahnia).	**Low - Moderate** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Ixobrychus flavicollis Black Bittern	TSC Act-V	Near water in mangroves and other trees, often forming only a narrow fringe of cover.	**Low** Suitable habitat was present around areas of freshwater wetlands in the east of the study area.	**Yes**
Ardea alba Great Egret	EPBC Act-M	Inhabits shallows of rivers, larger dams, freshwater wetlands and irrigation areas.	**Low - Moderate** Suitable habitat was present around areas of freshwater wetlands in the east of the study area.	**Yes**
Ardea ibis	EPBC Act-M	Inhabits stock paddocks, pastures, croplands, wetlands and drains.	**High – Recorded within the**	**No – Not listed**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Cattle Egret			**study area.** Suitable habitat was present for this species within the area of pasture/Grassland in the north of the study area.	**under TSC Act. Assessed in Section 11.**
Ephippiorhynchus asiaticus Black-necked Stork	TSC Act-E	Inhabits swamps associated with river systems and large permanent pools but sometimes appears on the coast or in estuaries. It has also been recorded on farm dams and sewage treatment ponds.	**Unlikely** No habitat was considered to be present due to the lack of larger areas of permanent waterbodies.	**No**
Irediparra gallinacea Comb-crested Jacana	TSC Act-V	Inhabits mostly deep permanent freshwater wetlands, which are abundant with floating aquatic vegetation that forms dense mats or rafts on the surface of the water (eg. *Nymphaeaceae, Myriophyllum lacifolium, Marsilea* and *Riccia*).	**Unlikely** No habitat was considered to be present due to the lack of deep freshwater and floating aquatic vegetation.	**No**
Turnix maculosa Red-backed Button-quail	TSC Act-V	Grasses, sedges near water, grassy woodlands, rainforest edges; black soil plains, spinifex, cereal crops and gardens.	**Unlikely** Study area occurs below the known distribution of this species.	**No**
Burhinus grallarius Bush Stone-curlew	TSC Act-E	This species inhabits dry open forest and woodland with an open grassy understorey that has not been overgrazed. It prefers woodland with many fallen branches where it roosts during the day. It has also been known to utilise coastal scrub, mangrove fringes, golf courses and plantations. This species has been recorded within the adjoining property (Lot 3) to the east (NPWS, 2011).	**Low-moderate** Suitable habitat was present for this species within the more open areas of woodland.	**Yes**
Ptilinopus magnificus Wompoo Fruit-Dove	TSC Act-V	This frugivorous Rainforest specialist inhabits the canopy of Sub-tropical, Warm-temperate and Littoral Rainforests. Favoured feed trees include Figs, Laurels, Myrtles and native Tamarind. The females lay one egg on a flimsy platform of vine tendrils on a slender horizontal branch.	**Low** Areas of secondary habitat were present within the study area.	**Yes**
Ptilinopus regina Rose Crowned Fruit-dove	TSC Act-V	Inhabits rainforest, though it also frequents nearby drier forests as well as mangroves. It usually feeds on Figs or other fruit and berry-bearing trees.	**Low** Areas of secondary habitat were present within the study area.	**Yes**
Ptilinopus superbus Superb Fruit Dove	TSC Act-V	Lives mainly in Rainforest but will feed in adjacent Mangroves or Eucalypt forest, venturing into coastal habitats. The nest is a platform	**Low** Areas of secondary habitat were	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		built in a small tree on a horizontal fork situated in Open Forest at the edge of scrub.	present within the study area.	
Lathamus discolor Swift Parrot	TSC Act-E EPBC Act- Crit-E & M	Open Forest to Woodland, also street trees and in parks and gardens, winter flowering eucalypts for feeding. This species nests in Tasmania during the summer months.	**Low – Moderate** Suitable foraging habitat was present in the form of winter flowering species particularly *Eucalyptus robusta* (Swamp Mahogany).	**Yes**
Neophema pulchella Turquoise Parrot	TSC Act-V	Lives on the edges of Eucalypt woodland adjoining clearings and on timbered ridges and creeks in farmland. It has also been recorded utilising roadside verges and orchards. Nests in small hollow branches of Eucalypts.	**Low** Only marginal habitat was considered to be present within the study area. This parrot would be an infrequent visitor to the local area.	**Yes**
Glossopsitta pusilla Little Lorikeet	TSC Act-V	Tall Open Forests, woodlands, orchards, parks and street trees.	**High – recorded on site.** Suitable foraging and nesting habitat was considered to be present over much of the study area.	**Yes**
Calyptorhynchus lathami Glossy Black-Cockatoo	TSC Act-V	Lowland coastal forests, dense mountain forests, semi-arid woodland and trees bordering watercourses, with (Allo)Casuarina trees for foraging.	**Low** Only marginal transitory habitat is present within the study area. A small number of *Casuarina glauca* (Swamp Oak) trees a suitable foraging species was present.	**Yes**
Callocephalon fimbriatum Gang-gang Cockatoo	TSC Act-V	Tall montane forests and woodlands in mature wet sclerophyll forests. Requires hollows in which to breed between October and January. This Cockatoo species would be an infrequent visitor to the local area.	**Low** Suitable foraging habitat was present. This species is unlikely to nest within the local area.	**Yes**
Apus pacificus Fork-tailed Swift	EPBC Act-M	Inhabits the airspace over open country from semi deserts to coasts.	**Moderate** Due to the non-specific habitat requirements habitat was present	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			within airspace above the study area.	
Hirundapus caudacutus White-throated Needletail	EPBC Act-M	Inhabits the airspace above forests, woodlands, farmlands, plains, lakes, coasts and towns.	**Moderate** Due to the non-specific habitat requirements habitat was present within airspace above the study area.	**No**
Monarcha melanopsis Black-faced Monarch	EPBC Act-M	Utilises a range of habitats including rainforests, eucalypt woodlands, coastal scrubs (Pizzey & Knight, 2001).	**Low-Moderate** Suitable habitat was present over the majority of the study area.	**No**
Monarcha trivirgatus Spectacled Monarch	EPBC Act-M	Wet forests, thickly wooded gullies, waterside vegetation and mangroves.	**Moderate** Suitable habitat was present within more thickly wooded parts of the study area.	**No**
Merops ornatus Rainbow Bee-eater	EPBC Act-M	Inhabits areas such as open woodlands with sandy soils, sand ridges, riverbanks, beaches, dunes, cliffs and rainforests.	**Low-Moderate** Suitable foraging habitat was present over the majority of the study area. No preferred nesting habitat was present.	**No**
Rhipidura rufifrons Rufous Fantail	EPBC Act-M	Utilises a range of habitats including rainforests, wet sclerophyll forests, monsoon forests, scrubs, mangroves, watercourses, parks and gardens. During migration this species also utilises farms, street trees and buildings (Pizzey & Knight, 2001).	**High – recorded within study area.** Suitable foraging and nesting habitat was considered to be present.	**No**
Epthianura albifrons White-fronted Chat	TSC Act-V	Occurs mostly in the southern half of NSW, occurring in damp open habitats along the coast, and near waterways in the western part of the state	**Low** Marginal habitat was present within the north of the study area.	**Yes**
Petroica boodang Scarlet Robin	TSC Act-V	The Scarlet Robin breeds in drier eucalypt forests and temperate woodlands, often on ridges and slopes, within an open understorey of shrubs and grasses and sometimes in open areas. Abundant logs and coarse woody debris are important structural components of its	**Low** Only marginal habitat was considered to be present within areas of open forest. This	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		habitat. In autumn and winter it migrates to more open habitats such as grassy open woodland or paddocks with scattered trees.	species is more commonly found inland from the coast.	
Petroica phoenicea Flame Robin	TSC Act-V	Breeds in upland tall moist eucalypt forests and woodlands, often on ridges and slopes and prefers clearings or areas with open understoreys. In winter, birds migrate to drier more open habitats in the lowlands including dry forests, open woodlands and in pastures and native grasslands, with or without scattered trees.	**Low** Only marginal habitat was considered to be present within areas of open forest. This species is more commonly found inland from the coast.	**Yes**
Climacteris picumnus victoriae Brown Treecreeper	TSC Act-V	Occupies Eucalypt woodlands, particularly open woodlands lacking a dense understorey, River Red Gums on watercourses and around lakeshores. It is sedentary and nests in tree hollows within permanent territories.	**Unlikely** This Treecreeper species is more commonly found inland from the coast and would be unlikely to be present within the study area.	**No**
Anthochaera phrygia Regent Honeyeater	TSC Act-Crit-E EPBC Act- Crit-E & M	Temperate woodlands and open forest, including forest edges, preferring to forage on large-flowered Eucalypts. Was recorded in June 2014 feeding on flowering specimens of *Eucalyptus robusta* (Swamp Mahogany) at Tanilba Bay Sailing Club (Port Stephens Examiner, 2014).	**Low-Moderate** Suitable foraging habitat was present in the form of flowering myrtaceous species particularly the winter flowering *Eucalyptus robusta* (Swamp Mahogany).	**Yes**
Daphoenositta chrysoptera Varied Sittella	TSC Act-V	Open eucalypt woodland/forest, mallee, inland acacia, coastal tea-tree scrubs, golf courses, orchards and parks.	**High** Suitable foraging habitat and nesting habitat was present.	**Yes**
Melithreptus gularis gularis Black-chinned Honeyeater	TSC Act-V	Usually found on the western side of the Great Dividing Range in dry sclerophyll forests and woodlands containing box-ironbark associations and River Red Gum. In the Hunter Valley this species is known to utilise drier coastal woodlands. Usually found in open woodlands.	**Low** Only marginal habitat was considered to be present for this woodland bird.	**Yes**
Pomatostomus temporalis temporalis Grey-crowned Babbler	TSC Act-V	Open forest, woodland, scrubland, farmland and outer suburbs. Prefers woodlands with regenerating trees, tall shrubs, and an intact ground cover of grass and forbs. One old record from 1978 exists within the Worimi Conservation Areas in the vicinity of	**Low** Marginal habitat occurs within the cleared grassy area with scattered trees in the far north-	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		Boyces Track.	east of the study area.	
Dasyornis brachypterus Eastern Bristlebird	TSC Act-E EPBC Act-E	Habitat is characterised by dense, low vegetation including heath and open woodland with a heathy understorey; in northern NSW occurs in open forest with tussocky grass understorey.	**Unlikely** No known local records.	**No**
Circus assimilis Spotted Harrier	TSC Act-V	Occurs throughout the Australian mainland, except in densely forested or wooded habitats of the coast, escarpment and ranges. Occurs in grassy open woodland including acacia and mallee remnants, inland riparian woodland, grassland and shrub steppe. It is found most commonly in native grassland, but also occurs in agricultural land, foraging over open habitats including edges of inland wetlands.	**Unlikely** This species is not usually associated with forested habitat of the coast.	**No**
Pandion cristatus Eastern Osprey	TSC Act-V	Open and swamp forest adjacent to the coast or estuaries, fishing mainly in brackish or salt water. This species is known to inhabit the Port Stephens area.	**Low** Hunting habitat was absent. Large trees within the study area may provide suitable nesting habitat.	**Yes**
Lophoictinia isura Square-tailed Kite	TSC Act-V	The Square-tailed Kite inhabits Open Forests and Woodlands, particularly those on fertile soils with abundant passerines. They may also range into nearby open habitats but not into extensive treeless regions.	**Moderate** Due to the generalist habitat requirements of this species habitat was considered to be present.	**Yes**
Erythrotriorchis radiatus Red Goshawk	TSC Act-E4A EPBC Act - V	In NSW, preferred habitats include mixed subtropical rainforest, *Melaleuca* swamp forest and riparian *Eucalyptus* forest of coastal rivers.	**Low** Suitable habitat was present.	**Yes**
Hieraaetus morphnoides Little Eagle	TSC Act-V	The Little Eagle occupies habitats rich in prey within open eucalypt forest, woodland or open woodland. Sheoak or acacia woodlands and riparian woodlands of interior NSW are also used (Marchant and Higgins 1993; Aumann 2001a). For nest sites it requires a tall living tree within a remnant patch, where pairs build a large stick nest in winter and lay in early spring.	**Moderate** Due to the generalist requirements of this species habitat was considered to be present within the site.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Haliaeetus leucogaster White-bellied Sea Eagle	TSC Act-V EPBC Act-M	Occupies habitat characterised by the presence of large areas of open water and feeds opportunistically on a variety of fish, birds, reptiles, mammals and crustaceans. The nests are built in a variety of sites including tall trees, bushes, mangroves, cliffs, rocky outcrops, caves, crevices, on the ground or even in artificial structures.	**High – Recorded flying over study area.** Nesting habitat was present. No preferred hunting habitat was present.	**Yes**
Ninox connivens Barking Owl	TSC Act-V	This species is found in forest and woodland, encountered most commonly in savanna and paperbark woodlands. It sometimes roosts in rainforests, but it requires the more open country for hunting and hollow Eucalypts for breeding.	**Moderate** Suitable hunting and limited roosting habitat was present within the study area.	**Yes**
Ninox strenua Powerful Owl	TSC Act-V	Inhabits a wide range of vegetation types from wet Eucalypt forests with a Rainforest understorey to Dry Open Forests and Woodlands. The species has been recorded utilising disturbed habitats such as exotic pine plantations and large trees in parks and gardens. Powerful Owls nest in a slight depression in the wood-mould on the base of a cavity in a large old tree, sometimes in excess of 25 metres above the ground.	**High – Likely pellet found within the study area.** Suitable hunting, roosting and nesting habitat was present.	**Yes**
Tyto longimembris Eastern Grass Owl	TSC Act-V	This species roost and nest on the ground, in crops or in thick grass tussock often associated with swamps.	**Low** Marginal hunting and roosting habitat was present in the north of the study area.	**Yes**
Tyto novaehollandiae Masked Owl	TSC Act-V	A range of wooded habitats that contain mature trees with large hollows for roosting and nesting, and more open areas for hunting.	**Moderate-High** Suitable hunting, roosting and nesting habitat was present.	**Yes**
Tyto tenebricosa Sooty Owl	TSC Act-V	Prefers dense dimly-lit forests, inhabiting pockets of rainforest and wet sclerophyll forest mainly in mountainous areas, often in south-east facing gullies.	**Unlikely** Due to the lack of rainforest and tall wet sclerophyll forest the Sooty Owl would be considered unlikely to be present.	**No**
Planigale maculata Common Planigale	TSC Act-V	In NSW it is found along the coastal strip, occupying a variety of habitats ranging from rainforest, wet and dry sclerophyll forests to grasslands, marshlands and rocky areas.	**Low** Suitable habitat was present within the study area. Few records for this species are known from the locality.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Dasyurus maculatus maculatus Tiger Quoll	TSC Act-V	Inhabits sclerophyll forests, rainforests and coastal woodlands. Nests are made in rock caves and hollow logs or trees, and basking sites are usually found nearby.	**Moderate - High** Suitable habitat was present over a large portion of the study area.	**Yes**
Phascogale tapoatafa Brush-tailed Phascogale	TSC Act-V	Sparsely distributed outside the semi-arid zone in dry sclerophyll forest and monsoonal forest and woodland.	**Low** Foraging and nesting habitat was present over much of the study area. Locally this species prefers rough barked (Woodland containing Ironbark species).	**Yes**
Phascolarctos cinereus Koala	TSC Act-V EPBC Act – V (NSW & Qld)	Coastal woodland and open forest containing suitable food trees.	**High – Some evidence of Koala activity.** Preferred feed tree, *Eucalyptus robusta* (Swamp Mahogany) was present within the north of the study area.	**Yes**
Macropus parma Parma Wallaby	TSC Act-V	Preferred habitat is moist eucalypt forest with thick, shrubby understorey, often with nearby grassy areas, rainforest margins and occasionally drier eucalypt forest.	**Unlikely** Suitable habitat was considered to be present, however due to the lack of local records this species would be unlikely to be present.	**No**
Petrogale penicillata Brush-tailed Rock-wallaby	TSC Act – E1 EPBC Act – E	Found in steep rocky sites in sclerophyll forests with a grassy understorey.	**Unlikely** No suitable habitat was present.	**No**
Aepyprymnus rufescens Rufous Bettong	TSC Act-V	Occupies a variety of habitats ranging from coastal Eucalypt forests to tall Wet Sclerophyll Forests along the east coast of Australia. West of the Great Dividing Range it occupies Low Open Woodland. It tends to favour those areas where there is a sparse or grassy understorey.	**Low** Suitable habitat was considered to be present. Due to the absence of local records the occurrence of this species would be low.	**Yes**
Potorous tridactylus tridactylus Long-nosed Potoroo	TSC Act-V	This species is known from a variety of habitats, including Rainforest, Open Forests and Woodlands with dense groundcover, and dense, wet coastal heathlands. Soft (often sandy) substrates are preferred by this species.	**Low - Moderate** Suitable habitat was available within the study area. Records known from Williamtown (RPS Harper Somers O'Sullivan,	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			2009).	
Cercartetus nanus Eastern Pygmy-possum	TSC Act-V	Feeds mostly on the pollen and nectar from banksias, eucalypts and understorey plants and will also eat insects, seeds and fruit. Hollow bearing trees are favoured for shelter and nesting although spherical nests constructed of short shredded bark have been found between the wood and bark of eucalypts. This species has been recorded north of Fern Bay within Coastal Sand Blackbutt Forest (Umwelt, 2004).	**Low - Moderate** Foraging and nesting habitat was present.	**Yes**
Petaurus australis Yellow-Bellied Glider	TSC Act-V	This species occupies tall, mature wet eucalypt forest.	**Low** Foraging and nesting habitat was present. No known local records.	**Yes**
Petaurus norfolcensis Squirrel Glider	TSC Act-V	Dry sclerophyll forests and woodlands with exudates for foraging and hollows for nesting.	**High – Recorded within Study Area.** Foraging and nesting habitat was present over a large portion of the study area.	**Yes**
Pseudomys gracilicaudatus Eastern Chestnut Mouse	TSC Act-V	Found in heathland, wet heathland and swamps.	**Low** Only marginal habitat was present. No known local records.	**Yes**
Psuedomys novaehollandiae New Holland Mouse	EPBC Act – E	Known to inhabit open heathlands, open woodlands with a heathland understorey and vegetated sand dunes.	**Moderate - High** Suitable habitat was present within the more open sandy vegetated parts of the study area.	**No – Not listed under TSC Act. Assessed in Section 11.**
Pteropus poliocephalus Grey-headed Flying-Fox	TSC Act-V EPBC Act-V	Wet and Dry Sclerophyll Forests, Rainforest, Mangroves and Paperbark swamps and Banksia Woodlands.	**High – Recorded within study area.** Seasonal foraging habitat was present over the majority of the study area. Roosting habitat was also likely to be present.	**Yes**
Syconycteris australis	TSC Act-V	Occurs within coastal areas of northeast NSW and eastern	**Low**	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Common Blossom-bat		Queensland. Often roost in littoral rainforest and feed on flowers in adjacent heathland and paperbark swamps. Has been recorded just north of Hawks Nest (Wildthing Environmental Consultants, 2012).	Suitable habitat was present within the study area. The study area would be considered to be outside the southern limit of the distribution of this species.	
Kerivoula papuensis Golden-tipped Bat	TSC Act-V	Found in rainforest and adjacent wet and dry sclerophyll forest up to 1000m. It is also recorded in tall open forest. This species roosts mainly in abandoned hanging Yellow-throated Scrubwren and Brown Gerygone nests, also in tree hollows, dense foliage and epiphytes; located in rainforest gullies on small first and second-order streams. There is a paucity of local record of this species.	**Low** Suitable hunting and roosting habitat was present.	**Yes**
Saccolaimus flaviventris Yellow-bellied Sheathtail-bat	TSC Act-V	This microchiropteran bat species occupies a range of habitats including eucalypt forests, Mallee or open country. Roosts in tree hollows, animal burrows, dry clay cracks, under rock slabs and in abandoned Sugar Glider nests.	**Moderate** Suitable hunting and roosting habitat was present.	**Yes**
Mormopterus norfolkensis East Coast Freetail-bat	TSC Act-V	This species appears to live in Sclerophyll Forests and Woodland. Roosts in tree hollows or under loose bark.	**High** Suitable hunting and roosting habitat was present.	**Yes**
Falsistrellus tasmaniensis Eastern False Pipistrelle	TSC Act-V	Inhabits sclerophyll forests from the Great Divide to the east coast. A preference has been noted for wet habitats where trees are more than 20m high. It has been observed roosting in holes and hollow trunks of Eucalypts.	**High – Recorded within the study area.** Suitable hunting and roosting habitat was present.	**Yes**
Miniopterus australis Little Bentwing-bat	TSC Act-V	Tropical Rainforest to warm-temperate Wet and Dry Sclerophyll Forest; caves or similar structures for roosting.	**High – recorded within the study area.** Suitable hunting habitat was present. The study area lacked preferred roosting habitat.	**Yes**
Miniopterus schreibersii oceanensis Large Bentwing-bat	TSC Act-V	Wet and Dry Tall Open Forest, Rainforest, Monsoon Forest, Open Woodland, Paperbark Forests and Open Grasslands; caves or similar structures for roosting. It occasionally uses tree hollows.	**High – recorded within the study area.** Suitable hunting habitat was present. No preferred roosting habitat was present.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Myotis macropus Eastern Myotis	TSC Act-V	Various habitats of the coast and adjacent ranges with suitable waterbodies for hunting; caves or similar structures for roosting. It occasionally uses tree hollows.	**Moderate** Suitable hunting habitat was present on site.	**Yes**
Scoteanax rueppellii Greater Broad-nosed Bat	TSC Act-V	Tree-lined creeks, woodland/clearing ecotones and rainforest creeks, roosting mainly in tree hollows.	**High – Possible calls recorded during bat call survey.** Suitable hunting and roosting habitat was present.	**Yes**
Chalinolobus dwyeri Large-eared Pied Bat	TSC Act-V	This species has been found occupying Dry Sclerophyll Forest and Woodland. Roosts in caves, abandoned mud-nests of Fairy Martins and mine tunnels.	**Low** Suitable hunting habitat was present. No roosting habitat was available.	**Yes**
Vespadelus troughtoni Eastern Cave Bat	TSC Act-V	The Eastern Cave Bat roosts in caves and occurs in wet/dry sclerophyll forests to the semi-arid zone. It has been found roosting in small groups in sandstone overhangs, in mine tunnels and occasionally buildings.	**Low** Suitable hunting habitat was present. No roosting habitat was available.	**Yes**
Emu population in the NSW North Coast Bioregion and Port Stephens LGA.		Predominantly open habitats, including plains, grasslands, woodlands and scrubs, and may occur occasionally in forest.	**Low** Suitable habitat was present. Few local records.	**Yes**

APPENDIX VI: Field Guide for Reported Shell from Previous 2014 Field Survey

Shell species noted in 2014 and 2019 ACHAR survey

Pipi (Plebidonax deltoides)

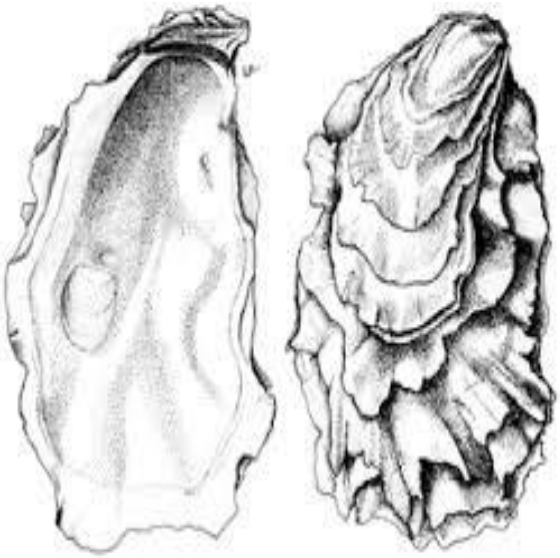


Oyster (Ostrea angasi)



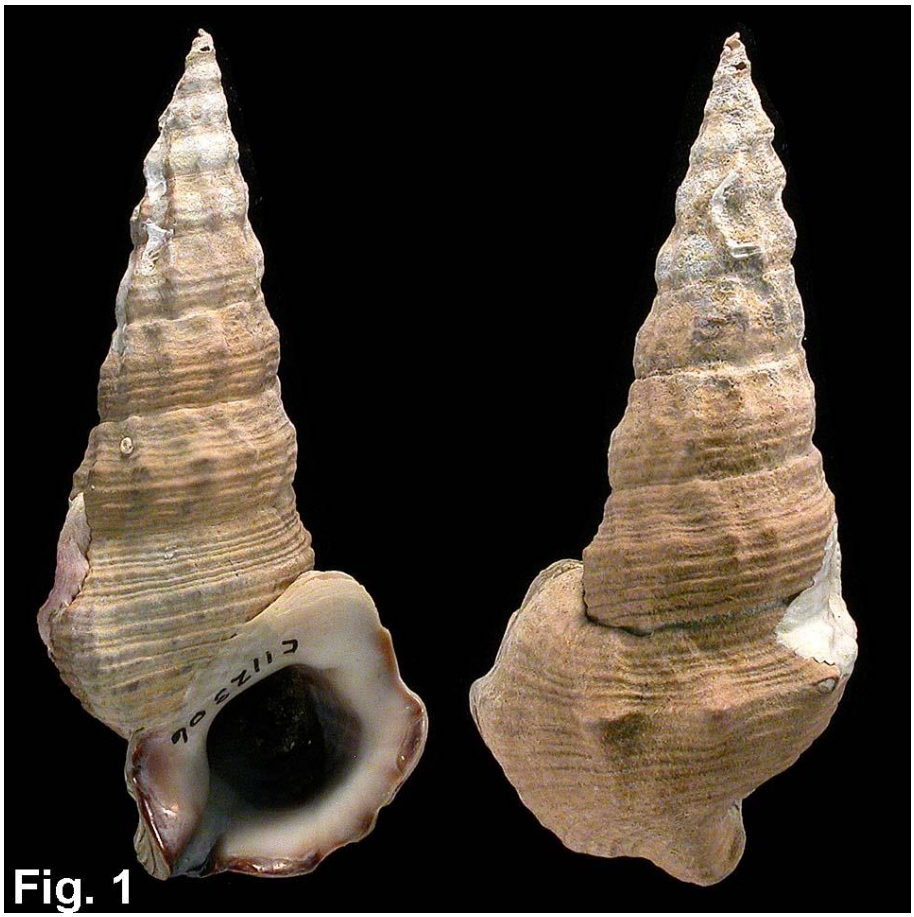


Oyster (Saccostrea glomerate)





Mud Whelk (Pyrazus ebeninnus)



Cockle (Anadara trapezia)



APPENDIX VII: Tattersall Lander Proposed Mine Development Plans

Annex T – Proposed Mine Layout Plan



Report

Bobs Farm Sand Mine Test Excavation

Archaeological Report

Ammos Resource Management Pty Ltd

6 August, 2020
Rev 3 (Final)

Report Details

Bobs Farm Sand Mine Test Excavation - Archaeological Report

Job #: J0190046, Folder #: F16032, Revision: 3 (Final), Date: 6 August, 2020

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Prepared For

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History

Date	Revision	Comments
15 June, 2020	0	Report - external review
30 June, 2020	1	Report - external review
8 July, 2020	2	Report sent for client review
8, July, 2020	2	Report sent for RAP review
6 August, 2020	3	Final Report sent to Client

Endorsements

Function	Signature	Name and Title	Date
Prepared by		Jake Brown Archaeologist	6 August, 2020
Checked by and Authorised for Release by		Dr Rod Bennison Lead Environmental Scientist	6 August, 2020

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EXECUTIVE SUMMARY

Advitech Pty Limited (trading as Advitech Environmental) was engaged by Tattersall Lander on behalf of Ammos Resource Management Pty Ltd to undertake archaeological test excavations of the proposed sand mine site identified at Bobs Farm, NSW. This assessment relates to the Test Excavation and further field assessment associated with AHIP C0005692.

The proposed subsurface testing is to further assess the development area with the assistance of the local Aboriginal community. This test excavation aims to supplement the findings of the Aboriginal Cultural Heritage Assessment compiled by AECOM in 2014. The assessment process will consist of community participation in the field and data gathering about the potential cultural significance of the area. Previous data gathered will be used to assist in targeting specific areas of investigation.

The test excavation will be the predominant assessment method as per the recommendations of further investigations of the ridge 1 transgressive dune sheet. This includes two previously recorded sites BF-SC4-14 and BF-SC5-14 which were classified as shell scatters; however, additional test pits were opened across the broader Project area to obtain a comprehensive site context and to inform the management measures in an ACHMP as required. These additional test pit locations have been established following an Aboriginal Cultural Heritage Assessment field survey, and in consultation with Registered Aboriginal Parties (RAPs) in the field.

The site, as previously documented, has a number of disturbances, particularly agricultural from the 1990s onward. The areas investigated were discovered in 2014 AECOM survey (AECOM 2015a). In the corresponding years some if not all of the locations appear to have received lower use and maintenance with pit 1 and pit 4 locations showing vast regrowth of vegetation and general disuse such as trees across tracks. This has affected the distribution of where the test excavation occurred due to increased visibility; visibility and ground exposure are extremely low off disturbed areas.

During the excavation, shell was found along tracks, predominantly on the ridge near test pit 2. However, previously and less frequently (one example) of shell was located on the southern side on the lower / waning slope of the dune and vegetated area. This was typical across the site during all recorded site expeditions. Typically, items are isolated on sandy exposed soil/tracks or on exposed soil in lightly revegetated areas, as well as in the orchard area. Only one test pit (Number 2 – 38-5-0352) uncovered subsurface shell. In spit 2 – 15 cm two pieces of shell where located. They were discovered during the sieving process. One piece was a cockle shell fragment and the second was a fragment with a small inner spiral, possibly from a Mud Whelk. In spit 3 – 25 cm one piece of cockle was located within the pit during the excavation in the northern centre half and one cockle fragment was located during the sieving.

The shell located in Pit 2 was relocated on site and reburied under as per requirement 26 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW.* The location is recorded the same as Test Pit 1 (**Table 14** and **Figure 7**). Photographs of the reburial location and storage techniques were conducted in accordance with the Code of *Practice for Archaeological Investigation of Aboriginal Objects in NSW* are in **Appendix III.**

Based on the reburial location and current plans of development, it is likely this location is within the buffer zone surrounding the sand mine. It is suggested that the ACHMP finalises long term storage of any salvaged items including these items and arrangements be put in place if they need to be relocated.

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APPENDICES

APPENDIX I

Consultation

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Test Excavation Recording Sheets

APPENDIX III

Test Excavation Photographs

APPENDIX IV

Aboriginal Site Impact Recording Form (ASIRF)

APPENDIX V

Updated Site Plans 7 July, 2020

1. INTRODUCTION

Advitech Pty Limited (trading as Advitech Environmental) was engaged by Tattersall Lander on behalf of Ammos Resource Management Pty Ltd (the proponent) to undertake archaeological test excavations of previously identified shell scatters within the proposed sand mine site located at Bobs Farm, NSW. This assessment relates to the test excavation field work. Under AHIP C0005692

It should be noted that this report was prepared by Advitech Pty Limited for Ammos Resource Management Pty Ltd ('the customer') in accordance with the scope of work and specific requirements agreed between Advitech and the customer. This report was prepared with background information, terms of reference and assumptions agreed with the customer. The report is not intended for use by any other individual or organisation and as such, Advitech will not accept liability for use of the information contained in this report, other than that which was intended at the time of writing.

1.1 Proponent details

Ammos Resource Management Pty Ltd

1.2 Proposed Development

The proposed Bobs Farm sand mine (SSD_6395) is located on approximately 57 hectares of land (Lot 254 DP 753204, Lot 51 DP 1015671 and Lot 10 DP 1071458) located approximately 25 km north east of Newcastle on the Tomaree Peninsula. Further details of the development are provided in **Section 2**.

1.3 Purpose of Assessment

The proposed subsurface testing is to further assess the development area to determine if cultural materials are present with the assistance of the local Aboriginal community. This test excavation aims to supplement the findings of the Aboriginal Cultural Heritage Assessment compiled by AECOM in 2014. The assessment process will consist of community participation in the field and data gathering about the potential cultural significance of the area. Previous data gathered will be used to assist in targeting specific areas of investigation.

The test excavation will be the predominant assessment method as per the recommendations of further investigations of the ridge 1 transgressive dune sheet. This includes two previously recorded sites BF-SC4-14 and BF-SC5-14 which were classified as shell scatters; however, additional test pits were opened across the broader project area to obtain a comprehensive site context and to inform the management measures in an ACHMP as required. These additional test pit locations have been established following an Aboriginal Cultural Heritage Assessment field survey, and in consultation with the Registered Aboriginal Parties (RAPs) in the field.

1.4 Scope of Works

This report will be appended to an Environmental Impact Statement (EIS) which must comply with the requirements of Clause 6 and 7 of the Environmental Planning and Assessment Regulation 2000, and which addresses environmental considerations identified in the Secretary's Environmental Assessment Requirements (SEARs) (SSD 6395) relevant to heritage. The SEARs state that the heritage assessment should be undertaken with a view to the:

- an assessment of the potential impacts on Aboriginal heritage (cultural and archaeological), including evidence of appropriate consultation with relevant Aboriginal communities/parties and documentation of the views of these stakeholders regarding the likely impact of the

development on their cultural heritage…, having regard to the relevant policies and guidelines.

Further, in regards to Aboriginal heritage, Heritage NSW (Formerly DPIE) provided recommendations to inform the SEARs:

- 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 the EIS. This may include the need for surface survey and test excavation. The identification of cultural heritage values should be guided by the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011) and consultation with Heritage NSW regional officers.
- Where Aboriginal cultural heritage values are identified, consultation with Aboriginal people must be undertaken and documented in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW). The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS.
- Impacts on Aboriginal cultural heritage values are to be assessed and documented in the EIS. The EIS 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.

1.4.1 Project specific recommendations

Heritage NSW reviewed the previous 2015 report and recommended the following:

- Heritage NSW recommends that subsurface testing be undertaken in the relatively undisturbed Aeolian soil profiles associated with Ridge 1 transgressive dune sheet identified in the geomorphological and archaeological assessments and at the previously recorded Aboriginal sites BF-SC4-14 and BF-SC5-14. Testing should be undertaken prior to project approval under the provisions of an Aboriginal Heritage Impact Permit (AHIP C0005692).
- Heritage NSW recommends that the results of the subsurface testing should inform the development of an Aboriginal cultural heritage management plan. The Management Plan should be developed in consultation with the registered Aboriginal parties and Heritage NSW.
- Heritage NSW recommends that protocols for the management of previously unrecorded Aboriginal objects should be included in the proposed Management Plan.

1.4.2 AHIP Approval – C0005692

The AHIP (C0005692) permits the subsurface archaeological test excavations of the following AHIMS registered sites only:

- AHIMS Site # 38-4-2016 (BF-SC1-14)
- AHIMS Site # 38-5-0350 (BF-SC2-14)
- AHIMS Site # 38-5-0351 (BF-SC3-14)
- AHIMS Site # 38-5-0352 (BF-SC4-14)
- AHIMS Site # 38-5-0353 (BF-SC5-14)

1.5 Investigators and Contributors

Jake Brown is an archaeologist three years of experience in Aboriginal archaeological assessments, research, reporting, analysis and consultation. This experience has included cataloguing stone artefacts from the Hunter region, conducting field surveys, and monitoring of potential find sites during surface/subsurface disturbance across central and northern Queensland. Jake's educational qualifications include a Bachelor of Social Science (Hons) in Sociology and Anthropology, University of Newcastle 2015, and a Graduate Certificate of Archaeology from Flinders University 2017. Jake is a member of the Australian Archaeological Association. Jake Brown prepared the report, participated in the field activities and community consultation.

Dr Rod Bennison is an environmental specialist with over 20 years of experience (over 15 in a consulting environment). Rod has diverse expertise in construction management and social research and is responsible for managing construction projects, community liaison and public relations strategies and services, and environmental and social impact assessments. Rod manages and coordinates the provision of environmental and community relations services, including environmental planning, acoustics and air quality assessments, archaeological and ecological services. A biogeographer, ecologist and animal ethicist by profession, he is a certified Biodiversity Assessment Method Assessor (BAAS 19023) and contributes to the effective implementation of the BDAR. Dr Rod Bennison directed the project and provided general project oversight, quality assurance and financial management. He provided a review of this report and leads the environmental team at Advitech.

The Site officers were Ms Bec Young and Mr Luke Knight (Murrooma), Mr Chris Collison (Nur-Run-Gee) and Mr Brendan Lilley (Worimi Local Aboriginal Land Council).

1.6 Legislation and Statutory Obligations

All work described in this report was carried out in accordance with the following legislation, regulation and guidelines:

- *National Parks and Wildlife Act 1974* (NPW Act);
- National Parks and Wildlife Amendment Regulation 2009 (NPW Regulation);
- *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010a);
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010b) insofar as this relates to the assessment; and
- *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (DECCW 2011) insofar as this relates to the assessment.

Under the NPW Act, it is an offence to harm an Aboriginal object whether or not a person knows it is an Aboriginal object. Property owners, developers and land managers are required to consider their proposed activities, and whether any harm may occur to Aboriginal objects and places under several pieces of legislation. The NPW Act is administered by the Heritage NSW and is the primary legislation for the protection of Aboriginal cultural heritage in New South Wales. Under Part 6 of the Act, it is an offence to knowingly harm or desecrate an Aboriginal object or Aboriginal place. If harm to an object or place is anticipated, an Aboriginal Heritage Impact Permit (AHIP) must be applied for and Heritage NSW may issue an AHIP under s90 of the Act.

The following legislation also relates to the protection of Aboriginal Heritage:

- *Environmental Planning and Assessment Act 1979* (EPA Act)

The potential impacts of a development on Aboriginal heritage are a key component of the environmental impact assessment process under the EPA Act. In NSW, the EPA Act is the principal law overseeing the assessment and determination of development proposals which are considered under the Act.

- *Heritage Act 1977* (NSW) (the Heritage Act)

The Heritage Act protects the natural and cultural history of NSW with emphasis on non-indigenous cultural heritage through protection provisions and the establishment of a Heritage Council. While Aboriginal heritage sites and objects are protected primarily by the NPW Act 1974, if an Aboriginal site, object or place is of great significance it can be protected by a heritage order issued by the Minister on the advice of the Heritage Council.

- *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (as amended 1987) (Commonwealth)

The Aboriginal and Torres Strait Islander Heritage Protection Act 1984 protects areas and/or objects which are of significance to Aboriginal people and which are under threat of destruction. A significant area or object is defined as one that is of particular importance to Aboriginal people according to Aboriginal tradition.

- *Aboriginal Land Rights Act 1983* (NSW)

The NSW Aboriginal Land Rights Act 1983 is administered by the Department of Human Services: Aboriginal Affairs NSW and establishes the NSW Aboriginal Land Council and local Aboriginal land councils. The Act requires these bodies to take action to protect the culture and heritage of Aboriginal persons in the council's area and promote awareness in the community of the culture and heritage of Aboriginal persons in the council's area.

- *Native Title Act 1993* (Commonwealth)

The Native Title Act 1993 provides the legislative framework to recognise and protect native title, establishes ways in which future dealings affecting native title may proceed and to set standards for those dealings, including providing certain procedural rights for registered native title claimants and native title holders in relation to acts which affect native title.

- *Australian Heritage Commission Act 1975* (Commonwealth)

The Australian Heritage Commission Act 1975 established the Australian Heritage Commission, which assesses places to be included in the National Estate and maintains a register of these places, which are significant in terms of their association with particular community or social groups for social, cultural or spiritual reasons. The Act does not include specific protective clauses.

1.7 Structure of the Report

The report chapter structure is as follows:

1. Introduction;
2. Description of the development proposal;
3. Consultation;
4. Landscape and Environmental Context;

5. Cultural Context;

6. Archaeological Context;

7. Test Excavation Methodology;

8. Test Excavation Results and Discussion;

9. Assessment of Impacts;

10. Significance assessment;

11. Mitigation and management strategies; and

12. Recommendations.

2. DESCRIPTION OF DEVELOPMENT PROPOSAL

The proposed development (**Figure 1**) incorporates the following:

- Establishing a quarry to extract and process sand at a rate of 750,000 tonnes per annum, from a total resource of 10 million tonnes;
- Constructing extractive materials processing and transport infrastructure;
- Transporting extractive materials off-site via public road;
- Site rehabilitation; and
- Options for final landform and land use incorporating an internal water body that would be used for a tourist facility or a solar energy farm, post mining.

It is intended to progressively remove the existing olive and fig farm and consequently introduce the sand mining operation in associated sequence. Initially, the sand mining operation will operate above the water table. Subject to the acquisition of sufficient water licences, a dredging operation would then be undertaken to increase the production rate of the sand extraction. It is expected that the availability of the higher grade resource will be in high demand. It is anticipated that the resource would take up to 15 years to be extracted. During that time the following employment generation is anticipated:

- 80 on site jobs, including transportation;
- 15 jobs in downstream manufacturing processes; and
- 10 jobs in recreational, landscaping and construction industries.

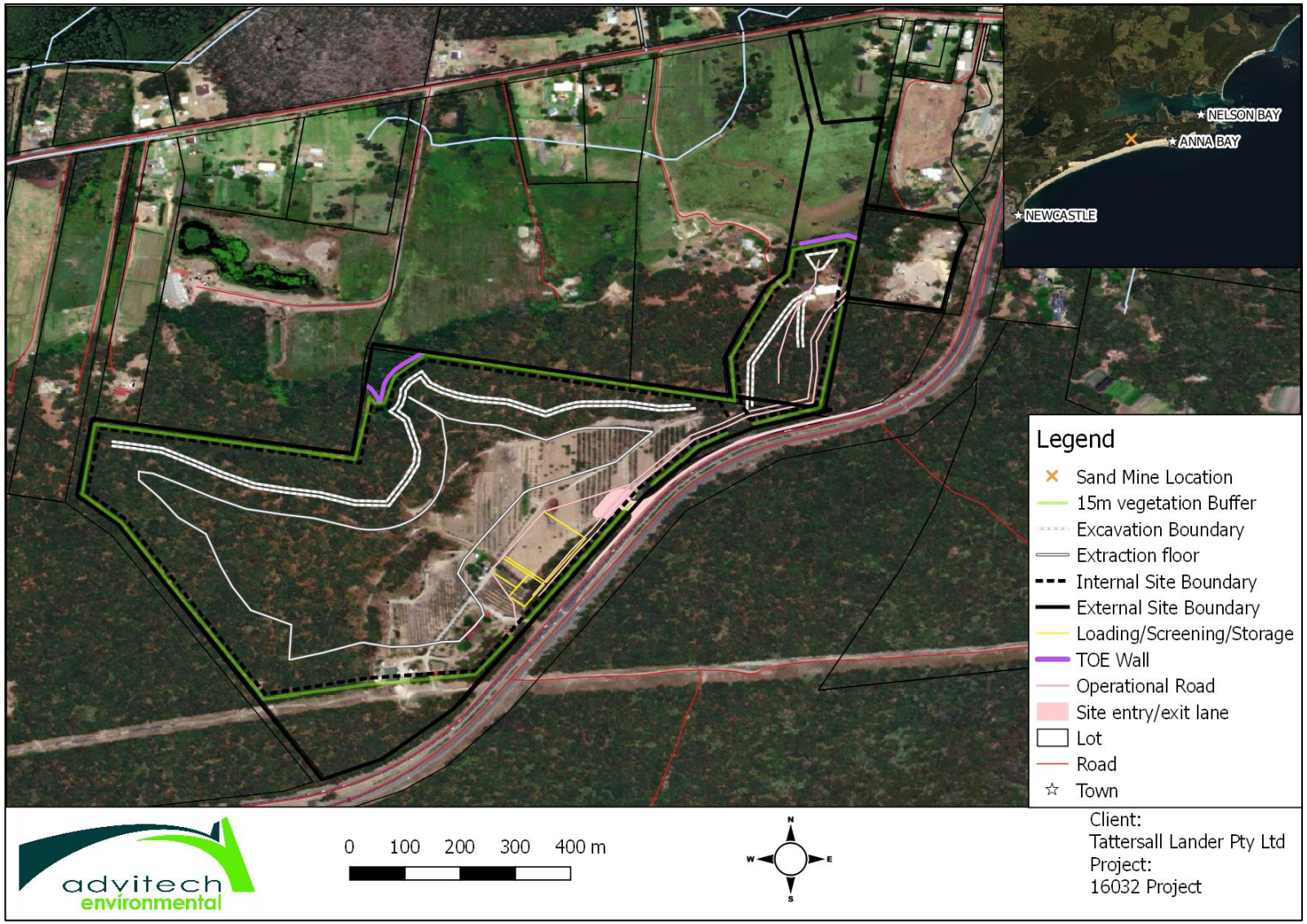


Figure 1: Project Design and Location.

3. CONSULTATION

As per the *Aboriginal Cultural Heritage Consultation Requirements for Proponents* (2010a), Advitech followed the four stages of consultation as set out in Advitech (2020).

As an updated ACHAR was required for the AHIP application, Advitech undertook consultation starting in 2019. The tables below detail the process prior to this report.

3.1.1 Stage 1: Notification of project proposal & registration of interest

Table 1Table 2 details the initial contact of parties listed in the *NSW Aboriginal Cultural Heritage Consultation requirements for proponents* 2010 and responses. **Table 3** describes the registered parties for the project with party, contact person and date of registration.

Table 1Table 2: Initial Consultation letters

Contacted party	Method	Date	Response
Hunter EPRG Regional Office	Email	14 June, 2019	Provided contacts
Worimi LALC	Email	14 June, 2019	Registered interest
Registrar	Email	14 June, 2019	No reply
Worimi	Email	14 June, 2019	Registered interest
NTSCORP	Email	14 June, 2019	No reply
Port Stephens Council	Email	14 June, 2019	Contact Worimi
Hunter LLS	Email	14 June, 2019	Automated response acknowledging receipt of email. No reply

Table 3: Registered Parties

Registered Party	Contact person	Date Registered
Worimi LALC	Jamie Merrick	28 June, 2019
Nur-Run-Gee	Lennie Anderson	28 June, 2019
Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	2 July, 2019
Murra Bidgee Mullangari	Ryan Johnson	2 July, 2019
Didge Ngunawal Clan	Paul Boyd and Lilly Carroll	2 July, 2019
Mur Roo Ma Inc	Anthony Anderson	4 July, 2019
Worimi Traditional Owners Indigenous Corporation (WTOIC)	Candy Towers	5 July, 2019
Widescope	Steven Hickey	5 July, 2019
Karuah Indigenous Corporation	Dave Feeney	9 July, 2019
A1 Indigenous Services	Carolyn Hickey	15 July, 2019
Divine Diggers Aboriginal Cultural Consultants	Deidre Perkins	20 July, 2019 (late reply)
Worimi Aboriginal Cultural Services	Tamara Towers	21 July, 2019 (late reply)
Lower Hunter Wonnarua Cultural Services	Tom Miller	25 July, 2019 (late reply)

3.1.2 Stage 2: Presentation of Information about the proposed project

Information was sent to registered parties once receipt of interest has been received and the registration period has concluded. The presentation will consist of a summary of background information, details about the purpose and objectives of the project, as well as the proposed methodology for feedback from the registered parties. If any additional information was requested by the registered parties, it was to be provided in consultation with the client. **Table 4** lists responses from the review of the methodology.

Table 4: Review of Methodology Responses

Registered Party	Date of Response	Summarised Comment
Karuah Indigenous Corporation	19 July, 2019	Agreed with methodology
Murra Bidgee Mullangari	23 July, 2019	Agreed with methodology
Worimi Aboriginal Cultural Services	23 July, 2019	Agreed with methodology
Worimi Traditional Owners Indigenous Corporation (WTOIC)	23 July, 2019	Agreed with methodology
Mur Roo Ma Inc	20 August, 2019	Agreed with methodology

3.1.3 Stage 3: Gathering information about cultural significance

Table 5 lists cultural information about the site that was gathered from registered parties.

Table 5: Information gathered from RAPs

Registered Party	Date of Response	Summarised Comment
Karuah Indigenous Corporation	19 July, 2019	The area contains Aboriginal objects and places, willing to provide information about the site verbally
Worimi Aboriginal Cultural Services	21 and 23 July, 2019	Site and surrounding area has continued significance and cultural knowledge holders include Tamara Towers (RAP), Worimi LALC (RAP), Candy Towers (RAP) and Lennie Anderson (RAP)
Worimi Traditional Owners Indigenous Corporation (WTOIC)	23 July, 2019	Provided details of people with cultural knowledge: Candy Towers (RAP) and Debbie Dates (WTOIC)

3.1.4 Stage 4: Review of draft cultural heritage assessment report

The draft ACHAR was sent to registered parties on the 12 September, 2019 for review. The review period ended on the 11 October, 2019. A reminder was sent on the 9 October, 2019 for anyone wishing to comment. Below is a table of summarised comments from responding parties, for full responses see **Appendix II**.

Table 6: Draft ACHAR responses

Registered Party	Date of Response	Summarised Comment
Worimi Aboriginal Cultural Services	9 October, 2019	Agreed with report. Additional late response on 13 November, 2019 Supporting ACHAR and methodology. Notes that the area has continued cultural significance.

Mur Roo Ma Inc	9 October, 2019	Agreed with report recommendations, would like to stress the cultural values of the area and sites in proximity
Widescope	11 October, 2019	Supports recommendations in draft ACHAR

Consultation when an update was available was provided to the RAPs. This included lodgement of the AHIP and preparation for fieldwork.

All correspondence for the consultation process is provided in Advitech (2020). **Appendix I** contains the consultation log and relevant details.

3.2 Test excavation

RAPs that were invited to participate in the test excavation included members that were previously involved in the investigation and another local group. Provision was made for payment of three RAP field officers who were invited to participate in the test excavation that commenced on the 4 May, 2020. The participants were Ms Bec Young (Murrooma), Mr Chris Collison (Nur-Run-Gee) and Mr Brendan Lilley (Worimi Local Aboriginal Land Council).

3.3 Review of draft test excavation report

A copy of the draft report was forwarded and posted to all RAPs for their review and were asked to provide a written or verbal response no later than 5 **August, 2020**. The cultural values identified in the written responses to the draft report are presented.

All comments received from the RAPs were considered in the final report, all submissions responded to were necessary and the draft report altered to include their comments (**Table 7**). All documentation regarding the consultation process is provided in this report (**Appendix I**).

Table 7: Draft test excavation report responses

Registered Party	Date of Response	Summarised Comment
Murra Bidgee Mullangari	23.7.20	Charlene called to say that given they weren't involved in fieldwork and are not getting paid to review report to comment will be forthcoming. I said I appreciated the call to notify of intent.
Murrooma	24.7.20 and 4.8.20	Asked whether earlier correspondence had been incorporated into report (Appendix I). Response to report says dune area has an extremely strong cultural connection, and not sure 5 test pits is adequate for the area.
Divine Diggers Aboriginal Cultural Consultants	24.7.20	Deidre responded saying no comment based on not being involved in the fieldwork.
Worimi LALC	3.8.20 and 4.8.20	Brendan Lilley called to said they had a few concerns and asked about response date. Jamie Merrick sent an email response saying RAPs were concerned that test pits could not be relocated during excavation.

4. LANDSCAPE AND ENVIRONMENTAL CONTEXT SUMMARY

The environmental context of the study area is discussed in detail in Advitech (2020) and a summary is provided here.

The study area is located in the temperate climate zone and the area is dominated by its relationship to water and the landscape. The site location has an approximate elevation between 30 m and near sea level. The topography of the area consists of the outer barrier and the edge of the depression between the two the inner and outer barrier. The project area is located on stabilised dunes of outer barrier near the interdunal depression (see **Figure 2**). The barriers are transgressive and stabilised dunes with a history dating to the Pleistocene (inner), Holocene (outer) and the interdunal depression which was originally a lagoon (McCardle CH 2012 pp. 6-7). Therefore, it was likely to have been utilised for camping, hunting and gathering environmental context.

As no fresh watercourse flows through the project area, any people in the project site would have had to rely on nonperennial unnamed watercourses recorded at a minimum of 400 m from the site. The landscape history that shaped the Holocene barrier, will also have impacted the use of the site with a shifting coastline (Pacific Ocean currently 2 km east), this would have impacted on available aquatic food sources as the barrier was created. The regional context has shell middens documented in close proximity to the site and suggests that the larger water sources such as Tilligerry Creek (located approximately 1.9 km to the north), Karuah River (located approximately 8.5 km to the north) and the Pacific Ocean are strongly connected to the site and regional context.

The landscape also represents modern agricultural practices and infrastructure demands such as tracks/roads and powerlines, all of which would have impacted on the landscape and cultural materials at those locations.

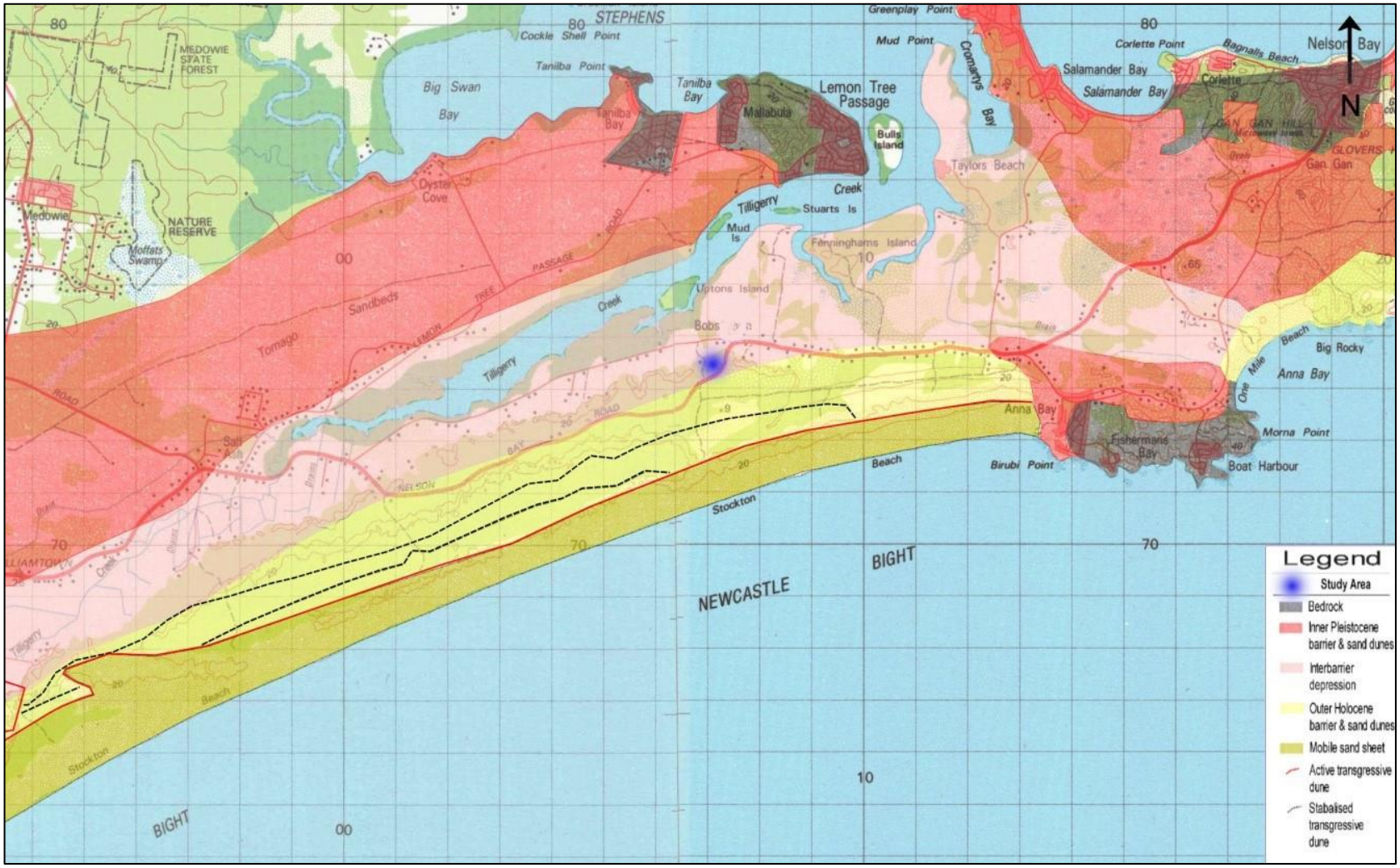


Figure 2: Landform Map (map source McCardle 2012)

5. CULTURAL CONTEXT

5.1 The Landscape and Cultural Heritage

The following is extracted from '*What is an Aboriginal Cultural Landscape*?' (DECCW 2010b):

> *All landscapes contain evidence of human use. The way that perceptions, beliefs, stories, experiences and practices give shape, form and meaning to a landscape is termed a cultural landscape (ACH 1998). An Aboriginal cultural landscape is 'a place or area valued by an Aboriginal group (or groups) because of their long and complex relationship with that land. It expresses their unity with the natural and spiritual environment and embodies their traditional knowledge of spirits, places, land uses, and ecology. Material remains of the association may be prominent but will often be minimal or absent.*
>
> *The landscape scale of cultural heritage is similar to the concept of 'whole-of-landscape' in ecosystem conservation – just as there is connectivity between all parts of natural ecosystems (e.g. plants, animals, soils and water) there is connectivity between cultural objects and places through past human behaviour patterns. The cultural landscape concept emphasises the landscape-scale of history and the connectivity between people, places and heritage items. It recognises that the present landscape is the product of long-term and complex relationships between people and the environment.*
>
> *Aboriginal cultural landscapes are comprised of:*
> *Significant biodiversity and a diverse range of ecological systems and associations, all of which contributed to the continuing existence of Aboriginal peoples in the region over many thousands of years, and which are valued in different ways by Aboriginal communities today;*
>
> - *Material remains of this continuing occupation in the form of a diverse array of Aboriginal sites and places known to the Aboriginal communities, some of which will be recorded on the Department of Environment, Climate Change and Water's Aboriginal Heritage Information Management System.*
> - *Extensive historical records from 1788 through to today which record observations of Aboriginal people and lifestyles, wars, massacres, social and cultural events, population census, social interactions, language etc, and which influence Aboriginal community values today.*
> - *An Aboriginal population made up of people who have traditional association and knowledge of the region, as well as others who live, work and play within the region, all of whom may attribute various values with the area, derived from the distant and recent past, through to the present day.*
>
> *For Aboriginal people, the significance of individual landscape features is derived from their inter-relatedness within the cultural landscape. This means features cannot be assessed in isolation and any assessment must consider the feature and its associations in a holistic manner. This may require a range of assessment methods and will always require the close involvement and participation of Aboriginal people. By consulting with Aboriginal people and using the concept of cultural landscapes, the story behind the features can be told which demonstrates the associations that may exist between Aboriginal objects and other features within the landscape* (DECCW 2010b).

5.2 Cultural Context

Since colonisation, records of interactions and Aboriginal culture have been documented. Early explorers such as Charles Grimes noted physical and language differences to the Sydney Aboriginals

when he visited in 1795 (Port Stephens Council, n.d.). Other early records of the Worimi include Richard Dawson between 1826 to 1828 and William Scott in the 1850s (Dyall 2004, p. 4). The Worimi were recorded as having a number of tribes according to Enright (1900) and Sokoloff (1976) which include:

- Garuagal;
- Maiangal;
- Gamipingal;
- Garrawerrigal;
- Buraigal;
- Warringal;
- Birroongal;
- Birrimbai;
- Yeerungal; and
- Wallamba.

Other earlier sources include Enright (1899, 1900 and 1932) who recorded language, tools and cultural events such as initiation ceremonies in Port Stephens. Sokoloff (1976) details social and ceremonial aspects of the Worimi at Port Stephens which included dispute resolution, totems and marriage practices. Elkin (1932) also discusses language, totems and social organisation of the Worimi as well as including a brief description of the Worimi area which stretch to Maitland through Stroud and to the Pacific Ocean near tea Gardens. Brayshaw (1987) also provided a source on the Worimi people and other groups in the Hunter region documenting environmental use, cultural and dietary practices. Brayshaw (1987, pp. 40-41) also noted that the Worimi had frequently associated with the Awabakal to south and shared a language with the Gringai (west) and Birpai (north).

6. ARCHAEOLOGICAL CONTEXT

A detailed archaeological review has been provided in Advitech (2020) and a summary is provided here.

6.1 AHIMS Sites

A search of the AHIMS register has shown that 14 Aboriginal sites or objects that are currently recorded within a 900 m radius of the study area. The search area was limited to focus on the project site and the immediate surrounding vicinity. The literature research reveals more registered sites in the local area which are generally associated with the construction of roads, power infrastructure and mines. The basic details of the known registered sites within 900 m are itemised below in **Table 8**.

Table 8: Summary results of AHIMs Extensive search

Site ID	Site Name	Aboriginal site/object	Site Status
38-4-2016	BF-SC1-14	Shell	Valid
38-5-0350	BF-SC2-14	Shell	Valid
38-5-0351	BF-SC3-14	Shell	Valid
38-5-0352	BF-SC4-14	Shell	Valid
38-5-0353	BF-SC5-14	Shell	Valid
38-4-0304	Marsh Rd 1	Artefact, shell	Valid
38-4-0309	M 1	Shell, artefact	Valid
38-4-0310	M 2	Shell, artefact	Valid
38-5-0217	Tomaree 1	Shell: 1	Valid
38-5-0218	Tomaree 2	Shell: 1	Destroyed
38-5-0208	Nelson Bay Road PAD1	Potential Archaeological Deposit (PAD): 1	Valid
38-5-0234	PAD 5: Tomaree to Tomago	Potential Archaeological Deposit (PAD): 0	Valid
38-5-0257	Tomaree 2a	Shell	Valid
38-5-0258	Tomaree 2b	Shell	Valid

The full AHIMS results, details of their specific locations and mapping, are provided in **Appendix I**. Detailed results have been separated in order to enable the easy detachment of the Appendix and prevent the unnecessary public disclosure of these details.

Reliance on the locations provided by the AHIMS searches is tentative. There are many variables that must be considered when using the Aboriginal Heritage Information System (AHIMS). More particularly, site coordinates, and descriptions are not always correct due to the following:

- Errors resulting from the evolution of subsequent computer systems used by OEH that have failed to account for or correctly translate old coordinate systems, such as topographic map references, to new systems;
- Errors resulting from human error or incorrect descriptions of locality on the site cards submitted to AHIMS;

- Errors resulting from data input. Most commonly the naming of the correct mapping system used; and
- Few sites have been updated on the AHIMS register to record if they have been subject to a s87 or s90 permit and, as such, what sites remain in the local area and what sites have been destroyed is unknown.

Variation in the classificatory definitions employed by archaeologists will significantly influence the range of artefact types identified in an assessment. Due to differences in recording techniques it is difficult to determine how many of each artefact type is represented across the region. Artefact types noted include flakes (broken, retouched, debitage, waste, chips), cores (multi-platform, single and bipolar), geometric microliths, backed blades, bondi points, scrapers, eloueras, burins, blades, hatchets, choppers (unifacial and bifacial), pebble tools, edge-ground axes, anvils and hammer stones. Due to variations in both the amount of data that is included in reports, and the terms different archaeologists used to describe artefact types, it is not practicable to provide a count of the different artefact types. It is therefore not productive to attempt to quantify the proportionate representation of artefact types identified in previous studies. An analysis of sites according to the number of artefacts present, the distance from water and the landform type may allow for the identification of a number of trends. However, there are various factors influencing these results, including, not limited to:

- A lack of substantial archaeological investigation of privately owned properties surrounding the study area. As the study area and the surrounding locations are part of the earliest properties to be developed and the active protection of Aboriginal heritage has only occurred within the last thirty years, insufficient investigative results are present to make an informed analysis of trends;
- The fact that the landform on which a site area is observed may not necessarily be its origin, for example, artefacts from a crest may be relocated by erosion such that they are recorded further down a slope;
- Effects of biased sampling of landforms due to decisions made by archaeologists and as a result of development area boundaries, levels of exposure on different landforms and variable recording by archaeologists. For example, the large percentage of sites found along creek lines may be (at least partially), a result of the biased focus of many cultural heritage surveys towards this landform. In addition, it was not possible to obtain sufficient information from a large number of site cards and reports; and
- Artefact counts can be skewed due to factors such as the differing fragmentation levels of discrete stone types and levels of ground surface visibility. Typically, a very large number of sites/artefacts are located on exposures and yet very few artefacts are visible away from these exposures.

In the case of this assessment and the study area, little reliance should be placed on the archaeological context due to the lack of information available by way of comparable studies in the locality and on the same landforms. However, some modelling of past Aboriginal use can be derived from the surrounding registered Aboriginal sites.

6.2 Local and Regional Archaeological Context

A review of the context of local and regional archaeological assessments, when combined with environmental factors (see **Section 3**), provides the broad basis of a predictive archaeological model for the study area (see **Section 4.3**). The broader cultural landscape (as discussed in **Section 5**) is highlighted when there is a modelling of expected site types, frequency of their occurrence and spatial distribution patterns across the wider area.

However, previous archaeological investigations are somewhat limited in their utility regarding site locations, lithic artefact quantities and type. These limitations arise from the variable way archaeologists have previously identified, classified and recorded Aboriginal objects, particularly lithic materials, and Aboriginal sites. Owing to these variations in the amount of data that is included in reports and the terms different archaeologists use to describe artefact types, a comparison of objects and tool types from each site is not considered to be representative or reliable for the purposes of predictive modelling other than on a broad and generalised basis.

Overall, there is a moderate amount of substantial archaeological data for the region. The local data consists of projects in the neighbouring area relating to infrastructure or development projects and does not necessarily represent to the same landscape and level of existing disturbance. Of the most relevant reports reviewed, the following information is pertinent to this report.

6.2.1 Previous Assessments and sites in the project area

6.2.1.1 AECOM 2015a, Bobs Farm Sand Project Aboriginal Cultural Heritage Assessment. Report to Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd.

This report is part of a heritage EIS assessment that also includes a historic heritage assessment. The report found 5 shell middens on the site. The sites were located on the inner Pleistocene ridge and approximately 400m from the closest water source. The survey covered predominantly disturbed and cleared areas. Community consultation with Aboriginal representatives and the results of the survey recommended a salvage program, Aboriginal Cultural Heritage Management Plan, monitoring during vegetation clearance and inspections of rejected material.

6.2.1.2 AECOM 2015b, Bobs Farm Sand Project Historic Heritage Assessment. Report to Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd.

This report is part of a heritage EIS assessment that also includes an Aboriginal Cultural Heritage Assessment. The assessment found the Bobs Farm area had European settlement from 1820s. The project area had also been impacted by agriculture and refugee camp during World War II for Portuguese and Timorese. Limited details of the camp survive and no confirmed location and layout is available. Recommendations were to have an Environmental Management Plan that included historic heritage protection contingencies.

6.2.1.3 Advitech 2020, Bobs Farm Sand Mine Aboriginal Cultural Heritage Assessment. Report to Tattersall Lander Pty Ltd on behalf of Ammos Resource Management Pty Ltd.

This additional assessment was in response to a letter from BCD regarding the previous 2014 assessment. Approximately 17.8 km was walked across the proposed sand mine. Current disturbances on the property include agricultural (orchard) and pastoral practices (cattle), industrial (powerlines/transmission lines and corridor) and residential. Access to the properties being investigated was readily available in most areas, however the survey did not enter fenced areas surrounding houses. Effective coverage was considered low in all survey units due to the leaf letter/vegetation blocking visual inspection of the ground. Effective coverage equalled 6.55% due to low visibility and exposure.

The registered AHIMS sites are shell that has likely been disturbed from the origin context. Other shell finds across the proposed sand mine site also appear to have a disturbed context. Trees noted as having potential cultural modifications did not appear to have axe marks visible, though the majority of suspect trees were hollow and did not have a dry face present, as well as having evidence of fire, pest damage and recent human damage (metal peg/nail). Bone fragments are low in discovery however may not have

the same origin as the shell as it appears to be only found in orchard area. An intact bird skeleton was noted during the ACHA survey and predatory animals such as snakes were also seen, this leads to some speculation that the bones may be more recent than the shell deposits given the lesser number of finds. Whilst the shell predominantly represents Whelk, Cockle and Oyster shells (as found in AECOM 2015 ACHA report (2014 survey)) and these have been recorded as being a food source, the disturbed context of shell finds is predicted to lower the archaeological values of the finds. Nonetheless, this does not necessarily lower any cultural connections.

For further information refer to Advitech (2020).

6.3 Archaeological Context

The study area in a local context can be associated with research in the broader area to define the history of the area. The broader regional area has provided finds of middens (Silcox 1999; Brayshaw 1988; Dallas 1982; Villiers 1981; Dyall 2004) and scatters (Baker 1994; Dyall 1980, 2004). A number of shell scatters are also registered on the AHIMS. There is a moderate amount of substantial archaeological data for the region. The Birubi site suffered rapid degeneration in the 1970's through weather events and human actions (such as recreation and building practices) Dyall (2004). Dyall undertook surface collections between 1965-1977 and an excavation in 1979 (published in 1982). The middens included shell, fish bones, charcoal and stone flakes. Stone tools were documented at a number of the middens including Bondi points, eloueras, edge-ground axes and bondaian tools Dyall 2004). aimed to analyse and record faunal deposits of the Birubi shell Midden. The site was investigated by Dyall during the 1970s. Sheppard Brennand's (2017) findings demonstrated changes in spatial and temporal use of faunal resources. Additionally Dean-Jones et.al (2017) discussed the management of Birubi. The points covered include past management, needs and desires for future management and consultation styles. Key directions for the future include Worimi lead cultural promotion and education about the Birubi Point, planning and implementation for facilities and tourism, as well as heritage and environment protection. McCardle (2012) undertook a due diligence for upgrading a section of Nelson Bay Road with the landscape characterised by the outer Holocene barrier and interbarrier depression. Two shell middens and a low-density artefact scatter is recorded with the study area and during the survey two shell middens were located. An additional study by McCardle (2015) had a study area approximately 1 km from Tilligerry Creek and was part of a flood plain associated with the interbarrier depression. No heritage items were located at the proposed wakeboard park. The local data consists of projects in the neighbouring area relating to infrastructure or development projects and does not necessarily represent to the same landscape and level of existing disturbance.

A general model of forager settlement patterning in the archaeological record has been established by Foley (1981). Foley's model distinguishes the 'home base' site with peripheral 'activity locations'. Home base sites generally occur in areas with good access to a wide range of resources (reliable water, raw materials, and so on). The degree of environmental reliability of these resources may influence the rate of return and length of occupation of sites. Further, Foley (1981) suggests that home base sites generally show a greater diversity of artefacts and raw material types reflecting that they are representative of a greater array of activities performed at both the site and immediate area.

Activity locations occur within the foraging radius (approximately 10 km) of a home base camp and served as a focus of a specific activity (Renfrew and Bahn, 1991). Activity locations will show a low diversity in artefacts and are not likely to contain features reflecting a base camp (such as hearths). However, the location of certain activities cannot be predicted or identified.

Kuskie and Kamminga (2000) established a general model of occupation strategies based primarily upon ethnographic research (see**Table 9**). The model distinguishes between short-term or extended long-term occupation and makes some predictions about the likely location of different foraging and

settlement activities. For example, the presence of features that required a considerable amount of labour investment, such as stone-lined ovens, heat-treatment pits or grinding grooves, are likely to occur at places where occupation occurred for extended periods of time. Where band mobility was high and campsites frequently shifted throughout the landscape, artefact assemblages are not expected to contain elements such as grindstones, heat-treatment pits, ovens and the diversity of implements frequently discarded at places of extended residential occupation. **Table 9** has been adapted from Kuskie and Kamminga (2000).

Table 9: Site Descriptions (adapted from Kuskie & Kamminga 2000)

Occupation Pattern	Activity Location	Proximity to water	Proximity to food	Archaeological expectations
Transitory movement	All landscape zones	Not important	Not important	▪ Assemblages of low density & diversity ▪ Evidence of tool maintenance & repair ▪ Evidence for stone knapping
Hunting &/or gathering without camping	All landscape zones	Not important	Near food resources	▪ Assemblages of low density & diversity ▪ Evidence of tool maintenance & repair ▪ Evidence for stone knapping ▪ High frequency of used tools
Camping by small groups	Associated with permanent & temporary water	Near (within 100m)	Near food resources	▪ Assemblages of moderate density & diversity ▪ Evidence of tool maintenance & repair ▪ Evidence for stone knapping & hearths
Nuclear family base camp	Level or gently undulating ground	Near reliable source (within 50m)	Near food resources	▪ Assemblages of high density &diversity ▪ Evidence of tool maintenance & repair & casual knapping ▪ Evidence for stone knapping ▪ Heat treatment pits, stone lined ovens ▪ grindstones
Community base camp	Level or gently undulating ground	Near reliable source (within 50m)	Near food resources	▪ Assemblages of high density & diversity ▪ Evidence of tool maintenance & repair & casual knapping ▪ Evidence for stone knapping ▪ Heat treatment pits, stone lined ovens ▪ Grindstones & ochre ▪ Large area >100sqm with isolated camp sites

Hunting would have comprised the major economic role of the men (Kohen 1986). Along the rivers, traps and snares would have been set for bandicoots and wallabies, while decoys for snaring birds were also a commonly employed technique, 'these are formed of underwood and reeds, long and narrow, shaped like a mound raised over a grave, with a small aperture at one end for the admission of the prey' (Tench 1793). Hunting methods included smoking out the animal by lighting a fire in the base of a hollow

tree, burning large tracts of land and gathering the stranded animals, as well as cutting toe-holds in trees (Tench 1793).

6.3.1 Predictive model for the project area

There is potential for local or district outlook from the study area due to the landscape, however the surrounding tree canopy may have affected visibility. Verbal evidence of a songline following the ridge throughout the proposed site was mentioned in the 2015 ACHA report.

Overall, based on the environmental and archaeological context and using Kuskie and Kaminga's (2000) model, it is considered that the study area would have been most likely suitable for transitory hunting and foraging as opposed to any lengthy occupation. More preferable areas for occupation with richer resources, such as the Karuah River (perennial), Tilligerry Creek (non-perennial) and the Pacific Ocean. Using this predictive model with an adapted regional model based on UCHQU (2017, pp. 33-35) and Umwelt (2017, pp. 53-55) which details that sites are more likely to occur within:

- 200m of a named watercourse;
- 100m of a mapped drainage line;
- 50m of a known Aboriginal cultural heritage site;
- On landforms with a slope no greater than 30 degrees, except where sandstone bedrock or limestone outcrops are present; and
- Archaeological deposits may be at depth due to stabilised and transgressive dunes.

Based on the predictive modelling from the previous assessment and following an inspection of the study area, a final predictive model for the study area and its archaeological potential, reveals that there is a medium to high of Aboriginal object(s) being present within the developed and disturbed portions of the study area. Using the predictive modelling of the previous assessment of the site by AECOM and other reports from assessments of Nelson Bay Road and surrounding area:

- 200 m of a named watercourse;
- 100 m of a mapped drainage line;
- 50 m of a known Aboriginal cultural heritage site;
- On landforms with a slope no greater than 30 degrees, except where sandstone bedrock or limestone outcrops are present;
- Archaeological deposits may be at depth due to stabilised and transgressive dunes;
- Site locations may have shift from original context due to erosion/accumulation of dunes;
- Previous archaeological studies may not represent the sites/landform context due to classification of landforms, assessment sites not evenly disturbed and level of disturbance;
- The landscape and landforms of the area proposed for impact. The results of contextual archaeological studies indicate a preference for sites within 50 metres of reliable water sources or a confluence of water sources, on ridge lines, spurs and on crests;
- Sites are not usually found in the interbarrier depression but rather on the inner and outer barriers;
- Previous surveys indicate artefact scatters, isolated finds, scarred trees, burials and ceremonial sites could be found in the inner and outer barriers/sand dunes;

- The lack of archaeological reports published or available for the area give an inaccurate indication of the potential for Aboriginal sites to be found. While existing registered AHIMS sites are located in close proximity to the disturbance footprint, there is potential for other previously recorded but not registered sites to exist in the area as well as unrecorded sites;
- Aboriginal burials have been located along Nelson Bay Road in previous assessments and in the surrounding area in sand dunes and under middens, this may result in a possibility of Aboriginal burials on site;
- Disturbance may alter the context of a site and change the possibility of find likelihoods; and
- A previous survey (AECOM 2014) found shell in disturbed sections of the site (tracks), this may represent accumulation of material covering sites and suggest visibility could pose an issue.

In summary, the study area provides some suitable resources and landscape features (elevated positions, distance to semi-permanent water) to allow for temporary or transient occupation of the site. While it is probable that the area hosted long term community base camps or transitory locations, it is reasonable to infer that smaller camping or nuclear family base camps may have been established in the area. The observation of Aboriginal sites in the proposed footprint is in alignment with what is to be expected of an area with these environmental features: the sites identified during previous surveys include shell middens.

7. TEST EXCAVATION METHODOLOGY

7.1 Objectives

The purpose of archaeological test excavation was to collect information regarding the nature and extent of the shell surface finds and whether they equated to sub-surface Aboriginal objects, based on the sample obtained from these sub-surface investigations. The test excavation will contribute to the understanding of site characteristics and local and regional prehistory and was used to inform conservation goals and harm mitigation measures for the proposed activity. The test excavation also informs the creation of an Aboriginal Cultural Heritage Management Plan.

The test excavation will be the predominant assessment method as per the recommendations of further investigations of the ridge 1 transgressive dune sheet. This includes two previously recorded sites BF-SC4-14 and BF-SC5-14 which were classified as shell scatters, however additional test pits will be placed across the broader Project area to obtain a comprehensive site context and to inform the management measures in an ACHMP if required. These five are located over the previously identified shell scatters (**Figure 3**),

7.2 Date of Commencement and Completion

The test excavation took place between 4 May and 8 May, 2020. Most of Tuesday 5 May, 2020 was lost to wet weather.

7.3 Location of Temporary Storage of Cultural Materials

Cultural material was located, it was reburied on site following Requirement 26 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW*. Long term management under an ACHMP may alter current storage arrangements.

7.4 Excavation Methods and objectives

The proposed subsurface testing is to further assess the development area with the assistance of the local Aboriginal community. This test excavation aims to supplement the findings of the Aboriginal Cultural Heritage Assessment in 2014. The assessment process will consist of community participation in the field and data gathering about the potential cultural significance of the area. Previous data gathered will be used to assist in targeting specific areas of investigation.

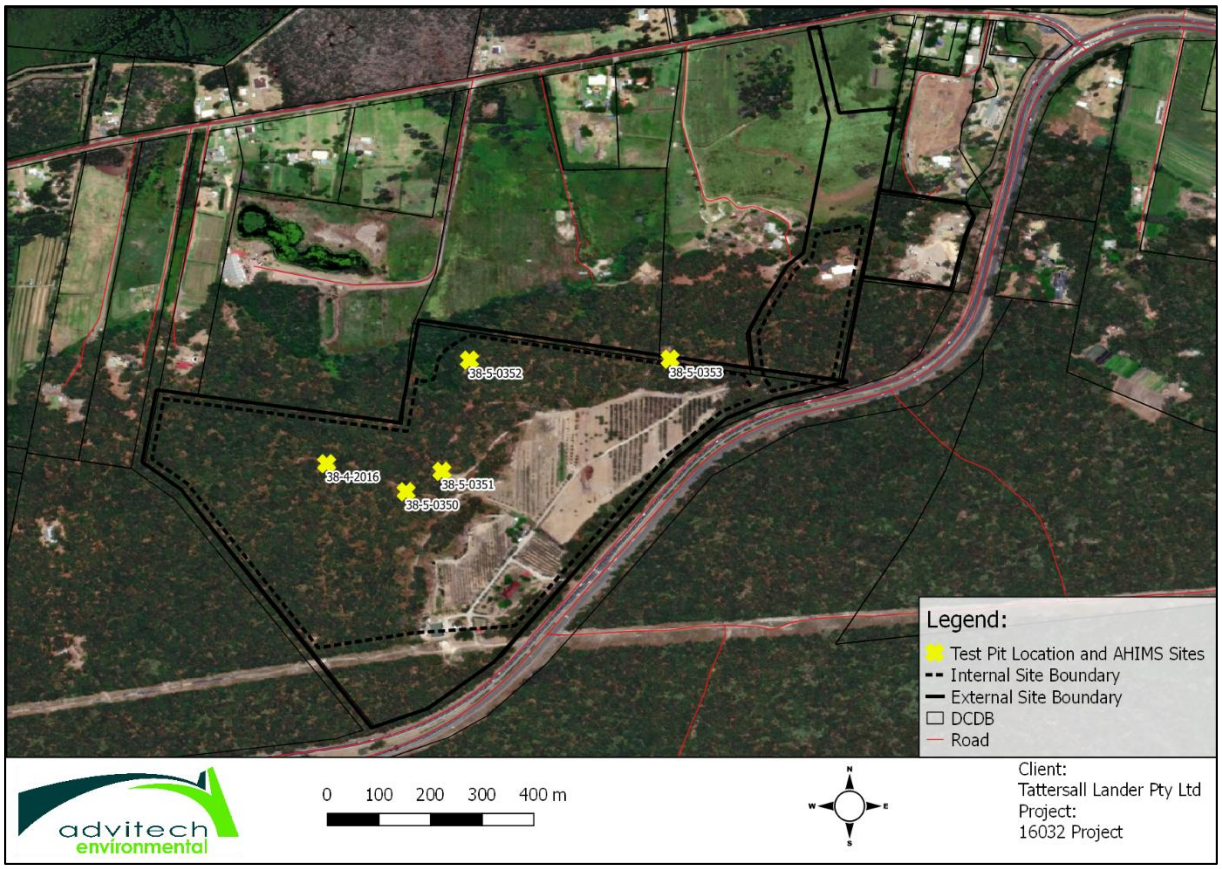


Figure 3: Planned Test Pit Locations.

The test excavation as per the recommendations of further investigations of the ridge 1 transgressive dune sheet. This includes two previously recorded sites BF-SC4-14 and BF-SC5-14. Additional test pit locations have been established following an Aboriginal Cultural Heritage Assessment field survey (2019), and in consultation with RAPs in the field. A total of five test pits are proposed, all of which are located over the previously identified shell scatters,

An Aboriginal Heritage Impact Permit will be obtained prior to excavation. Excavation will be conducted as per the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* which includes:

- Test excavations must be excavated using hand tools only;
- Test excavation area is to be clearly defined and demarcated by an archaeologist and the RAPs;
- Those test pits located over existing AHIMS sites or areas of higher significance, will be dug in a 1.0 m^2 pit comprising 50cm x 50cm quadrants;

- Test pits will be dug to a minimum of 30 cm in depth and to a maximum of 100 cm in depth or the unit could clearly be determined at culturally sterile. The maximum depth of 100cm was to ensure the safety of personnel on site and minimise the risk of collapse/slumping of the trench walls. If required upper layers will be stepped to further minimise risk to persons;
- Stepping of pits will be used to expand the test pit if heritage material is found in the lower depths and the maximum 100 cm has been reached. The step will use quadrants to assist in determining extent of the material;
- If necessary, satellite pits may be dug surrounding the primary test pit if the ground is to unstable or there is evidence of finds going in a certain direction. Any satellite pit added will be on a grid pattern adjoining the primary pit and use standard excavation units for sizing. A satellite would be located where evidence occurred or an unstable wall was present;
- Use of shoring equipment for stability of test pits and safety of personnel on site;
- Ground cover will be examined and raked to the side of the test location to expose top soil, endangered species as mentioned in the EIS biodiversity report will be inspected for to minimise unintentional harm;
- The first excavation unit must be excavated and documented in 5 cm spits at each area being investigated. Based on the evidence of the first excavation unit, 10 cm spits or sediment profile/stratigraphic excavation (whichever is smaller) may then be implemented;
- All excavated materials will be passed through a sieve with 3 mm aperture (or as the soil texture and moisture allows);
- Photographic/scale-drawn records of the stratigraphy/soil profile, features and information must be made for each single excavation point;
- Where the site being test excavated constitutes a shell midden, additional information is to be captured during recording, including:
  - Site Name/ID;
  - Square ID;
  - Quadrant number;
  - Spit number;
  - Depth;
  - Stratigraphic and grid sketches;
  - Estimate of the abundance by species (pre-dominant, common, rare);
  - Estimate the density of shell present as a ratio of shell to sand based on the ground surface exposure or exposed sections. This data may assist in determining the use of the midden (primary or secondary) and its association with other material (general use site, habitation, transitory site); and
  - A representative sample of 25% of the material in each spit will be recorded, up to a maximum of 1L, with an exception of stone artefacts or hearth material. These materials will be recorded in their entirety;
- Test excavation units must be backfilled as soon as possible;
- Following test excavation, an Aboriginal Site Impact Recording form must be completed and submitted to the AHIMS Registrar as soon as practicable, for each AHIMS site that has been subject to test excavation in accordance with the requirements of this Code;

- Objects revealed during the test excavation will be reburied on site pending long term management of the salvaged Aboriginal objects through an ACHMP. The location of this storage location will be discussed and agreed upon with consultation between RAPs, Advitech and Heritage NSW; and
- An updated AHIMS site card will be submitted for each excavated site, and if necessary, new site cards submitted for additional finds.

As any test excavation at the project site had a chance of locating shell, this warranted an AHIP for any subsurface investigation. Due to five sites being registered, an AHIP was only granted for the test excavations at the registered sites, limiting potential investigation to these locations.

7.5 Research Questions

The research questions for the test excavation are as follows:

1. What species of shell were located during fieldwork and how does this reflect on known Aboriginal food sources?
2. What do the results of field investigations suggest about the land use of Aboriginals in the study area?
3. Does the landform influence the find locations or is this predominantly influenced by recent human disturbance?

8. TEST EXCAVATION RESULTS AND DISCUSSION

The results of the test excavation, the analysis and discussion of these results are presented in this section and the field data provided in **Appendix II** and **III**. A total of 5 test pits were excavated and their location shown in **Figure 4**. The locations and number were selected due to these being the registered sites and ultimately what was approved by the Heritage NSW. These locations had all displayed shell during previous surveys and excavation at these locations assisted in determining whether the surface finds had corresponding subsurface deposits.

8.1 Disturbances

A number of land use patterns have occurred at Bobs Farm project area. These include:

- Residential;
- Orchard;
- World War II refugee and army camp;
- Pastoral activities;
- Recreational activities such as motorbikes and horse riding; and
- Infrastructure such as fencing, power line easement and internal dirt roads/tracks.

Most of the disturbance is evident from site visits through visual confirmation or residual evidence of the past. The World War II camp has no to very minimal evidence left and none is believed to exist within the current project area (AECOM 2015b).

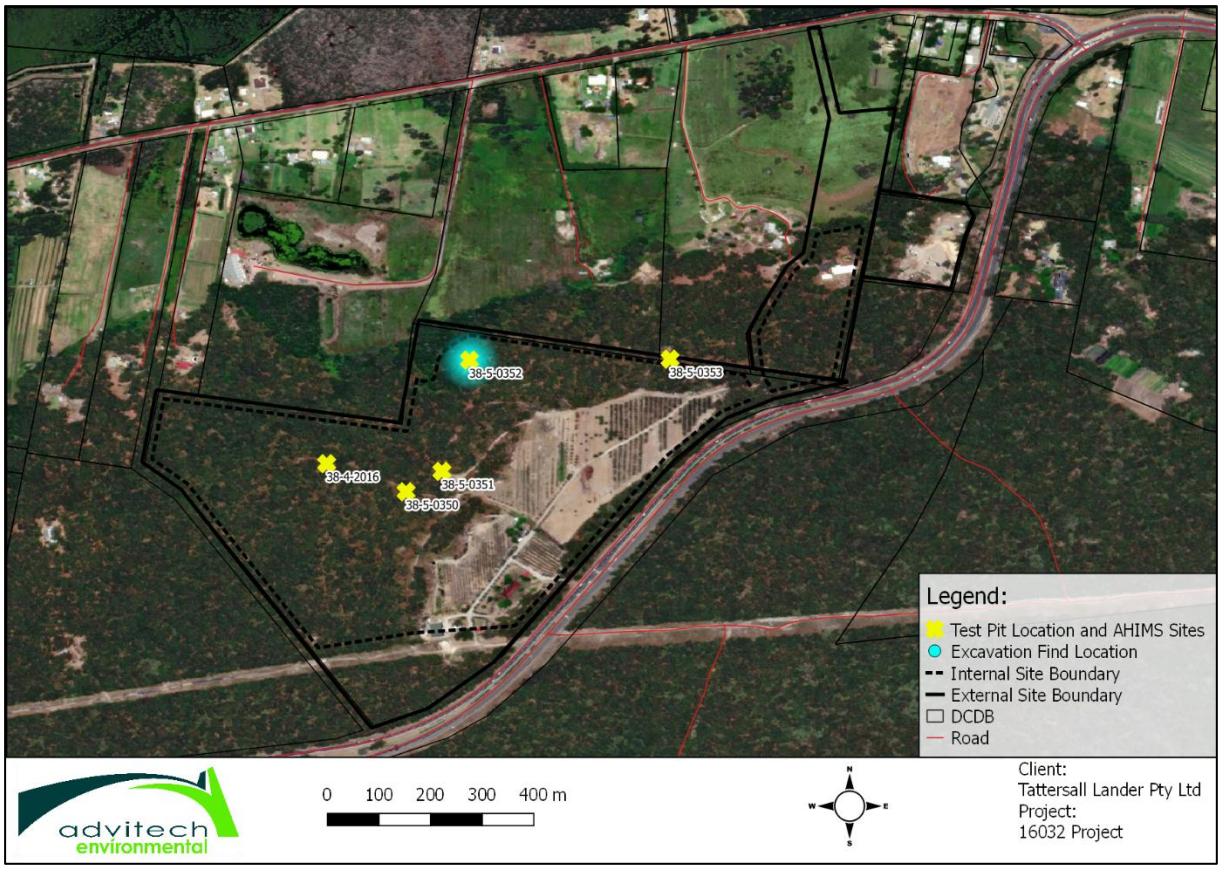


Figure 4: Test Pit locations and results.

8.2 Soil Profile and Stratigraphy

Located in the Boyces Track landscape (DPIE n.d.), the landscape is characteristic of stable Holocene dunes. The soil and stratigraphy were consistent across the five test pits and consisted of an A Horizon of sand ranging in the Munsell chart from 2.5 Y, 7.5YR and 10YR and pH of between 5 and 6. The inclusions were roots, organic matter and minimal sparse charcoal. The stratigraphy was consistent across the five test pits and consisted of: A1 horizon – speckled loos loamy sand: Brown grey sand, with a few charcoal fragments;

- A2 horizon – bleached loose light grey sand: greyish yellow brown with a few charcoal fragments;
- B horizon – faintly mottled sand: dull yellowish brown with few faint brown mottles. Classified as a weak horizon;
- C horizon – loose dull yellow orange sand: parent material. Dull yellow orange.

The pits normally had a darker top layer with a mix of organic material. The inclusions such as roots and charcoal which are expected in the A Horizon, and roots only in the B horizon given the soil descriptions, occurred in nearly all pits and spits except for the lowest spits of pits 2 and 3. As a maximum of 1m in depth was the limit of excavation this may have impacted the ability to reach the B horizon in some cases. Pit 4 due to the yellowing of the soil at the last two spits and not having inclusions is described as matching the C horizon. **Table 10** provides a summary of the test pits and **Figure 5** a representation of the stratigraphy.

Table 10: Test Excavation Results

Test pit	Spit Depth	Soil Description	Munsell Chart	pH Level	Inclusions	Finds
1	5 cm	Sand with organic matter. Loose consistency.	2.5y 5/1	6	Organic matter	No
	15 cm	Grey, sand semi compact consistency with friable elements.			Small charcoal inclusions	No
	25 cm	Sand - loose to friable consistency			Roots and small pieces of charcoal (sparse consistency)	No
	35 cm	Sand – friable to firm consistency. Denser in north east corner. Slight lightening in colour.			Roots, less charcoal and inclusions in general	No
	45 cm	Sand – semi compacted with friable elements. Once soil was exposed for a period of time the moisture depleted and the colour lightened.			Roots, small amount of charcoal.	No
	55 cm	Sand – firm consistency. Stratigraphy shows the top 20 cm is slightly darker.			Roots, small amount of charcoal.	No
	65 cm	Sand – firm consistency			Roots	No
2	5 cm	Sand and organic matter. Loose consistency.	10 YR 5/2	6	Organic matter and roots.	No
	15 cm	Sand – darker colour. Loose to friable consistency.			Shell, roots, rock/gravel.	Yes
	25 cm	Sand mottled in pattern north and south corners. Friable consistency.			Shell and roots	Yes
	35 cm	Sand – mottled in colour. Friable to firm consistency.			I small rock chip - white. Roots.	No
	45 cm	Sand – loose consistency.			Roots	No
	55 cm - 50x50 quadrant	Sand – loose consistency.			N/A	No

Test pit	Spit Depth	Soil Description	Munsell Chart	pH Level	Inclusions	Finds
	north corner					
3	5 cm	Sand - loose consistency	2.5Y 3	5	Organic matter	No
	15 cm	Sand - friable to firm consistency			Roots and charcoal	No
	25 cm	Sand and organic matter. Loose to friable consistency.			Organic matter clump top right corner, roots.	No
	35 cm	Sand - loose consistency			Roots	No
	45 cm	Sand - loose to friable consistency			Roots	No
	55 cm	Sand - loose to friable consistency. Colour is slightly lighter bordering to yellow. Sterile layer.			Roots	No
	65 cm	Sand - loose consistency			Roots	No
4	5 cm	Sand - loose consistency	7.5 YR 5	5	Roots (vertical and horizontal. Introduced rock and porcelain (small fragments).	No
	15 cm	Sand - loose consistency			Roots, small amount of charcoal.	No
	25 cm	Sand - loose consistency			Roots, less charcoal evident.	No
	35 cm	Sand - loose consistency			Less roots evident	No
	45 cm	Sand - loose consistency			Roots	No
	55 cm	Sand - loose consistency			Roots in wall of pit.	No
	65 cm	Sand - loose consistency			Roots, one piece of mudstone	No
	75 cm	Sand - loose consistency. 50 x 50 quadrant south west corner. Sterile			No	No
	85 cm	Sand - loose consistency. 50 x 50 quadrant south west corner. Sterile			No	No
5	5 cm	Sand - loose consistency.	2.5Y 3	5.5	Roots, nuts.	No

Test pit	Spit Depth	Soil Description	Munsell Chart	pH Level	Inclusions	Finds
		Damp to wet texture.				
	10 cm	Sand – loose to friable consistency. Damp.			Roots, organic debris	No
	20 cm	Damp sand – loose to friable consistency. Slight colour change due to moisture content.			Roots and minimal amount of charcoal.	No
	30 cm	Sand – loose consistency. Drier. Change of stratigraphy due to moisture content.			Minimal charcoal fragments. Roots.	No
	40 cm	Sand – loose consistency. Drier.			Less roots, increase in charcoal from last spit.	No
	50 cm	Sand – loose consistency. Drier.			Less charcoal fragments. Still some roots.	No
	60 cm	Sand – loose consistency. Drier. Sterile.			Less charcoal. Roots in pit walls.	No

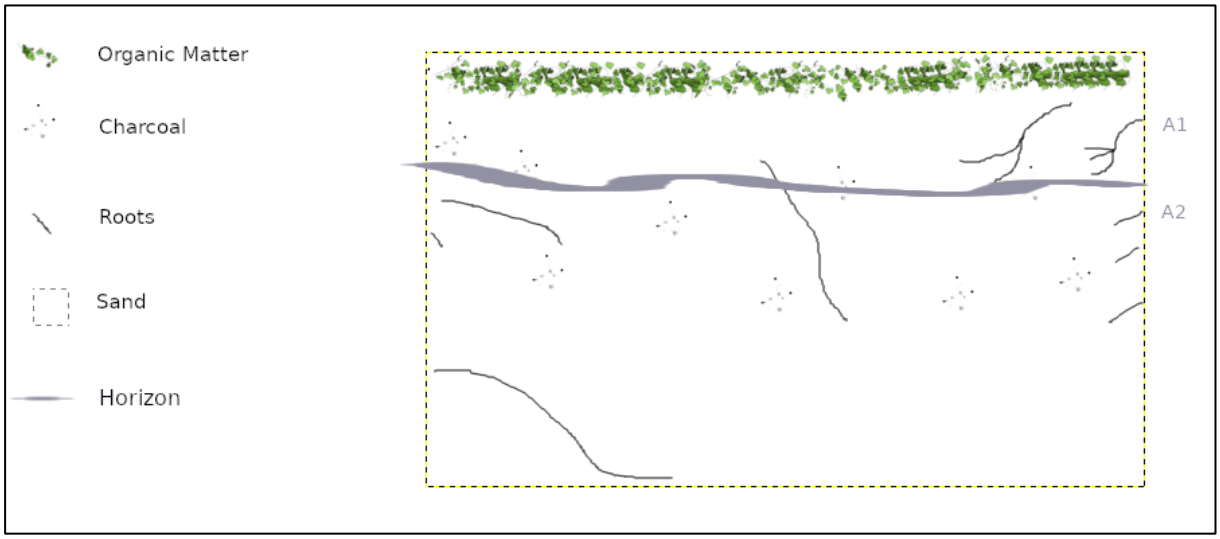


Figure 5: Typical stratigraphy of Bobs Farm test excavations.

8.3 Archaeological Sites

The AHIMS register will be updated through submission of ASIRF. Photographs are located in **Appendix III**. Site locations (**Figure 4**) coordinates are in **Table 11**.

Table 11: Test Pit Location Coordinates

Test Location Name	Easting	Northing	WGS 84 Zone
38-4-2016 (Pit 5)	406361	6373319	56
38-5-0350 (Pit 4)	406491	6373266	56
38-5-0351 (Pit 3)	406549	6373306	56
38-5-0352 (Pit 2)	406592	6373521	56
38-5-0353 (Pit 1)	406919	6373526	56

8.3.1 38-4-2016

This site was labelled as test pit 5. It reached a depth of 60 cm. The site had no cultural finds. A small amount of charcoal was located in spits two to six.

8.3.2 38-5-0350

This site was labelled as test pit 4 and reached a depth of 85 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spits two and three.

8.3.3 38-5-0351

This site was labelled as test pit 3, which reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spit two.

8.3.4 38-5-0352

This site was labelled as test pit 2 and reached a depth of 55 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. In spit 2 – 15 cm two pieces of shell were identified during the sieving process. One piece was a cockle shell fragment and the second was a fragment with a small inner spiral, possibly from a Mud Whelk. In spit 3 – 25 cm one piece of cockle was located within the pit during the excavation in the northern centre half and one cockle fragment was located during the sieving. At further depths no other shell contributions were located. One tiny piece of white stone was located as an inclusion in spit 4 – 35 cm, no diagnostic marks of human tool manufacture existed.

8.3.5 38-5-0353

This site was labelled as test pit 1 and reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spits two to six. The original shell located in 2014 was not relocated, however a downed tree was across part of the site.

8.3.6 Site Integrity

The site, as previously documented, has a number of disturbances, particularly agricultural from the 1990s onward. The areas investigated were discovered in 2014 AECOM survey (AECOM 2015a). In the corresponding years some if not all of the locations appear to have received reduced use and

maintenance evident through vast regrowth of vegetation along tracks and general disuse such as a tree across a track. This is particularly evident with pit 1 and pit 4 locations. Evidence of past landuses are evident in Pit 4 whereby broken porcelain was found at 5 cm depth. Bioturbation is also a disturbance that needs to be considered. Balek (2002, pp. 43-44) describes the impact of various animals bringing items to the surface from as depth as little as 30mm to 7000mm over a 1000-year period. This can also be impacted by humidity levels as Balek notes that in humid areas 30-50cm of soil overturning can occur in less than 1000 years. The Bureau of Meteorology (2016) 9am and 3pm average relative humidity maps note a 9am humidity average of 80% and a 3pm average between 50-60%. This data could be used to argue that the area has a moderate to high level of humidity which might affect the turnover timeframe.

8.4 Potential Modified Trees

Trees noted as having potential cultural modifications near pit 5 were re-examined. As noted during the original survey, the two trees did not appear to have axe marks visible. Five trees (Advitech 2020) were originally suspected of human modification, though the majority of suspect trees were hollow and did not have a dry face present, as well as having evidence of fire, pest damage and recent human damage (metal peg/nail). Locations are highlighted in **Figure 6** and **Table 12**. Photographs of trees one, three, four and five are located in **Appendix III**. The assessment of all suspected trees is to clarify if any requirements of management are needed in the future Aboriginal Cultural Heritage Management Plan (ACHMP). Principal modified tree features according to Field Manual for Aboriginal Scarred Trees in NSW (DEC 2005, pp. 10-11) include:

- Dry face;
- Overgrowth;
- Epicormic stem; and
- Dieback.

It was deemed that no principal features were present at the inspected trees. Further details of the inspected trees are below.

Table 12: Tree location coordinates.

Name	Easting	Northing	WGS 84 Zone
Tree One	406371.83	6373353.29	56
Tree Two	406304.60	6373251.64	56
Tree Three	407119.61	6373669.77	56
Tree Four	407118.50	6373668.09	56
Tree Five	407109.10	6373671.33	56

8.4.1 Tree One

Tree one was re-examined by the RAPS from the Worimi LALC, Murrooma and Nur-Run-Gee and Jake Brown from Advitech. Due to the damage to the tree including human (metal peg), hollowness (potentially termites) and uneven shape of scars on the tree it was determined in consultation that the damage was the result of natural damage. This is not a scar tree.

8.4.2 Tree Two

Tree two was also re-examined by the RAPS from the Worimi LALC, Murrooma and Nur-Run-Gee and Jake Brown from Advitech. The nature of the damage also natural with hypothesis that it came from a twin branch that separated at an earlier point of growth. This tree was previously mentioned in Advitech (2020, p. 33) as possessing low probability of being culturally modified. Due to an error with the camera no photographs are available. This is not a scar tree.

8.4.3 Tree Three to Five

Based on the original assessment in 2019 and photographic evidence, it is suggested that the damage is natural from fire damage, branch removal and disease. Referring to the Field Manual for Aboriginal Scarred Trees in NSW (DEC 2005, pp. 36-49) the impacts on the trees inspected at the study area have evidence that can be attributed to natural or recent human impacts such as described in the field manual:

- Trauma damage;
- Storm and fire damage;
- Faunal damage; and
- Impact and abrasion damage.

Particular evidence that was noted during the survey was fire damage and machine damage. These trees are all located near a residential dwelling. Also based on the larger lot to the south vegetation density is considerably lower which suggest land clearing, as well as cattle and evidence of cattle were noted on this property during the Advitech lead surveys. The three trees are also located near the main driveway for the property. These are not scar trees.

8.5 Spatial Patterning, Activity Types and Activity Areas

8.5.1 Spatial Distribution

Predominantly, the existing spatial distribution centres on the northern side of lot 254 DP753204. This includes the discovery of shell located in test pit 2 (site 38-5-0352). During the excavation, shell was found along tracks, predominantly on ridge near test pit 2. However, previously one example of shell was located on the southern side on the lower / waning slope of the dune and vegetated area. This was typical across the site during all recorded site expeditions. Typically, items are isolated on sandy exposed soil/tracks or on exposed soil in lightly revegetated areas, as well as in the orchard area.

8.5.2 Chronology

Based on the location, soil and geomorphology discussed in the ACHAR (Advitech 2020), connected with the outer barrier boarding the interdunal depression, The surface finds and finds at test pit 2 (site 38-5-0352) at shallow depths suggest more recent activity due to higher elevation in the soil stratigraphy, whether this be from bioturbation or human activity, or from previously being a transgressive dune.

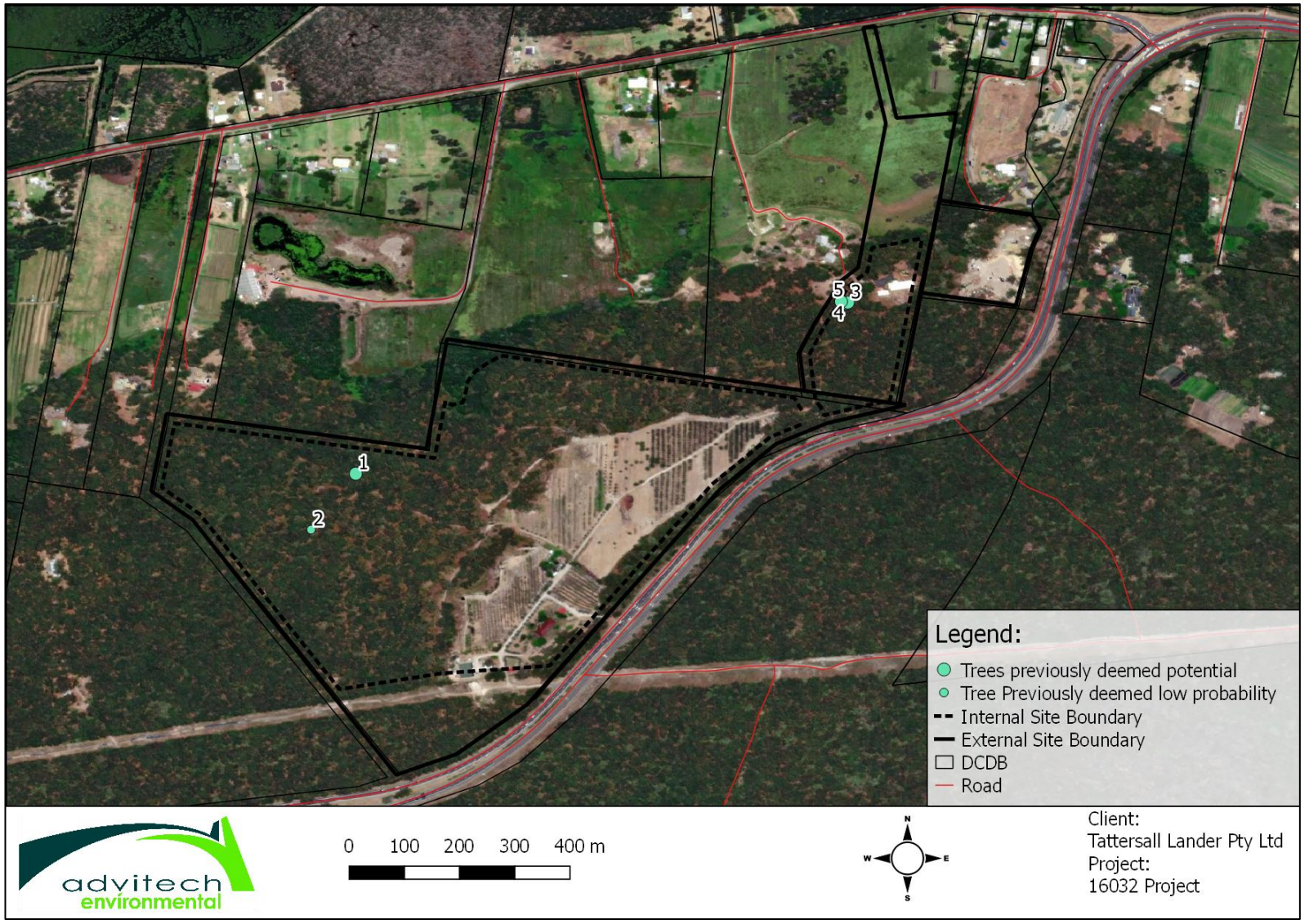


Figure 6: Tree location map.

8.6 Interpretation

The results of the test excavation have shown limited evidence of past Aboriginal land use and this is likely due to a number of factors including:

- The project area may have been used for travel and/or hunting and gathering which manifest in the archaeological record as very low-density artefact scatters and/or isolated finds;
- Past and present land uses would have displaced and/or destroyed evidence of past Aboriginal land use;
- The locations of testing include disturbed areas due to the recorded presence of shell and factored in locations where items have been recorded, items when originally disturbed may have travelled due to natural soil movement or animal or human impacts;
- Given the nature of the site the sample of test excavations show that there is a low potential for surface finds to translate to subsurface deposits;
- The charcoal found in all pits as well as evidence of burnt roots and evidence of burning on trees in the project area suggest bushfire or human related burning, not campfires due to sparse concentration in the test pits;
- Shell is a common item on registered on AHIMS in the region; and
- The edible nature of the species of shell suggest the potential for human involvement for being found in their current locations.

The scattered small (typically less than 5mm in size) charcoal located in most of the test excavation locations except Pit 2 and normally within the top 25cm, though it can spread lower in sparser quantity. The discovery of the charcoal across most of the test excavation locations indicates evidence of continued burning across the site to a depth of 60 cm in some locations, which has also been noted across the wider area as well (McCardle 2012, p.9 and DPIE n.d.) The addition of evidence of burning on trees through charcoal on internal hollows also provides evidence of fire in the landscape over many years. Byrne, Dotte-Sarout and Winton (2013, p.96) describe scattered charcoal as representing trampling of the remnants of numerous fires or multiple wood collection events in human occupation related events; in the case of Bobs Farm, the correlation of registered sites and evidence of sparse charcoal in four out of five may have a tenuous link. Given the broader evidence of burning on trees, this evidence may support climate conditions that supported fire activity or human behavioural change. Mooney, Webb and Attenbrow (2007, p.190) note that fire as a method of landscape control was used on some landscapes by Aboriginal peoples, though in some cases such as Griffith Swamp, fire frequency has increased since European colonisation.

The surface level, depth and slope also contribute to the potential for movement. Given the slope of the study area, this would affect the distribution rate. Rick (1976, pp. 141-144) discusses that morphology and ground cover influences the dispersal of items, with heavier and denser items more prone to downward slope movements. Balek (2002, pp. 48-49) warns that a stable geomorphic surface does not mean that the soil is static, with biomechanical processes creating the potential for artefacts movement. The level of impact can also depend upon the type of land use and movement patterns such as pedestrian, vehicle and animal. Weaver and Dale (1978, pp. 453-456) researched the impact of different movements on an area and determined slopes are more impacted than flat sites.

Additionally, they also documented whilst horses and pedestrians have greater impact on vegetation and soil downhill, motorbikes have a greater effect when travelling uphill. There was evidence of motorcycle use present through tyre tracks present at the project site and recreational horse riding. This may have affected the recorded site distribution of surface shell finds in 2014 and contributed to the continued dispersion of shell in the following years to the current test excavation which noted limited to

no shell in the vicinity of the registered sites, except for test pit 2, which had up to a dozen pieces of shell scattered east of the registered coordinates up to 200m away.

8.7 Regional Context

It is noted through analysis of previous regional reports and AHIMS site details, that shell is the predominant artefact type. The broader regional area has provided finds of middens (Silcox 1999; Brayshaw 1988; Dallas 1982; Villiers 1981; Dyall 2004) and scatters (Baker 1994; Dyall 1980, 2004). The 2015 AECOM ACHAR of the site notes that some of the registered Aboriginal parties notes that the dunes running through the site were connected to a songline.

Other sites in the area include:

- Birubi Point Aboriginal Place. This Aboriginal Place is located at Anna Bay;
- Soldiers Point Aboriginal Place. This Aboriginal Place is located at Soldiers Point (3km south east of the study area). Soldiers Point has a continuous history of Aboriginal settlement and cultural activity, particularly fishing. It includes burials and a men's ceremonial area;
- Dark Point Aboriginal Place. This Aboriginal Place consists of 7km of coastline within the Myall Lakes National Park. It was a gathering and ceremonial place for clans of the Worimi and contains Aboriginal sites, objects and burials;
- Gooreenggai (North Arm Cove) Ceremonial Site. A men's ceremonial site consisting of stone arrangements and located on Baromee Hill; and
- Buladelah Mountain. An Aboriginal Place consisting of a variety of cultural sites and considered a spiritual place for Aboriginal ancestors.

8.8 Research Questions

1. What species of shell were located during fieldwork and how does this reflect on known Aboriginal food sources?

   Cockle and Mud Whelk were located during this fieldwork. From spit 2 – 15cm in Pit 2, one piece was a cockle shell fragment and the second was a fragment with a small inner spiral, possibly from a Mud Whelk. In spit 3 – 25 cm one piece of cockle was located within the pit during the excavation in the northern centre half and one cockle fragment was located during the sieving. Surface finds consistent with the records of the site have also been seen (small surface scatters of shell to isolated shell (cockle, whelk and oyster)). As the species located during fieldwork are edible species, this indicates that this could be connected to known Aboriginal food sources. This could be used together with regional data to connect the study area with previous Aboriginal use based on the known food source and small concentrations of shell.

2. What do the results of field investigations suggest about the land use of Aboriginals in the study area?

   Given the diffused concentration and lack of supporting subsurface traces of shell at most of the registered AHIMS sites, this presents a potential Aboriginal land use of transitory visits/occupation. This is based on sparse remnant evidence of Aboriginal food sources (shell) with limited subsurface correspondence. Additionally, based on wider regional data such as middens and water sources, this suggests that other areas may have been of a higher resource value.

3. Does the landform influence the find locations or is this predominantly influenced by recent human disturbance?

   Based on the predictive model, other research resources and field-based evidence, recorded sites tend to be on landforms with a slope no greater than 30 degrees, associated with stabilised and transgressive dunes, as well as in close proximity to mapped watercourses. Based on the dense vegetation that inhibits visual inspection across most of the site, as well as the human disturbance, animal disturbance (burrows, horses/cattle) and natural bioturbation, the find locations appear at disturbed locations with increased visibility, the majority of surface finds were associated with the dunes, though the only subsurface finds were located at one of the higher points excavated. Based on the evidence it could be argued that at the study area disturbance plays a more important role in find locations than landform.

9. ASSESSMENT OF IMPACTS

9.1 Impacts

Detailed descriptions of the impacts are provided in **Section 1.5** and the results of the survey in **Section 6**. The OEH (formerly DECCW) *Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales* (2010b, p. 21) describes impacts to be rated as follows:

1. Type of harm: is either direct, indirect or none;
2. Degree of harm is defined as either total, partial or none; and
3. Consequence of harm is defined as either total loss, partial loss, or no loss of value.

As shown in **Table 13**, the previously identified shell are still valid sites, though they have been impacted by the test excavation which potentially could alter their future research value.

Table 13: Impact Assessment

Site Number	Type of harm	Degree of Harm	Consequence of Harm	Representative	Research potential	Scientific potential	Site status
38-4-2016	Total loss	Total	partial loss	High	Low	Low	Partially destroyed
38-5-0350	Total loss	Total	partial loss	High	Low	Low	Partially destroyed
38-5-0351	Total loss	Total	partial loss	High	Low	Low	Partially destroyed
38-5-0352	Total loss	Total	partial loss	High	Low	Low	Partially destroyed
38-5-0353	Total loss	Total	partial loss	High	Low	Low	Partially destroyed

10. SIGNIFICANCE ASSESSMENT

10.1 Cultural Significance

The Burra Charter (2013) defines 'cultural significance' very broadly to include 'aesthetic, historical, scientific, social or spiritual value for past, present or future generations'. This definition captures places of cultural significance to Indigenous cultures. It also includes places that provide a physical location that is integral to the existence, observation and practice of intangible heritage. The Burra Charter definition of cultural significance encompasses all forms of spirituality, regardless of the culture from which it emanates. Similarly, aesthetic value is not limited to a 'western' perception of aesthetics (taken from ICOMOS Practice Note: The Burra Charter and Indigenous Cultural Heritage Management).

10.1.1 Aesthetic Significance

The Burra Charter (2013) defines 'aesthetic significance' as the sensory and perceptual experience of a place which includes visual, sound, smell and other strong influences on human attitudes, feelings and thoughts.

10.1.2 Historic Significance

The Burra Charter (2013) defines 'historic significance' though aspects such aesthetics, architecture, art, science, society and spirituality. Additionally, the historical value may have an influence or may have been influenced by events.

10.1.3 Scientific Significance

The Burra Charter (2013) defines 'scientific significance' as relating to information and data such as rarity, quality, representativeness, potential to contribute to knowledge and answer research questions.

10.1.4 Social/Spiritual Significance

The Burra Charter (2013) defines 'social and spiritual significance' as the association with a particular community or cultural group as well as meanings, values and practices that could contribute to an identity, community or cultural group. This could relate to physical or intangible connections.

Table 14: Significance Assessment

	38-4-2016	38-5-0350	38-5-0351	38-5-0352	38-5-0353
Aesthetic	Low	Low	Low	Low	Low
Historic	Low	Low	Low	Low	Low
Scientific	Low	Low	Low	Low	low
Social/Spiritual	Indeterminate	Indeterminate	Indeterminate	Indeterminate	Indeterminate
Rationale: Based on this assessment, shell documented at site 38-5-0352 provides the only strong representation of edible shellfish and potential human occupation evident, though this may be from people passing through the area, not long-term occupation. The disturbed nature and greater representation of shell on the surface than in subsurface deposits at locations recorded in 2014 is likely to be linked to dispersal of shell through recent site disturbance.					

11. MITIGATION AND MANAGEMENT STRATEGIES

Specific strategies considered below for the management of the study area relate to the *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (DECCW 2010b), the *Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011), and the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW 2010c).

11.1 Conservation/protection

Conservation is the first option considered and can be suitable for all sites, including high archaeological significance and/or cultural significance. Conservation considers the care required for an indigenous site or place so to retain its significance, whilst also managing the site in a way that considers the attachment that people have.

The shell located in Pit 2 was relocated on site and reburied under as per requirement 26 of the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW.* The location is recorded the same as Test Pit 1 (**Table 15** and **Figure 7**). Photographs of the reburial location and storage techniques in accordance with the Code of *Practice for Archaeological Investigation of Aboriginal Objects in NSW* are in **Appendix III.**

Table 15: Artefact Reburial Details.

Burial Depth	25 cm
Location description	Test Pit 1
Landscape features	Fallen tree across revegetated track, pink flagging tape on boundary fence approximately 6 metres west from the fence.
Coordinates WGS 84 Zone 56	Easting: 406919 Northing: 6373526
Photographic Record	Appendix III

Based on the reburial location and current plans of development, it is likely this location is within the buffer zone surrounding the sand mine. It is suggested that the ACHMP finalises long term storage of any salvaged items including these items and has arrangements in place if they need to be relocated.

11.2 Further investigation

Based on the current assessment it is advised that no further assessment is undertaken at present. If the project is approved and any archaeological work is conducted under the intended ACHMP (monitoring of land clearing and inspection of rejected commercial sand, further analysis will be required.

11.3 AHIP

If the project is approved under State Significant Development, an AHIP will not be required; however, an ACHMP and continued consultation with the Registered Aboriginal Parties will be necessary.

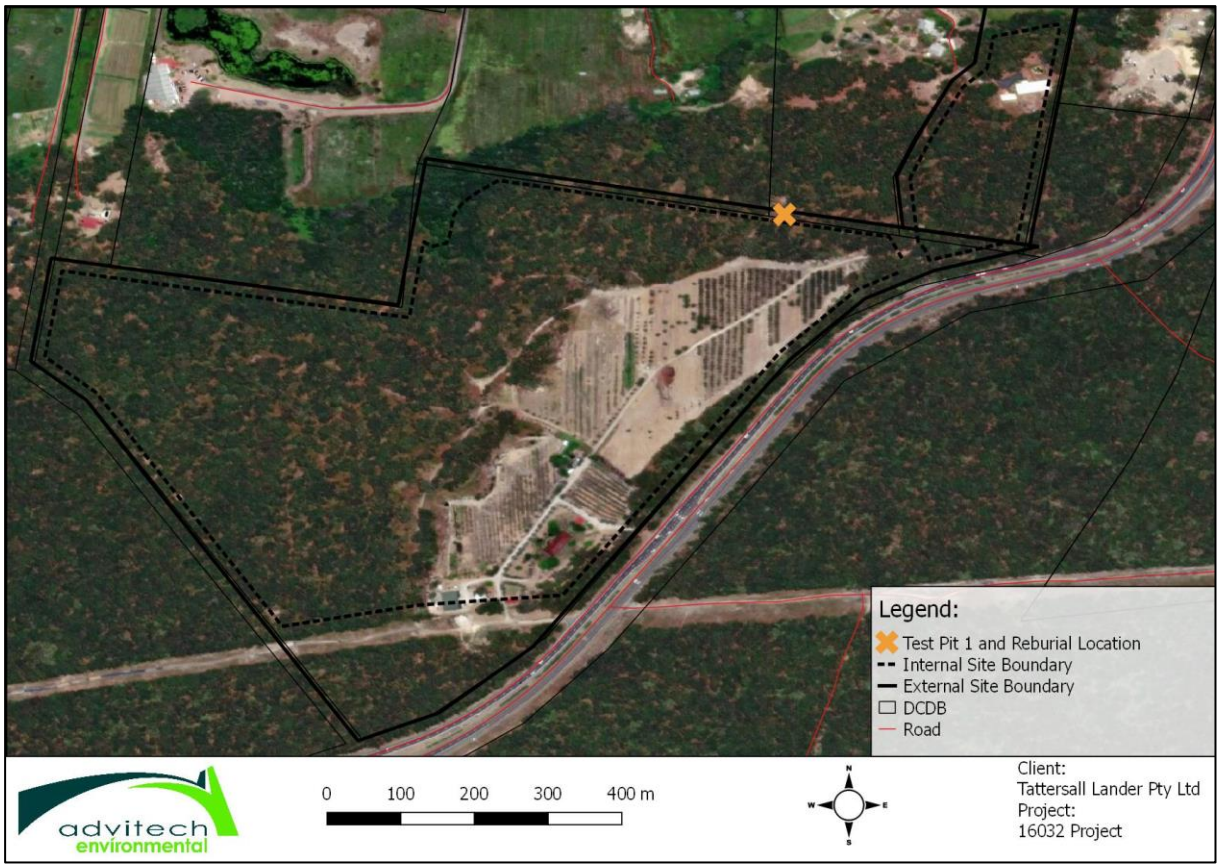


Figure 7: Reburial Location

12. RECOMMENDATIONS

The following recommendations are made:

1. The individual or persons responsible for the management of onsite works will ensure that all site personnel are made aware of the statutory legislation protecting sites and places of significance. Of particular importance is the National Parks and Wildlife Amendment (Aboriginal Objects and Aboriginal Places) Regulation 2010;
2. Should any Aboriginal objects be uncovered during works, activities should halt in that location and the RAPS notified as per the ACHMP and the Environmental Line contacted on 131 555 to report the discovery; and
3. AHIMS will need to be updated.
4. Preparation of an ACHMP with consultation with RAPs and approval by Heritage NSW.

13. REFERENCES

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Appendix I

Consultation

Bobs Farm Sand Mine

Date	Communication Type	Sent/Received	Advitec Personnel Making/Taking Comms	Internal/External Comms	Name of Sending/Receiving Stakeholder	Content of Comms	Actions
10/04/2019	Phone	Sent By	Jake Brown	External	OEH	The number provided was wrong, I spoke to Kathrine and left a message for Steven Cox the contact officer. Kathrine gave me Steven's number and I tried the number left another message regarding consultation query.	Message left with office and on voicemail
12/04/2019	Phone	Sent By	Jake Brown	External	OEH - Steven Cox	Called Steven again reached voicemail and did not leave second message.	No message left
12/04/2019	Email	Sent By	Jake Brown	External	OEH	Email sent to rog.hcc@environment.nsw.gov.au requesting clarification of consultation requirements and mentioning sites do not appear to be registered.	
15/04/2019	Phone	Sent By	Jake Brown	External	OEH	Called OEH conservation and regional development Newcastle and asked for contact with Steven Cox or relevant party that could assist with answering questions. Message and phone number taken and told that someone would be in contact.	
16/04/2019	Phone	Received By	Jessica Blackman	External	OEH - Gillian Goode	Gillian called in response to correspondence. AECOM site registration will be investigated, consultation out of date. Discussion about ACHMP and AHIP	
6/05/2019	Phone	Sent By	Jake Brown	External	OEH - Gillian Goode	Called Gillian to ask question about follow up questions	Message left on voicemail
10/05/2019	Email	Sent By	Jake Brown	External	OEH - Gillian Goode	Email sent to Gillian with questions concerning consultation and AHIP process	
15/05/2019	Phone	Sent By	Jake Brown	External	OEH	Called OEH and asked to speak to Gillian Goode or Steven Cox. Bernedette said both unavailable and I left a message for Gillian.	
15/05/2019	Phone	Received By	Jake Brown	External	OEH - Gillian Goode	Gillian called and left a message as I had left for the day. Call was follow up to previous contact.	
16/05/2019	Phone	Sent By	Jake Brown	External	OEH - Gillian Goode	Called Gillian after return call 15/05/2019, message left	
17/05/2019	Email	Sent By	Jake Brown	External	OEH - Gillian Goode and Steven Cox	Email sent to both Gillian and Steven asking for clarity on project points	BCC sent to Bob Lander. Read receipt requested. Receipt from Steven, ROG BOX
21/05/2019	Email	Received By	Jake Brown	External	OEH - Gillian Goode	Gillain tried to call previous week and I was not in the office. Email includes site cards from AECOM sites which were not registered. Gillian states that IEH is writing a response to queries about Bobs Farm.	Reply sent saying attempted call to Gillian next morning.
6/06/2019	Email	Sent By	Rod Bennison	External	OEH - Gillian Goode	Follow up email to Gillian asking for details about job, after a phone conversation	
13/06/2019	In Person	Sent By	Jake Brown	External	OEH - Gillian Goode and Steven Cox	Jessica and I met at OEH with Gillian and Steven to discuss project. OEH outlined they require an ACHA as other is considered out of date, advise excavation and ACHMP. Jake requested written comfirmation and sent email to Gillian and Steven outlining meeting points and requesting confirmation. Phone after meeting from Gillian, discussing excavation points shown in meeting and refering a few document as sources/references.	Email reply from confimration email from Steven asking future correspondence sent to department email, not personal work emails. Confirmation email resent to department email as requested 14/6/2019.
14/06/2019	Email	Sent By	Jake Brown	External	Hunter LLS	Initial ACHA consultation letter sent	Automated acknowledgement response received
14/06/2019	Email	Sent By	Jake Brown	External	OEH Newcastle	Initial ACHA consultation letter sent	OEH response from Steven Cox 20/6/2019
14/06/2019	Email	Sent By	Jake Brown	External	Port Stephens Council	Initial ACHA consultation letter sent	Automated acknowledgement response received. Response received 18/6/2019 saying contact Worimi LALC
14/06/2019	Email	Sent By	Jake Brown	External	NTSCORP	Initial ACHA consultation letter sent	
14/06/2019	Email	Sent By	Jake Brown	External	NNTT	Initial ACHA consultation letter sent	Response 18/6/2018 - Freehold land
14/06/2019	Email	Sent By	Jake Brown	External	Registrar Office	Initial ACHA consultation letter sent	
14/06/2019	Email	Sent By	Jake Brown	External	Worimi LALC	Initial ACHA consultation letter sent	
17/06/2019	Email	Sent By	Jake Brown	External	Fairfax - Port Stephens Examiner: Vicki Laidler	Organising classifieds ad for community consultation - 4 July 2019	Ad placed for 4 July 2019
18/06/2019	Email	Received By	Jake Brown	External	Port Stephens Council - Amber Herrmann Community Development and Engagement Coordinator	Response to consultation letter saying consult Worimi LALC	
18/06/2019	Email	Received By	Jake Brown	External	NNTT Geospatial search	NNTT concludes land is Freehold	
20/06/2019	Email	Received By	Jake Brown	External	OEH - Steven Cox	OEH consultation response with Port Stephens LGA names	
20/06/2019	Email	Sent By	Jake Brown	External	Fairfax - Port Stephens Examiner: Vicki Laidler	Inquiry sent to confirm ad was placed and no further details needed	
28/06/2019	Email	Received By	Jake Brown	External	Jamie Merrick - Worimi LALC	Registered interest for Worimi LALC. Cc of Lennie and Anthony Anderson	Record in log and sent reply outlining dates for general registration and methodology
28/06/2019	Email	Received By	Jake Brown	External	Lennie Anderson	Nur-Run-Gee representing Worimi TEOG registered interest	Reply sent thanking Lennie for registration
2/07/2019	Email	Sent By	Jake Brown	External	A1 Indigenous Services, AGA Services, Cacatua Culture Consultants, Corroboree Aboriginal Corporation, Didge Ngunawal Clan, Divine Diggers Aboriginal Cultural Consultants, Hunters & Collectors, Karuah Indigenous Corporation, Karuah Local Aboriginal Land Council, Kawul Pty Ltd trading as Wonn1 Sites, Lakkari NTCG, Lower Hunter Aboriginal Incorporated, Lower Hunter Wonnarua Cultural Services, Mindaribba Local Aboriginal Land Council, Murra Bidgee Mullangari Aboriginal Corporation, Mur-Roo-Ma Inc., Roger Matthews Consultancy, Wattaka Wonnarua CC Service, Widescope Indigenous Group, Wonnarua Elders Council, Worimi Traditional Owners Indigenous Corporation.	Initial contact for potential interested parties (OEH list)	Email with letter attached
2/07/2019	Email	Sent By	Jake Brown	External	Jeffery Matthews, Wonnarua Elders Council and Carol Ridgeway-Bissett	Initial contact for potential interested parties (OEH list)	Letter sent
2/07/2019	Email	Received By	Jake Brown	External	Corroboree Aboriginal Corporation - Marilyn Carroll-Johnson	Registered interest - requests details not sent to OEH and LALC	Received EOI
2/07/2019	Email	Received By	Jake Brown	External	Murra bidgee Mullangari - Ryan Johnson	Registered interest - site officer Ryan Johnson (sent by Darleen)	
2/07/2019	Email	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Registered interest	
4/07/2019	Email	Received By	Jake Brown	External	Mur roo ma inc - Anthony Anderson	Registered interest	Bec Young (Operation Manager), Anthony Anderson (CEO)
5/07/2019	Email	Received By	Jake Brown	External	Worimi TOIC - Candy Towers	Registered interest	
5/07/2019	Email	Received By	Jake Brown	External	Widescope - Steven Hickey	Registered interest	
9/07/2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Registered interest	
15/07/2019	Email	Received By	Jake Brown	External	A1 Indigenous Services - Carolyn Hickey	Registered interest	
19/07/2019	Email	Received By	Jake Brown	External	All RAPs	Methodology sent for review/asking for any relevant cultural knowledge for the site.	Bcc all RAPs in email with methodology and reply forms.
19/07/2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Responsed with forms from methodology. Inidcated he had cultural knowledge of the are and was willing to verbally provide this for report at the time of response.	
20/07/2019	Email	Received By	Jake Brown	External	Deidre Perkins	Late registered party, methodology sent 22 July	LATE REGISTERING
21/07/2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Late registered party, methodology sent 22 July	LATE REGISTERING- Provided cultural knowledge holders: herself, Worimi LALC, Candy Towers and Lennie Anderson
22/07/2019	Email	Received By	Jake Brown	External	Deidre Perkins	Question sent regarding the methodology email and late registration. Response saying email from 20 July was accepted as registration.	
23/07/2019	Email	Received By	Jake Brown	External	Ryan Johnson - Murra Bidgee Mullangari	Responded to methodology - agreed with method	Replied to read receipt
23/07/2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Responded to methodology - agreed with method	
25/07/2019	Email	Received By	Jake Brown	External	Tom Miller - Lower Hunter Wonnarua Cultural Services	Respondeed late to registration - accepted and sent methdology for review. Mentioned nominal reply date 20 August and that the report should be out early September for review.	Tom cc Steven Cox from OEH. Reply included Steven.
30/07/2019	Email	Sent By	Jake Brown	External	Jamie Merrick - Worimi LALC, Anthony Anderson - Mur-Roo-MA and Lennie Anderson - Nur-Run-Gee	Inquiring about ability to do fieldwork. If possible please provide insurance details. Asked Lennie if details had chnaged since Shearwater job (though vehicle was not provided). Insurances (public liability, workers comp and vehicle) and daily/hourly rate.	
30/07/2019	Email	Received By	Jake Brown	External	Jamie Merrick - Worimi LALC	Replied that WLALC can provide a RAP for Bobs Farm. Included rates for day and half day. Also mentioned knowledge holders Anthony Anderson, Lennie Anderson and Dave Feeney. Second email with insurances attached.	Reply sent thanking Jamie for emails and information, as well as saying that I will be in contact mid August to confirm details. Information saved.
30/07/2019	Email	Received By	Jake Brown	External	Lennie Anderson	Replied that Nur-Run-Gee can provide a RAP for fieldwork. Confirmed insurances and rates the same. Likely vehicle insurance policy number provided.	Reply sent thanking Lennie, as well as saying that I will be in contact mid August to confirm detail. Information saved.
1/08/2019	Email	Received By	Jake Brown	External	Mur roo ma inc - Bec Young	Replied that Mur Roo Ma can provide a RAP. Provided public liability and workers comp insurances and rates.	reply sent thanking Bec for information, as well as saying that I will be in contact mid August to confirm detail.
16/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma inc, Worimi LALC and Nur Run Gee (field RAPS)	Details about field work meeting - 8:30 am start, meeting address and map, contact details.	
19/08/2019	Email	Sent By	Jake Brown	External	OEH and Worimi LALC	Sent notification of registered parties minus those who wished to withhold details	

20/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma Inc - Bec Young	Agreed with methodology and noted the area and lot had connection to spiritual, cultural and social values. Mentioned Chris Collison will be the RAP from Mur roo ma Inc for survey.	
20/08/2019	Email	Sent By	Jake Brown	External	DPIE (OEH) and Worimi LALC	Amendment to notification list	
29/08/2019	Phone	Sent By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Called to asked Dave if he had any additional information as indicated on methodlogy response. I asked Dave if he would prefer to responded after reading draft report. He indicated that was preferable.	
30/08/2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Asked for details of field work for invoice.	Sent reply to all fieldwork RAPs
30/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma inc, Worimi LALC and Nur Run Gee (field RAPS)	Thanked groups for effort during fieldwork. Mentioned field hours for 26 and 27 (8am to 1:30pm) and asked invoices to be made out to Ammos Resource Management Pty Ltd. Mentioned I would forward the invoices to my client upon receipt.	
31/08/2019	Email	Sent By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Nur Run Gee normally charges for full day after 4 hours.	CC included Mur Roo Ma and Worimi LALC
6/09/2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Sent invoice for survey	Forwarded to client and responded to RAP to acknowledge receipt of invoice
9/09/2019	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Sent invoice for survey Friday 6/9/2019	Forwarded to client and responded to RAP to acknowledge receipt of invoice
10/09/2019	Email	Received By	Jake Brown	External	Worimi LALC	Sent invoice for survey	Forwarded to client (invoice says Brendan Lilley not Jaime Merrick)
12.9.2019	Email	Sent By	Jake Brown	External	All RAPs	Draft ACHAR sent for review. Large file so three emails sent. 1. report, 2. appendices 1, 3. appendices 2.	
12.9.2019	Email	Sent By	Jake Brown	External	OEH Newcastle	Draft ACHAR with limited appendices due to size and test excavation methodology sent to OEH for potential review as advised in May meeting.	Read receipt received from OEH 12.9.2019
8.10.2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Karuah Indigneous Corp has been having trouble with past email address and has moved to dave.feeney@bigpond.com as a temporary measure	
9.10.2019	Email	Received By	Jake Brown	External	All RAPs	Reminder of ACHAR review ending 11 October 2019 if anyone wishes to comment	
9.10.2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Accepts and agrees with report.	
9.10.2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Supports recommendations, wishes to stress cultural values of the area and surroundings	
11.10.2019	Email	Received By	Jake Brown	External	Widescope - Steven Hickey	Supports recommendations of the draft ACHAR	
13.11.2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Bobs Farm ACHAR	
18.11.2019	Email	Received By	Jake Brown	External	Worimi LALC	Resent invoice. Return query confirmed same invoice and not error like before. Emailed client to follow up.	Forwarded to client. Reply from client forwarded 19.11.2019. Reply received from Worimi 2.12.2019 comfirming payment was received in September.
19.2.2020	Email	Sent By	Jake Brown	External	All RAPs	Sent email saying AHIP has been lodged. If anyone has queries please get in touch. Consultation will continue with ACHMP and test excavation.	
19.2.2020	Email	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Responded to update, looks forward to continued propject involvement.	
19.2.2020	Email	Received By	Jake Brown	External	Deidre Perkins	replied confirming receipt of email	
25.2.2020	Email	Received By	Jake Brown	External	Ryan Johnson - Murra Bidgee Mullangari	replied confirming receipt of email	
25.3.2020	Email	Sent By	Jake Brown	External	Worimi LALC, Murrooma and Nur Run Gee.	Asking about availbility in late April or Early May for test excavation.	
25.3.2020	Email	Received By	Jake Brown	External	Worimi LALC	Jamie Merrick responsed saying the LALC can have a representative available on the given dates	
25.3.2020	Email	Received By	Jake Brown	External	Murrooma	Bec responding saying they can provide a representative.	
25.3.2020	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Lennie said thank you for correspondence and let him know at earliest convenience.	
31.3.2020	Phone	Received By	Jake Brown	External	Worimi LALC	Brendan from the LALC called to say he was taking over the field work from Jamie for a while and the LALC was keeping minimum staff running. Asked about Bobs Farm and I said I would let him know as soom as possible and Advitech would follow government guideline for Coronavirus. Still intend to undertake dig in April/May.	
12.4.20	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Response to email from February saying looking forward to hearing from you soon.	
14.4.20	Email	Sent By	Jake Brown	External	All RAPs	Sent email notify status of project and test excavation AHIP.	
14.4.20	Phone	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Tamara called about 11:20am to ask about Bobs Farm. Wanted to know if there was a possibility of being included in the excavation. I said we were using the orginal three parties for continuty. For the report and ACHMP all parties would still be consulted. If one party can't supply a person for dig, i would consider Tamara for a position.	
14.4.20	Phone	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Rang to ask if his assistance was required on the project. I said at this time three groups from original project are involved. His involvement in the ACHMP and review of report are still valued.	
14.4.20	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Dave sent email saying is 7:30 on the 27 alright? I responded saying sorry for the confusion, his group was not one of the oringinal parties.	
14.4.20	Email	Sent By	Jake Brown	External	All RAPs	An email was sent to clarify who original three groups are and that input into the ACHMP and report review will be requested of all groups.	
15.4.20	Email	Received By	Jake Brown	External	Worimi TOIC - Candy Towers	Sent email saying she would like to be involved in the excavation. Replied saying I can't facilitate everyone being involved in fieldwork, however ACHMP and review of report are open to everyone.	Responses on 20 May further to discussion. I responsed saying the fieldwork had been organised and that I was not able to expand people on site.
15.4.20	Email	Sent By	Jake Brown	External	Worimi LALC, Murrooma and Nur Run Gee.	Sent email saying they should have received an email yesterday about the AHIP notice. AHIP will be followed. Moving work to 4 May due to public holiday. Maybe 8:30 am start. Happy to discuss.	
15.4.20	Email	Received By	Jake Brown	External	Murrooma - Bec	Bec confirmed a representative would be on site. Responded saying thank you.	
15.4.20	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Lennie confirmed Chris Collison will be available. Replied saying thank you and I will keep him up to date.	
28.4.20	Email	Sent By	Jake Brown	External	Worimi LALC, Murrooma and Nur Run Gee.	Sent email asking for proof of insurances (workers comp, public liability and vehicle insurance)	Response and proof from all parties
1.5.20	Email	Sent By	Jake Brown	External	All RAPs	Email to say that excavation dates are now 4 May due to error that I thought a public holiday was the previous week.	Responses from Lilly Carroll and Ryan Johnson about excavation. Confirmed previous email with three parties listed as site participants still held.
8.5.20	Email	Sent By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Sent invoice for test excavation	Passed onto client.
13.5.20	Email	Received By	Jake Brown	External	Murrooma	Asking about details of AHIP and limited flexibility in site choice once on site.	Responded that the five registered sites was what was approved and the coordinates of pits were in AHIP.
28.5.20	Email	Received By	Jake Brown	External	Murrooma	Invoice for test excavation received	Passed onto client.
8.7.20	Email	Sent By	Jake Brown	External	All RAPs	Sent draft test excavation report and ACHMP to all RAPs via email. Sent report via post as well	
23.7.20	Email	Sent By	Jake Brown	External	All RAPs	Sent email updating that no comments had been received on ACHMP. None on report either. Report consult ends on 5 August. Will email about ACHMP on 4 August or as comments come in.	
23.7.20	Phone	Sent By	Jake Brown	External	Charlene- Murra Bidgee Mullangari	Charlene called to say that given they weren't involved in fieldwork and are not getting paid to review report to comment will be forthcoming. I said I appreciated the call to notify of intent.	
24.7.20	Email	Received By	Jake Brown	External	Murrooma	Bec asked if any of her previous correspondence had been included in the report. I reponsed saying it was included in the correspondence log at present. Any comment about the report will in section 3 and appendix I.	
24.7.20	Email	Received By	Jake Brown	External	Deidre Perkins	Deidre responded saying no comment based on not being involved in the fieldwork.	Thanked Deidre for response
3.8.20	Email	Received By	Jake Brown	External	Worrimi LALC	Brendan Lilley called asking about response date and what format for response e.g. email. I said the end of the 5th was the response date and email was fine. Brendan said they had a few concerns.	
4.8.20	Email	Received By	Jake Brown	External	Worrimi LALC	Jamie Merrick responsed saying the LALC has a concern about RAPs not being able to move test excavation locations during excavation.	Responded saying this was the wording of the methodology and what was approved by BCD.
4.8.20	Email	Received By	Jake Brown	External	Murrooma	Response to test excavation report says dune area has an extremely strong cultural connection, and not sure 5 test pits is adequate for the area. Response to ACHMP says regular inspections (monthly or less need to be included. Supports Worimi LALC being care holders.	
6.8.20	Email	Sent By	Jake Brown	External	Worrimi LALC	Sent Jamie Merrick an email asking if Worimi LALC would be willing to store salvaged items under care and control agreement.	Responsed saying he would talk to Murrooma and Nur-Run-Gee

Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Thursday, 6 August 2020 9:17 AM
To: Jake Brown
Cc: murroomainc1@gmail.com; lennie.anderson011@bigpond.com
Subject: Storage

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake
I have not spoken to other raps yet but I don't they will have a problem with artefacts being stored at Worimi LALC

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 5 August 2020 9:16 AM
To: Jake Brown
Subject: Bobs Farm

Categories: Filed

Hi Jake
Worimi Local Aboriginal Land Council agree with the ACHMP but we would like to be there for any tree clearing and any ground disturbance and monthly or sooner inspections of stockpiles and the screened material

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Think before you print.

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Tuesday, 4 August 2020 2:07 PM
To: Jake Brown
Subject: Re: FW: Bobs Farm ACHMP
Attachments: Bobs Farm Excavation Response.docx; Bobs Farm Sand Mine ACHMP.docx

Categories: Filed

Hi Jake-
Please find attached the response to the test excavation report and ACHMP.

Thanks Bec

On Tue, Aug 4, 2020 at 10:28 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Dear RAPs,
>
> -
>
> Thank you for those you have responded so far. Responses about the ACHMP so far include:
>
> - People not wishing to comment as not having been involved in fieldwork;
> - No specific comments about the ACHMP when responding to the test excavation report.
>
> -
>
> The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP.
>
> -
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
>
> The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.

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If you have received this email in error, please delete it and notify us immediately.

-

-

-

From: Jake Brown
Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

-

Dear RAPs,

-

As mentioned in my previous email on the 8 July 2020, I am writing to you regarding the ACHMP. I have received no comments so far from any of the registered parties. Regarding the test excavation report also sent on the 8 July 2020, I have also received no comments so far, the review period for the report ends on the 5 August 2020.

-

I will send an email to all RAPs regarding any comments I receive on the ACHMP for your consideration. I will email about the ACHMP again on the 4 August 2020. If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe.

-

Regards,

-

Jake

-

Jake Brown Archaeologist

jake.brown@advitech.com.au

-

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upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.



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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Tuesday, 4 August 2020 10:07 AM
To: 'Jamie Merrick'
Subject: RE: Bobs Farm

Categories: Filed

Hello Jamie,

Thank you for your response. Your concern is noted. As discussed on site and in the report the locations were approved by BCD for the test excavation. The wording of the methodology and the recorded registered location from the original survey did not allow for onsite modification of the test excavation.

Additionally, do you have any comments on the ACHMP?

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Tuesday, 4 August 2020 8:07 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Bobs Farm

Hi Jake
In response to your test excavation draft report for Bobs Farm
Worimi Local Aboriginal Land Council agree with recommendations but Worimi LALC are concerned that the raps were unable to relocate the test pits to different areas

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council

P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Jake Brown

From: Jake Brown
Sent: Tuesday, 4 August 2020 10:29 AM
Subject: FW: Bobs Farm ACHMP

Categories: Filed

Dear RAPs,

Thank you for those you have responded so far. Responses about the ACHMP so far include:

- People not wishing to comment as not having been involved in fieldwork;
- No specific comments about the ACHMP when responding to the test excavation report.

The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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From: Jake Brown
Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

Dear RAPs,

As mentioned in my previous email on the 8 July 2020, I am writing to you regarding the ACHMP. I have received no comments so far from any of the registered parties. Regarding the test excavation report also sent on the 8 July 2020, I have also received no comments so far, the review period for the report ends on the 5 August 2020.

I will send an email to all RAPs regarding any comments I receive on the ACHMP for your consideration. I will email about the ACHMP again on the 4 August 2020. If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Tuesday, 4 August 2020 8:07 AM
To: Jake Brown
Subject: Bobs Farm

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Filed

Hi Jake
In response to your test excavation draft report for Bobs Farm
Worimi Local Aboriginal Land Council agree with recommendations but Worimi LALC are concerned that the raps were unable to relocate the test pits to different areas

Jamie Merrick
Snr Site Officer
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P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Jake Brown

From: Jake Brown
Sent: Monday, 27 July 2020 7:49 AM
To: Deidre Perkins
Subject: RE: Bobs Farm ACHMP

Categories: Filed

Thank you for letting me know Deidre,

Regards,

Jake

From: Deidre Perkins <dedemaree3@hotmail.com>
Sent: Friday, 24 July 2020 10:17 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm ACHMP

Hi jake, I cant comment because wasnt on the job
Thanks Deidre

Get Outlook for Android

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Thursday, July 23, 2020 8:00:53 AM
Subject: Bobs Farm ACHMP

Dear RAPs,

As mentioned in my previous email on the 8 July 2020, I am writing to you regarding the ACHMP. I have received no comments so far from any of the registered parties. Regarding the test excavation report also sent on the 8 July 2020, I have also received no comments so far, the review period for the report ends on the 5 August 2020.

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Monday, 27 July 2020 7:49 AM
To: Anthony Anderson
Subject: RE: Bobs Farm ACHMP

Categories: Filed

Hello Bec,

Your previous correspondence is included in the correspondence log, however I have not included any comments in the report at this stage. A summarised version will appear in the report body (section 3) with the full response in the Appendix I.

Regards,

Jake

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Friday, 24 July 2020 8:58 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm ACHMP

Hi Jake,
I was just wondering if you had included my previous correspondence in regards to the test excavation in this draft report?
Please let me know if you have so I can construct a response for the report.
Thanks Bec

On Thursday, July 23, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Dear RAPs,
>
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Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

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Sent: Friday, 24 July 2020 10:17 AM
To: Jake Brown
Subject: Re: Bobs Farm ACHMP

Categories: Filed

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Friday, 24 July 2020 8:58 AM
To: Jake Brown
Subject: Re: Bobs Farm ACHMP

Categories: Filed

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>
> Regards,
>
> Jake
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
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Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

Categories: Filed

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 8 July 2020 10:53 AM
To: Jake Brown
Subject: Bobs Farm Consultation and Review of Documents
Attachments: TL 16032 TL Bobs Farm Sand Mine ACHMP Rev 2.pdf; 16032 TL Bobs Farm Excavation Archaeological Report Rev2.pdf

Categories: Filed

Hello RAPs,

Thank you for your continued support with the Bobs Farm sand mine project. Following the test excavation in May a draft report is now available for review. A 28 day review period has been allocated which would end on the 5 August, 2020. A hard copy of the report will be sent out. I have also attached a copy of the report in this email. This contains all the appendices.

Regarding the ACHMP, please find this included in the link as well. If a initial comment could be provided within two weeks, I will then proceed on the 23 July to provide RAPs with a consultation email with any feedback for additional consideration over the following two weeks to the 5 August, 2020.

If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 8 July 2020 10:53 AM
To: Jake Brown
Subject: Bobs Farm Consultation and Review of Documents
Attachments: TL 16032 TL Bobs Farm Sand Mine ACHMP Rev 2.pdf; 16032 TL Bobs Farm Excavation Archaeological Report Rev2.pdf

Categories: Filed

Hello RAPs,

Thank you for your continued support with the Bobs Farm sand mine project. Following the test excavation in May a draft report is now available for review. A 28 day review period has been allocated which would end on the 5 August, 2020. A hard copy of the report will be sent out. I have also attached a copy of the report in this email. This contains all the appendices.

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Thursday, 28 May 2020 10:12 AM
To: Jake Brown
Subject: Re: Invoice details
Attachments: Tattersall Lander- 476.doc

Categories: Filed

Hi Jake,

Hope your well,
Please find attached Invoice for Test Excavations - Bobs Farm #476.
Please forward to proponent.

Thanks
Bec

On Wed, May 20, 2020 at 11:44 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello Bec,
>
> -
>
> The invoice will be paid by Tattersall Lander however you can send it to me and I will pass it along if you wish.
>
> -
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
>
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From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 20 May 2020 11:39 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Invoice details

Hi Jake,

Just wanted to confirm if I'm sending Murrooma's invoice to you or to the proponent?

Confirming this invoice info;

Tattersall Lander

Bob Lander, Director

Email: bob@tatland.com.au, Telephone: 02 4987 1500 2 Bourke Street Raymond Terrace 2324

PO Box 580 Raymond Terrace 2324

Thanks

Bec

--

Anthony Anderson

CEO Mur-roo-ma Incorporated

Justice of The Peace

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

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Tattersall Lander
Bob Lander, Director
Email: bob@tatland.com.au, Telephone: 02 4987 1500 2 Bourke Street Raymond Terrace 2324
PO Box 580 Raymond Terrace 2324

Thanks
Bec

--
Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 13 May 2020 2:48 PM
To: Jake Brown
Cc: Sites
Subject: Re: Bobs Farm Test Excavation

Categories: Filed

Hi Jake,
I just wanted to write to get a bit more clarification on the test pits we completed last week and the permit wording .
What I'm a bit worried about was that there was no room in the permit to move the pits once we went out onsite to look at the areas that were selected as I do not think this gave us a very good cover/overview of what is potentially onsite. I know you had said they were placed from the 2014 walk over survey but I would have thought that a pit would have been placed mainly in the areas that were on top of the ridge line (Identified in the 2020 walkover) instead of in the lower lying disturbed areas.
As your are aware there is a shell midden/scatter on the top of the ridge line which is consistent to where our people would have accessed however we did not do any testing of this area.
I understand we agreed with the methodology sent out via email which highlighted the areas to be tested however after being onsite and seeing this and all groups asking onsite why these were selected and if there was any space in the permit to try somewhere else - in areas we believe our people would have used not just shell scatter. I'm just a bit concerned that development would go ahead with no findings from the 5 test pits (across a lot of area) and it not really be a true reflection of what may potentially be in this area.

Moving forward should I just wait for the report and respond with a cultural assessment of the area? We haven't really worked under a permit that specifically states that we cannot move or test in areas that would gain more information- there's usually a bit of flexibility in this for the RAP groups.

Sorry to be a bother however just playing on my mind a bit.

Thanks
Bec

On Wed, Apr 15, 2020 at 9:21 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello All,
>
> -
>
> As you would have received the notice about the AHIP approval yesterday, I am contacting the three original groups from the 2014 survey to confirm involvement in the test excavation. My previous email did say the week of the 27 April, it has come to my attention that the 27 April is a public holiday. I am proposing to move the excavation to the week of the **4 May**. The AHIP has granted approval for 5 test excavation of the shell sites (all on AHIMS) found in 2014, I am proposing one per day. This will follow the methodology set out in the AHIP. At present I am thinking an 8:30 am start for the Monday.
>
> -
>
> I am happy to discuss the project further or answer any question you might have. At present I am in the office from Monday to Thursday normally between 7:30 am to 3:30 pm. If you want to organise a time to speak just let me know.

-

Regards,

-

Jake

-

Jake Brown Archaeologist

jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Sunday, 3 May 2020 5:21 PM
To: Jake Brown
Subject: Re: Bobs Farm 4 May
Attachments: Sites Officer Rates 2020.docx

Categories: Filed

Thanks Jake, I will be there in the morning.
Apologises as I did not attach rates of pay into previous email.
Please find enclosed Murrooma Sites Officer Rates.
Thanks
Bec

On Thu, Apr 30, 2020 at 2:38 PM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello,
>
> -
>
> Please find attached a map of the meeting location for Monday 4 May. I proposed to meet at 8:30am. Grant Brown and I will be attending from Advitech.
>
> -
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
>
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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Friday, 1 May 2020 6:18 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hi Jake
R we included in salvage, just need to organise if we r
Thanks

Ryan johnson

On 1 May 2020, at 10:39 am, Jake Brown <Jake.Brown@advitech.com.au> wrote:

Hello Registered Parties,

An administrative error from my original email was that the excavation was expected to occur on the 27 April. Due to what I thought was a public holiday and other work, I can now confirm that the excavation will start on Monday the 4 May 2020.

The ACHMP has also been delayed to include details from the excavation.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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<image001.jpg>

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From: Jake Brown
Sent: Tuesday, 14 April 2020 1:33 PM
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Sorry for any confusion with my previous email, the original parties that have been asked to provide field representatives for the test excavation are Worimi LALC, Nur-Run-Gee and Murroma. These parties have been involved in the project since 2014. I appreciate that this is a small group when 13 parties are involved. All parties will be asked to participate in the AHCMP and review of the excavation report.

If there are any further queries please let me know.

Regards,

Jake

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

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An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

<image001.jpg>

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Jake Brown

From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Friday, 1 May 2020 6:20 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hi Jake
R we included in the excavation
Thanks
Ryan johnson

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jake.brown@advitech.com.au

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Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

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<image001.jpg>

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Jake Brown

From: Jake Brown
Sent: Friday, 1 May 2020 12:46 PM
To: lilly carroll
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Lilly,

As per my previous email Worimi LALC, Nur-Run-Gee and Murroma have been engaged to undertake the fieldwork. I appreciate all input from the 13 registered parties. The review of the report and ACHMP are forthcoming.

Thank you for your continued involvement in the project.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Friday, 1 May 2020 12:07 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake

Where is the meeting place plz

Sent from Yahoo Mail for iPhone

On Friday, May 1, 2020, 10:39 am, Jake Brown <Jake.Brown@advitech.com.au> wrote:

Hello Registered Parties,

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Regards,

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Friday, 1 May 2020 10:40 AM
Subject: FW: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Registered Parties,

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Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Thank you for your continued involvement in the project. The AHIP for test excavation has been issued today (14 April). Please find attached a copy for your record. The test excavation will be proceeding according to the AHIP requirements and current government guidelines for Covid 19. For continuity the original parties involved in the project will be asked to provide field representatives for the excavation. All parties will be provided a copy of the excavation report. The nominated sites are from the 2014 report and intend to answer those queries that the department had in the 2019 advice letter.

An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 30 April 2020 2:36 PM
To: lennie.anderson011 lennie.anderson011
Subject: RE: New Cert

Categories: Filed

Thanks Lennie.

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 2:34 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: New Cert

FYI

Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 2:34 PM
To: Jake Brown
Subject: New Cert
Attachments: Workers Insurance Certificate of Currency.Icare.pdf

Categories: Filed

FYI

Jake Brown

From: Jake Brown
Sent: Thursday, 30 April 2020 2:24 PM
To: Anthony Anderson
Subject: RE: Bobs Farm excavation

Categories: Filed

Thanks Bec.

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Thursday, 30 April 2020 2:14 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm excavation

Hi Jake,
Please find attached copies of insurances.
I will be driving my own private vehicle to work however this is insured with AAMI.
Thanks
Bec

On Tue, Apr 28, 2020 at 1:53 PM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello all,
>
> -
>
> As with the previous fieldwork last year, is it possible to provide Advitech if updated insurance details for:
>
> - Works compensation insurance
> - Public liability insurance
> - Vehicle insurance for travel to and from site
>
> Is it possible to also provide current rates?
>
> Regards,
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> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
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> The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.

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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 2:15 PM
To: Jake Brown
Subject: Workers Comp Certif CURRENT

Categories: Filed

FYI

Lennie

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Thursday, 30 April 2020 2:14 PM
To: Jake Brown
Subject: Re: Bobs Farm excavation
Attachments: Liability CofC 2019-20.pdf; Workers Comp 2019-20.pdf

Categories: Filed

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-

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Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Thursday, 30 April 2020 1:46 PM
To: lennie.anderson011 lennie.anderson011
Subject: RE: RE: Info Req

Categories: Filed

Hello Lennie,

I have the one you supplied last year and your last email only covered liability.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 1:39 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: RE: Info Req

Hi Jake,

Icare took over from Workcover, I supplied current cert and receipt for the New Cert.

Thanking you

Lennie

------ Original Message ------

From: "Jake Brown" <Jake.Brown@advitech.com.au>
To: "lennie.anderson011 lennie.anderson011" <lennie.anderson011@bigpond.com>
Sent: Wednesday, 29 Apr, 2020 At 2:15 PM
Subject: RE: Info Req

Hello Lennie,

Thanks for send that, do you have workers compensation insurance?

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Info Req

Hi Jake,

Hope this is okay! we are not sure what vehicle yet, but obviously it would have to be Registered and Insured to be able to drive it to the job. Chris will be attending for us.

Thanks Mate

Lennie

Jake Brown

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Jake Brown

From: Jake Brown
Sent: Wednesday, 29 April 2020 2:16 PM
To: lennie.anderson011 lennie.anderson011
Subject: RE: Info Req

Categories: Filed

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 29 April 2020 2:14 PM
To: Jamie Merrick
Subject: RE: Bobs Farm excavation

Categories: Filed

Thanks Jamie

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 29 April 2020 1:22 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: FW: Bobs Farm excavation

Good Afternoon,

See attached copy of insurance certificates as requested.

Kind regards

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

The Worimi Local Aboriginal Land Council respects the privacy of individuals and strives to comply with all areas of the Privacy Act. The contents of this email are intended for the purpose of the person or persons named in either the "To" or "CC" boxes of the email. Any person not named in these boxes in receipt of this email should immediately delete this email and advise the sender accordingly.



From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 28 April 2020 1:53 PM
To: Sites <Sites@worimi.org.au>; lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>; Anthony Anderson <murroomainc1@gmail.com>
Subject: Bobs Farm excavation

Hello all,

As with the previous fieldwork last year, is it possible to provide Advitech if updated insurance details for:

- Works compensation insurance
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- Vehicle insurance for travel to and from site

Is it possible to also provide current rates?

Regards,

Jake

Jake Brown Archaeologist

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 29 April 2020 1:22 PM
To: Jake Brown
Subject: FW: Bobs Farm excavation
Attachments: 20200429131613584.pdf; 20200429131619019.pdf

Categories: Filed

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Jake Brown

From: Jake Brown
Sent: Thursday, 23 April 2020 1:09 PM
To: Worimi TOC
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Candy,

I understand your position in wanting to participate in the excavation and be activity involved in the protection of your culture. I am aware that Nur-Run-Gee and Murrooma are owned by different people from the same family, however as I stated earlier they both responded in 2014 and for continuity have been asked to participate, as well as being familiar with site. I am in no way trying to exclude any of the 13 registered parties and I welcome all information/continued discussion going forward.

Going forward the original parties have be invited to participate in the field work, whilst I would like to involve more people it is not feasible due to the site and testing regime. Also with the current Coronavirus pandemic we must minimise people on site and allow maximum social distancing.

Your input to the project is greatly valued.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: Worimi TOC <worimitoc@hotmail.com>
Sent: Monday, 20 April 2020 5:40 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake,

Nur-Run-Gee and Murroma are the exact same family group which is ok but you are going to get the exact same cultural knowledge from them. Could you contact the consultant and see if you can get me onsite for the excavations next week.

Cheers,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

ph: 0412 475 362

e: worimitoc@hotmail.com

WORIMI TOIC

Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Wednesday, 15 April 2020 9:00 AM
To: Worimi TOC <worimitoc@hotmail.com>
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Candy,

Thank you for your reply. I appreciate that as a Traditional owner of the area you would like to participate in the test excavations, I am only able to accommodate a few people on site at one time. As there are 13 groups involved, it is difficult to be able to offer all groups involved the opportunity for fieldwork. The review of the excavation report and the ACHMP are opportunities for all involved to voice their opinion about the project area and any potential impact on heritage.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake,

Thanks for your email.
Altho I was not registered in 2014 for the project as I am a Traditional owner of the area I would like to participate in the testing excavations for Bobs Farm Sand Mine that will commence on the 27th April 2020. It is culturally important for my people, the Worimi to be strongly involved in any matters that may impact our culture and heritage.

Kind regards,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

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e: worimitoc@hotmail.com

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Hello Registered Parties,

Sorry for any confusion with my previous email, the original parties that have been asked to provide field representatives for the test excavation are Worimi LALC, Nur-Run-Gee and Murroma. These parties have been involved in the project since 2014. I appreciate that this is a small group when 13 parties are involved. All parties will be asked to participate in the AHCMP and review of the excavation report.

If there are any further queries please let me know.

Regards,

Jake

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

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An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

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Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Filed

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Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Thank you for your continued involvement in the project. The AHIP for test excavation has been issued today (14 April). Please find attached a copy for your record. The test excavation will be proceeding according to the AHIP requirements and current government guidelines for Covid 19. For continuity the original parties involved in the project will be asked to provide field representatives for the excavation. All parties will be provided a copy of the excavation report. The nominated sites are from the 2014 report and intend to answer those queries that the department had in the 2019 advice letter.

An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400

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Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Wednesday, 15 April 2020 9:59 AM
To: Jake Brown
Subject: Re: Bobs Farm Test Excavation

Categories: Filed

Hi Jake,

Thanks for the update. Chris Collison (Snr Sites Officer) will be representing Nur-Run-Gee Pty Ltd, as he was involved in all the previous studies. Please keep us in the loop for meeting times etc.

Thanking you.

Lennie Anderson OAM ASM
(Director)

------ Original Message ------
From: "Jake Brown" <Jake.Brown@advitech.com.au>
To: "lennie.anderson011 lennie.anderson011" <lennie.anderson011@bigpond.com>; "Sites@worimi.org.au" <Sites@worimi.org.au>; "Anthony Anderson" <murroomainc1@gmail.com>
Sent: Wednesday, 15 Apr, 2020 At 9:21 AM
Subject: Bobs Farm Test Excavation

Hello All,

As you would have received the notice about the AHIP approval yesterday, I am contacting the three original groups from the 2014 survey to confirm involvement in the test excavation. My previous email did say the week of the 27 April, it has come to my attention that the 27 April is a public holiday. I am proposing to move the excavation to the week of the **4 May**. The AHIP has granted approval for 5 test excavation of the shell sites (all on AHIMS) found in 2014, I am proposing one per day. This will follow the methodology set out in the AHIP. At present I am thinking an 8:30 am start for the Monday.

I am happy to discuss the project further or answer any question you might have. At present I am in the office from Monday to Thursday normally between 7:30 am to 3:30 pm. If you want to organise a time to speak just let me know.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 15 April 2020 9:49 AM
To: Anthony Anderson
Subject: RE: Bobs Farm Test Excavation

Categories: Filed

Hello Bec,

Thank you for confirming.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 15 April 2020 9:34 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Test Excavation

Hi Jake,
Yes Murrooma will have a representative available from the 4th of May and 8;30 start is fine.
Thanks
Bec

On Wednesday, April 15, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello All,
>
> As you would have received the notice about the AHIP approval yesterday, I am contacting the three original groups from the 2014 survey to confirm involvement in the test excavation. My previous email did say the week of the 27 April, it has come to my attention that the 27 April is a public holiday. I am proposing to move the excavation to the week of the **4 May**. The AHIP has granted approval for 5 test excavation of the shell sites (all on AHIMS) found in 2014, I am proposing one per day. This will follow the methodology set out in the AHIP. At present I am thinking an 8:30 am start for the Monday.

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--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 15 April 2020 9:34 AM
To: Jake Brown
Subject: Re: Bobs Farm Test Excavation

Categories: Filed

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> Regards,
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> Jake
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> advitech environmental
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--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Wednesday, 15 April 2020 9:22 AM
To: lennie.anderson011 lennie.anderson011; Sites@worimi.org.au; Anthony Anderson
Subject: Bobs Farm Test Excavation

Categories: Filed

Hello All,

As you would have received the notice about the AHIP approval yesterday, I am contacting the three original groups from the 2014 survey to confirm involvement in the test excavation. My previous email did say the week of the 27 April, it has come to my attention that the 27 April is a public holiday. I am proposing to move the excavation to the week of the **4 May**. The AHIP has granted approval for 5 test excavation of the shell sites (all on AHIMS) found in 2014, I am proposing one per day. This will follow the methodology set out in the AHIP. At present I am thinking an 8:30 am start for the Monday.

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 15 April 2020 9:01 AM
To: Worimi TOC
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Candy,

Thank you for your reply. I appreciate that as a Traditional owner of the area you would like to participate in the test excavations, I am only able to accommodate a few people on site at one time. As there are 13 groups involved, it is difficult to be able to offer all groups involved the opportunity for fieldwork. The review of the excavation report and the ACHMP are opportunities for all involved to voice their opinion about the project area and any potential impact on heritage.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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From: Worimi TOC <worimitoc@hotmail.com>
Sent: Tuesday, 14 April 2020 11:53 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake,

Thanks for your email.
Altho I was not registered in 2014 for the project as I am a Traditional owner of the area I would like to participate in the testing excavations for Bobs Farm Sand Mine that will commence on the 27th April 2020. It is culturally important for my people, the Worimi to be strongly involved in any matters that may impact our culture and heritage.

Kind regards,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

ph: 0412 475 362

e: worimitoc@hotmail.com



Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 14 April 2020 1:33 PM
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Sorry for any confusion with my previous email, the original parties that have been asked to provide field representatives for the test excavation are Worimi LALC, Nur-Run-Gee and Murroma. These parties have been involved in the project since 2014. I appreciate that this is a small group when 13 parties are involved. All parties will be asked to participate in the AHCMP and review of the excavation report.

If there are any further queries please let me know.

Regards,

Jake

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
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An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

advitech environmental

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Categories: Filed

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Kind regards,
Candy

Candy Towers
Worimi Custodian
Worimi Traditional Owners Indigenous Corporation
ph: 0412 475 362
e: worimitoc@hotmail.com

WORIMI TOIC

Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

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Jake Brown

From: Jake Brown
Sent: Tuesday, 14 April 2020 1:35 PM
To: David Feeney
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Dave,

Thank you for your offer of assistance with the excavation. The three parties asked to participate are Worimi LALC, Nur-Run-Gee and Murrooma. I apologise if my earlier email was misleading.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

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If you have received this email in error, please delete it and notify us immediately.

From: David Feeney <indigenouskaruah@outlook.com>
Sent: Tuesday, 14 April 2020 1:21 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake;

Shell we met at 3631 Nelson Bay Rd, Bobs Farm
At 07:30am on the 27th April 2020.

Thank you

Dave Feeney
Snr Aboriginal Cultural Officer
Karuah Indigenous Corporation
0421114853

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

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Thank you

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice
Attachments: Bobs Farm Sand Mine AHIP C0005692 - Apr 2020.pdf

Categories: Filed

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Jake Brown

From: Tamara Towers <worimiacs@gmail.com>
Sent: Sunday, 12 April 2020 8:16 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine project

Categories: Filed

Thanks Jake,

Looking forward to hearing from you soon.

Regards
Tamara Towers

On Wed, 19 Feb 2020 at 10:50 AM, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Dear Registered Parties,
>
> Thank you for your contribution to the Bobs Farm Sand Mine project so far. The AHIP for the test excavation has been lodged. I will keep all parties updated with the progress of the AHIP process. Further consultation will be undertaken at a later date as part of the test excavation and ACHMP. If you have any questions please let me know.
>
> Regards,
>
> Jake
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> advitech environmental
> www.advitech.com.au
> 7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400
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Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Wednesday, 25 March 2020 2:40 PM
To: Jake Brown
Subject: Re: Bobs Farm going forward

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Filed

Hi Jake,

Thank you for the correspondence and the earliest you could let us know would be appreciated.

Lennie

------ Original Message ------
From: "Jake Brown" <Jake.Brown@advitech.com.au>
To: "Sites@worimi.org.au" <Sites@worimi.org.au>; "murroomainc1@gmail.com" <murroomainc1@gmail.com>; "lennie.anderson011 lennie.anderson011" <lennie.anderson011@bigpond.com>
Sent: Wednesday, 25 Mar, 2020 At 7:48 AM
Subject: Bobs Farm going forward

Hello Worimi LALC, Mur-Roo-Ma and Nur-Run-Gee,

Regarding the Bobs Farm test excavation I have been in contact with DPIE. As I believe the heritage division is changing departments an AHIP won't be issued until approximately mid April. This corresponds with the prerequisite assessment time at any rate. As your organisation has previous field involvement with the project (both in 2014 and 2019) Advitech would like to ask you to potentially provide one field person to assist with the test excavation. The test excavation is expected to take approximately five days at present. This early contact is to determine your organisations availability for late April and early May. This will depend upon the exact date of issue. I plan to provide two weeks' notice before commencement.

At present I plan for all three groups to provide a field representative daily for the five day period. This may ultimately be affected by government guidelines for health.

<u>Safety and general items</u>

Shoring equipment (portable for 900mm x 900mm and 1.2m depth) will be organised for the project. This was mentioned in a meeting last year with DPIE and the recommendation has been carried forward. Due to excavation issues with sand/potentially unstable ground any safety concerns should be mentioned directly to the Advitech representative either prior or as they come to people attention. All concerns will be noted.

Generally as all three organisations are familiar with the terrain and vegetation, the test locations are potentially difficult to access and equipment will need to be carried in from relevant vehicle access. People participating should have a general fitness as the field activities may be strenuous.

With availability, if field representative has another appointment (organisation or personal) which make it difficult to complete a full days participation, it would be appreciated if this was addressed internally prior to fieldwork. If issues are noted and cannot be resolved internally please notify me prior to commencement of the day and arrangements can be put in place (half day, no representative on that day, etc.

Given the current pandemic situation safety measures such as social distancing or other updated guidelines will be utilised for the fieldwork if the situation has not improved. This will be discussed further when a definite date can be set.

Any organisation that is not available at the time of the organisation can still participate in the ACHMP and will be provide a copy of the archaeological report.

Advitech is currently implementing a work from home policy, if you have any concerns and wish to discuss them please send me an email or we can arrange a time to speak over the phone.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 25 March 2020 2:19 PM
To: Jake Brown
Subject: Re: Bobs Farm going forward

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Filed

Hi Jake,
Thanks for this information
Murrooma will be fine to have a representative for test excavation-obviously following your guidelines.
Please keep in touch and I guess we just wait to see what happens

Thanks
Bec

On Wednesday, March 25, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello Worimi LALC, Mur-Roo-Ma and Nur-Run-Gee,
>
> Regarding the Bobs Farm test excavation I have been in contact with DPIE. As I believe the heritage division is changing departments an AHIP won't be issued until approximately mid April. This corresponds with the prerequisite assessment time at any rate. As your organisation has previous field involvement with the project (both in 2014 and 2019) Advitech would like to ask you to potentially provide one field person to assist with the test excavation. The test excavation is expected to take approximately five days at present. This early contact is to determine your organisations availability for late April and early May. This will depend upon the exact date of issue. I plan to provide two weeks' notice before commencement.
>
> At present I plan for all three groups to provide a field representative daily for the five day period. This may ultimately be affected by government guidelines for health.
>
> Safety and general items
>
> Shoring equipment (portable for 900mm x 900mm and 1.2m depth) will be organised for the project. This was mentioned in a meeting last year with DPIE and the recommendation has been carried forward. Due to excavation issues with sand/potentially unstable ground any safety concerns should be mentioned directly to the Advitech representative either prior or as they come to people attention. All concerns will be noted.
>
> Generally as all three organisations are familiar with the terrain and vegetation, the test locations are potentially difficult to access and equipment will need to be carried in from relevant vehicle access. People participating should have a general fitness as the field activities may be strenuous.

With availability, if field representative has another appointment (organisation or personal) which make it difficult to complete a full days participation, it would be appreciated if this was addressed internally prior to fieldwork. If issues are noted and cannot be resolved internally please notify me prior to commencement of the day and arrangements can be put in place (half day, no representative on that day, etc.

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 25 March 2020 8:46 AM
To: Jake Brown
Subject: Test Excavation

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Filed

Good Morning Jake
Worimi Local Aboriginal Land Council can have a representative available for the test excavation at Bobs Farm for the period mentioned

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

The Worimi Local Aboriginal Land Council respects the privacy of individuals and strives to comply with all areas of the Privacy Act. The contents of this email are intended for the purpose of the person or persons named in either the "To" or "CC" boxes of the email. Any person not named in these boxes in receipt of this email should immediately delete this email and advise the sender accordingly.

WORIMI Local Aboriginal Land Council

Think before you print.

Jake Brown

From: Jake Brown
Sent: Wednesday, 25 March 2020 7:48 AM
To: Sites@worimi.org.au; murroomainc1@gmail.com; lennie.anderson011 lennie.anderson011
Subject: Bobs Farm going forward

Categories: Filed

Hello Worimi LALC, Mur-Roo-Ma and Nur-Run-Gee,

Regarding the Bobs Farm test excavation I have been in contact with DPIE. As I believe the heritage division is changing departments an AHIP won't be issued until approximately mid April. This corresponds with the prerequisite assessment time at any rate. As your organisation has previous field involvement with the project (both in 2014 and 2019) Advitech would like to ask you to potentially provide one field person to assist with the test excavation. The test excavation is expected to take approximately five days at present. This early contact is to determine your organisations availability for late April and early May. This will depend upon the exact date of issue. I plan to provide two weeks' notice before commencement.

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Safety and general items
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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Appendix II

Test Excavation Recording Sheets

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

advitech environmental

North:

Site: Bold farm

Pit: 1 Date: 8/5/20

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 1 - 5cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description: organic matter, sand

Artefacts? ☐ Yes ☑ No

Inclusions: organic matter

Comments: N/A Excavated by: JB/GB

Spit: 2 - 15cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☑ Friable ☐ Firm ☑ Compact ☐ Cemented Context:

Soil Description: Grey, Sand, charcoal, semi compacted

Artefacts? ☐ Yes ☑ No

Inclusions: small charcoal inclusions

Comments: N/A Excavated by: CC

Spit: 3 - 25cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description: sand

Artefacts? ☐ Yes ☑ No

Inclusions: Roots, charcoal

Comments: fairly consistant, sparse charcoal Excavated by: JB

Spit: 4 - 35cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☑ Friable ☑ Firm ☐ Compact ☐ Cemented Context:

Soil Description: sand

Artefacts? ☐ Yes ☑ No

Inclusions: less charcoal. less inclusions

Comments: dense in North East corner. slight colour change to lighter. Excavated by: CC

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

advitech environmental

North: ↑

Site: Bokes farm

Pit: Pit 1

Date: 8/5/20

Sketch & Corner Depths | *Spit Basic Descriptions (For detailed interpretative information see context form)*



Spit: 5-45cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☑ Friable ☐ Firm ☑ Compact ☐ Cemented | Context:

Soil Description: sand., semi compacted

Artefacts?

Inclusions: Roots, small amount of charcoal | ☐ Yes ☑ No

Comments: once exposed, moisture dyed and changed colour. | Excavated by: CC



Spit: 6-55cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

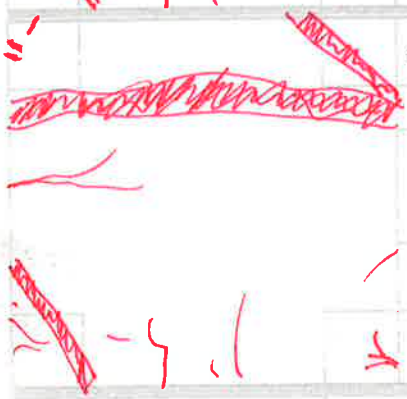
Consistency: ☐ Loose ☑ Friable ☑ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: sand

Artefacts?

Inclusions: Roots, small amount of charcoal | ☐ Yes ☑ No

Comments: strong ashy layer at top 10cm. slightly more compact. | Excavated by: CC



Spit: 7-65cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☐ Friable ☑ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: sand

Artefacts?

Inclusions: Roots, | ☐ Yes ☑ No

Comments: | Excavated by: CC

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description:

Artefacts?

Inclusions: | ☐ Yes ☐ No

Comments: | Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

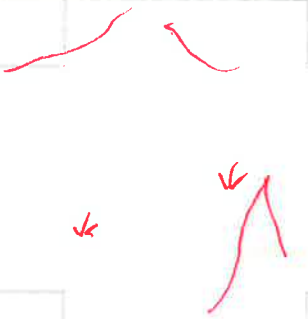
advitech environmental

North:

Site: BOLS Farm

Pit: 2 Date: 7/5/20

Sketch & Corner Depths | *Spit Basic Descriptions (For detailed interpretative information see context form)*



Spit: 1 - 5cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description: Sand / organic matter

Artefacts?

Inclusions: Organic matter, Roots ☐ Yes ☑ No

Comments: Excavated by: JB



Spit: 2 - 15cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

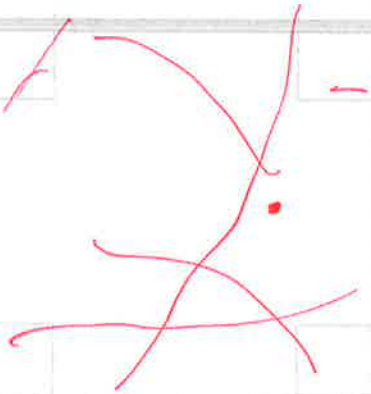
Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description: Sand, darker colour.

Artefacts?

Inclusions: shell, Roots, / Rock (Gravel) ☑ Yes ☐ No

Comments: 2x shell fragments Excavated by: GB



Spit: 3 - 25cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description: Sand mottled pattern in N to S corners.

Artefacts?

Inclusions: Shell (cockle), Roots ☑ Yes ☐ No

Comments: 1 cockle fragment 1 cockle half shell Excavated by:



Spit: 4 - 35cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☑ Friable ☑ Firm ☐ Compact ☐ Cemented Context:

Soil Description: Sand - mottle in colour.

Artefacts?

Inclusions: 1 small white rock chip. ☐ Yes ☐ No

Comments: Excavated by: CC

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

advitech environmental

North:

Site: Bolls Farm

Pit: Pit 2 Date: 7/5/20

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: Spit 45cm Excavation Method: ❑ Hand ❑ Machine Soil Sample? ❑ Yes ☑ No

Consistency: ☑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented Context:

Soil Description: Sand

Artefacts?

Inclusions: Roots ❑ Yes ☑ No

Comments: N/A Excavated by: GB/SB

Spit: 55cm Excavation Method: ☑ Hand ❑ Machine Soil Sample? ❑ Yes ☑ No

Consistency: ☑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented Context:

Soil Description: Sand.

Artefacts?

Inclusions: N/A ❑ Yes ☑ No

Comments: Roundwood N corner Excavated by: JB

Spit: Excavation Method: ❑ Hand ❑ Machine Soil Sample? ❑ Yes ❑ No

Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented Context:

Soil Description:

Artefacts?

Inclusions: ❑ Yes ❑ No

Comments: Excavated by:

Spit: Excavation Method: ❑ Hand ❑ Machine Soil Sample? ❑ Yes ❑ No

Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented Context:

Soil Description:

Artefacts?

Inclusions: ❑ Yes ❑ No

Comments: Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North:

Site: Bols Farm

Pit: Pit 3

Date: 6/5/20

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 1 - 5cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: Sand

Inclusions: organic matter

Comments: N/A

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: SB

Spit: 2 - 15cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☐ Loose ☑ Friable ☑ Firm ☐ Compact ☐ Cemented

Soil Description: Sand

Inclusions: Roots, charcoal

Comments:

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: GB/SB

Spit: 3 - 25cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: Sand, organic matter

Inclusions: organic matter, clump top right corner roots.

Comments: N/A

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: GB/SB

Spit: 4 - 35cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: Sand

Inclusions: Roots

Comments:

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: GB/SB

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

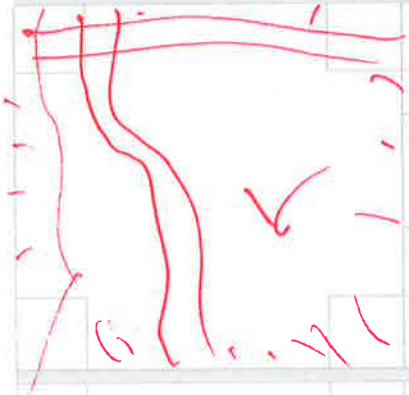
North: ↗

Site: Bolf Farm

Pit: 3

Date: 6/5/20

Sketch & Corner Depths



Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 5 – 45cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: Sand

Inclusions: Roots

Comments:

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: JB/GB

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description:

Inclusions:

Comments:

Context:

Artefacts? ☐ Yes ☐ No

Excavated by:

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description:

Inclusions:

Comments:

Context:

Artefacts? ☐ Yes ☐ No

Excavated by:

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description:

Inclusions:

Comments:

Context:

Artefacts? ☐ Yes ☐ No

Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North: ↗

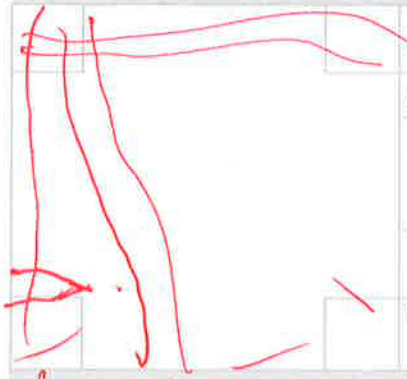
Site: Bolster

Pit: 3

Date: 7/5/20

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)



Spit: 55cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: Sand, slightly lighter yellow sand. Sterile.

Artefacts? ☐ Yes ☑ No

Inclusions: Roots.

Munsell: | Ph Level: | Excavated by: SB



Spit: 65cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: Sand

Artefacts? ☐ Yes ☑ No

Inclusions: Roots - Sterile.

Munsell: | Ph Level: | Excavated by: GB

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description:

Artefacts? ☐ Yes ☐ No

Inclusions:

Munsell: | Ph Level: | Excavated by:

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description:

Artefacts? ☐ Yes ☐ No

Inclusions:

Munsell: | Ph Level: | Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North:	Site:	
	Pit:	Date:

Sketch & Corner Depths — *Spit Basic Descriptions (For detailed interpretative information see context form)*

Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No	
Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented			Context:
Soil Description:			Artefacts? ❑ Yes ❑ No
Inclusions:			
Munsell:	Ph Level:		Excavated by:

Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No	
Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented			Context:
Soil Description:			Artefacts? ❑ Yes ❑ No
Inclusions:			
Munsell:	Ph Level:		Excavated by:

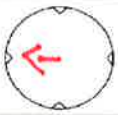
Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No	
Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented			Context:
Soil Description:			Artefacts? ❑ Yes ❑ No
Inclusions:			
Munsell:	Ph Level:		Excavated by:

Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No	
Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented			Context:
Soil Description:			Artefacts? ❑ Yes ❑ No
Inclusions:			
Munsell:	Ph Level:		Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

advitech environmental

North: 

Site ID: ~~SITE 4~~ Bolt Farm

Pit: 4 Date: 4/5/20

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 1 - 10cm **Excavation Method:** ☑ Hand ☐ Machine **Soil Sample?** ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented **Context:**

Soil Description: loose sand with Roots.

Inclusions: Roots - vertical / Horizontal **Artefacts?** ☐ Yes ☑ No

Comments: ~~some~~ small introduced Rock and porcelin **Excavated by:** JB

Spit: 2 - 15cm **Excavation Method:** ☑ Hand ☐ Machine **Soil Sample?** ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented **Context:**

Soil Description: Loose sand with Roots

Inclusions: Roots **Artefacts?** ☐ Yes ☑ No

Comments: charcoal - No stone **Excavated by:** ~~JB~~ CC

Spit: 3 - 25cm **Excavation Method:** ☑ Hand ☐ Machine **Soil Sample?** ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented **Context:**

Soil Description: loose sand with Roots

Inclusions: Roots **Artefacts?** ☐ Yes ☑ No

Comments: ~~N/A~~ Lots charcoal **Excavated by:** GB

Spit: 4 - 35cm **Excavation Method:** ☑ Hand ☐ Machine **Soil Sample?** ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented **Context:**

Soil Description: loose sand with Roots

Inclusions: Roots **Artefacts?** ☐ Yes ☐ No

Comments: Lots Roots **Excavated by:**

New page to be started every day

ARCHAEOLOGICAL SPIT RECORDING FORM

advitech environmental

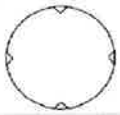
PROJECT NAME:

Site ID: Bolus Farm

Pit: 4

Date: 4/5/20

North:



Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 5 - 45cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: loose sand with roots

Artefacts? ☐ Yes ☑ No

Inclusions: Roots

Comments:

Excavated by: CC

Spit: 6 - 55cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: loose sand with roots in the wall.

Artefacts? ☐ Yes ☑ No

Inclusions: Roots in wall

Comments:

Excavated by: JB

Spit: 7 - 65cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: loose sand

Artefacts? ☐ Yes ☑ No

Inclusions: Roots + one sandstone

Comments: one piece of stone

Excavated by: CC

Spit: 8 - 75cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: loose sand

Artefacts? ☐ Yes ☑ No

Inclusions: No

Comments: sterile.

Excavated by: JB

New page to be started every day

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

advitech environmental

North: N

Site: Bovs

Pit: 4 Date: 4/5

Sketch & Corner Depths



Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 4 - 8 cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description: Sand

Artefacts?

Inclusions: N/A

☐ Yes ☑ No

Comments: Sterile Excavated by:

Spit: Excavation Method: ☐ Hand ☐ Machine Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description:

Artefacts?

Inclusions:

☐ Yes ☐ No

Comments: Excavated by:

Spit: Excavation Method: ☐ Hand ☐ Machine Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description:

Artefacts?

Inclusions:

☐ Yes ☐ No

Comments: Excavated by:

Spit: Excavation Method: ☐ Hand ☐ Machine Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented Context:

Soil Description:

Artefacts?

Inclusions:

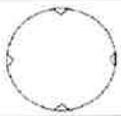
☐ Yes ☐ No

Comments: Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

PROJECT NAME:

advitech environmental

North: 	Site:		
	Pit:	Date:	
Sketch & Corner Depths	*Spit Basic Descriptions (For detailed interpretative information see context form)*		
	Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No
	Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented		Context:
	Soil Description:		Artefacts?
	Inclusions:		❑ Yes ❑ No
	Comments:		Excavated by:
	Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No
	Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented		Context:
	Soil Description:		Artefacts?
	Inclusions:		❑ Yes ❑ No
	Comments:		Excavated by:
	Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No
	Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented		Context:
	Soil Description:		Artefacts?
	Inclusions:		❑ Yes ❑ No
	Comments:		Excavated by:
	Spit:	Excavation Method: ❑ Hand ❑ Machine	Soil Sample? ❑ Yes ❑ No
	Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented		Context:
	Soil Description:		Artefacts?
	Inclusions:		❑ Yes ❑ No
	Comments:		Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North:

Site: [illegible]

Pit: #5

Date: 5/10 5/7/10

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 1 - 5cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description: loose sand.

Artefacts? ☐ Yes ☑ No

Inclusions: roots, mint roots

Comments: Main Path | Excavated by: GB

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description:

Artefacts? ☐ Yes ☐ No

Inclusions:

Comments: | Excavated by:

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description:

Artefacts? ☐ Yes ☐ No

Inclusions:

Comments: | Excavated by:

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented | Context:

Soil Description:

Artefacts? ☐ Yes ☐ No

Inclusions:

Comments: | Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North:	Site:	
	Pit:	Date:

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: | Excavation Method: ❑ Hand ❑ Machine | Soil Sample? ❑ Yes ❑ No

Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented | Context:

Soil Description:

Artefacts? ❑ Yes ❑ No

Inclusions:

Comments: | Excavated by:

Spit: | Excavation Method: ❑ Hand ❑ Machine | Soil Sample? ❑ Yes ❑ No

Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented | Context:

Soil Description:

Artefacts? ❑ Yes ❑ No

Inclusions:

Comments: | Excavated by:

Spit: | Excavation Method: ❑ Hand ❑ Machine | Soil Sample? ❑ Yes ❑ No

Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented | Context:

Soil Description:

Artefacts? ❑ Yes ❑ No

Inclusions:

Comments: | Excavated by:

Spit: | Excavation Method: ❑ Hand ❑ Machine | Soil Sample? ❑ Yes ❑ No

Consistency: ❑ Loose ❑ Friable ❑ Firm ❑ Compact ❑ Cemented | Context:

Soil Description:

Artefacts? ❑ Yes ❑ No

Inclusions:

Comments: | Excavated by:

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North: 

Site: Bolt farm

Pit: 5

Date: 6/5/10

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 2-10cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: Loose sand, with damp sand

Inclusions: Roots, organic debris

Comments: N/A

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: GB

Spit: 3-20 cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☑ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: Damp Sand. slight colour change to lighter. GB

Inclusions: Roots, charcoal (tiny)

Comments: Rapid mentioned charcoal barely worth mentioning.

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: SB

Spit: 4-30 cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: sand, less roots. Drier

Inclusions: slight charcoal fragments.

Comments: change of strating visibly water content from sterile.

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: GB

Spit: 5-40cm Excavation Method: ☑ Hand ☐ Machine Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Soil Description: sand, Drier

Inclusions: charcoal, greater Number Roots, not to many

Comments:

Context:

Artefacts? ☐ Yes ☑ No

Excavated by: GB

ARCHAEOLOGICAL SPIT RECORDING FORM

SECTION 4 HUNTER EXPRESSWAY

advitech environmental

North: 

Site: Bdf Farm

Pit: 5

Date: 6/5/20

Sketch & Corner Depths

Spit Basic Descriptions (For detailed interpretative information see context form)

Spit: 6 - 50cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Context: Hill charcoal between 40 - 45cm

Soil Description: Sand - Drier. slight charcoal.

Artefacts?

Inclusions: Charcoal. Right SE corner Roots. denser. still sparse - fine (Natural) ☐ Yes ☑ No

Comments: Charcoal scan. Excavated by: JB

Sand discoloration due to tree roots.

Spit: 7 - 60cm | Excavation Method: ☑ Hand ☐ Machine | Soil Sample? ☐ Yes ☑ No

Consistency: ☑ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Context:

Soil Description: sand - Drier.

Artefacts?

Inclusions: less charcoal. ☐ Yes ☑ No

Comments: Excavated by:

Sterile.

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Context:

Soil Description:

Artefacts?

Inclusions: ☐ Yes ☐ No

Comments: Excavated by:

Spit: | Excavation Method: ☐ Hand ☐ Machine | Soil Sample? ☐ Yes ☐ No

Consistency: ☐ Loose ☐ Friable ☐ Firm ☐ Compact ☐ Cemented

Context:

Soil Description:

Artefacts?

Inclusions: ☐ Yes ☐ No

Comments: Excavated by:

PHOTOGRAPH RECORDING SHEET

advitech environmental

Project Name: Sand mine	Job No:	Folder No:
Site Name: Pit 1 Bold Farm		Date: 8/5/20
Camera: Orange	Weather Conditions: Sunny	

Image #	Theme/Details	Bearing /Facing	Date	Initials
	Ground cover	N	8/5/20	JB
	Spit 5cm	N	8/5/20	JB
	Spit 5cm	N	8/5/20	JB
	Spit sign 5cm		8/5/20	JB
	Location of AHIP site	E	8/5/20	JB
	surrounds	E	8/5/20	JB
	fallen tree at site.	E	8/5/20	JB
	Spit 15 cm 1	N	8/5/20	JB
	Spit 15cm 2	N	8/5/20	JB
	Sign 15cm		8/5/20	JB
	Spit 25cm 1	N	8/5/20	JB
	Spit 25 cm 2	N	8/5/20	JB
	Spit 25cm 3	N	8/5/20	JB
	Spit 25 cm sign		8/5/20	JB
	Spit 35 cm 1	N	8/5/20	JB
	spit 35 cm 2	N	8/5/20	JB
	Spit 35 cm 3	N	8/5/20	JB
	Spit 35 cm sign		8/5/20	JB
	Spit 45 cm 1 (No tape)	N	8/5/20	JB
	Spit 45cm 2 (tape)	N	8/5/20	JB
	Spit 45 cm sign		8/5/20	JB
	Spit 55cm 1		8/5/20	JB
	Spit 55cm 2		8/5/20	JB
	Spit 55cm 3		8/5/20	JB
	Spit sign 55cm		8/5/20	JB

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PHOTOGRAPH RECORDING SHEET

advitech environmental

Project ID:	Job No:	Folder No:
Site ID/Transect ID: Pit 2		Date: 7/8/20
Camera: Orange	Weather Conditions: Sunny / cloudy	

Image ID	Theme/Details	Bearing /Facing	Initials
	Pit 2 Ground cover	SW	JB
	Sign pit 2	SW	JB
	Pit 2 Spit 5cm 1	SW	JB
	Pit 2 Spit 5cm 2	SW	JB
	Spit 5cm Sign.	~~SW~~	JB
	2x Shell fragment Spit 15cm		JB
	2x shell fragment spit 15cm		JB
	Photo of Bagged and tagged shell.		JB
	Spit 2 15cm 1	SW	JB
	2x Shell ~~Cockle~~ Cockle Spit 25cm		JB
	2x Shell ~~Cockle~~ Cockle fragment Spit 25cm		JB
	Photo of Bagged and tagged shell		JB
	Spit 25cm 1	SW	JB
	Spit ~~Sign~~ 25cm 2	SW	JB
	Spit Sign 25cm	SW	JB
	Spit 25cm x2	SW	JB
	~~Sign~~ Spit 25cm x 4	SW	JB

MUST START NEW SHEET EVERY DAY

Spit SW

PHOTOGRAPH RECORDING SHEET

Project ID: Bolls Farm		**Job No:**	**Folder No:**
Site ID/Transect ID: Pit 7			**Date:** 6/5/20
Camera: Orange	**Weather Conditions:** Sunny		

Image ID	Theme/Details	Bearing /Facing	Initials
	Ground	NW	JB
	Ground Sign	NW	JB
	Spit 5cm	NW	JB
	Spit 5cm Sign	NW	JB
	15cm Spit red tape	NW	JB
	15cm Spit black tape	NW	JB
	Spit Sign 15cm	NW	JB
	25cm Spit 1	NW	JB
	25cm Spit 2	NW	JB
	Spit Sign 25cm	NW	JB
	35cm Spit 1	NW	JB
	35cm Spit 2	NW	JB
	35cm Spit 3	NW	JB
	35cm Spit Sign	NW	JB
	45cm Spit 1	NW	JB
	45cm Spit scale	NW	JB
	45cm Spit Sign.	NW	JB

MUST START NEW SHEET EVERY DAY

PHOTOGRAPH RECORDING SHEET

advitech environmental

Project ID: Bobs Farm	Job No:	Folder No:
Site ID/Transect ID: Pit 4		Date: 9/11/20
Camera: Orange camera	Weather Conditions: Sunny	

Image ID	Theme/Details	Bearing /Facing	Initials
10	Top soil No pegs	E	JB
11	Top soil pegs	E	JB
12	top soil with sign	E	JB
100-0313	sign	E	JB
100-0314	PH 4		
100-0315	EXCAVATION 4		GB
16/17	SITE 4 5cm SPIT	E	GB
18	SITE 4 - FINDS (inclusions)		GB
19	site 4 15cm spit	E	JB
20	Site 4 15cm spit sign	E	JB
21	Site 4 25cm spit	E	GB
22	Site 4 25 spit sign	E	GB
23	site 4 35 cm spit	E	GB
24	site 4 35cm spit sign	E	GB
25	45cm spit	E	GB
26	45cm spit sign	E	GB
27	55 cm spit.		

MUST START NEW SHEET EVERY DAY

PHOTOGRAPH RECORDING SHEET

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Project ID: BdS Farm	**Job No:**	**Folder No:**
Site ID/Transect ID: Site 5		**Date:** 5/5/20
Camera: Olympus	**Weather Conditions:** wet / cl[illegible] / sunny	

Image ID	Theme/Details	Bearing /Facing	Initials
100-0336	PH test	—	JB
100-0337	munsell test	—	JB
38	Ground Pit 5	N	JB
39	Grand Pit 5. Sign	N	JB

MUST START NEW SHEET EVERY DAY

Project Name: Bold Farm

Site Name: Pit 2

advitech environmental

Date of Activity	Activity	Pit	Spit	Artefact Count	Comment
7/5/20	Sieve	2	15cm	2	cockle shell. shell fragments with damaged spiral
7/5/20	1x Sieve 1x pit	2	25cm	2	2 x cockle shell 1 broken, 1 half whole

*New page to be started every recording day

Job Safety Assessment (JSA)

Job No: 190088 Folder No: 16032 Assessment Date: 30/04/2020

Customer: Bob Lander - Tattersall Lander Job Location: Bobs Farm Job Start Date: 04/05/2020

Job Description: Test excavation

Signed By (Industry Competent Person*):

Incorporated "toolbox talk" with person who is *not industry competent*? ☐ Yes

Signed by Attendees: Jake Brown

NB: This form should be printed and stored in the Job Folder.

HAZARD IDENTIFICATION CHECKLIST (Please tick potential hazards which may be present):

- ☐ Entanglement
- ☑ Crushing
- ☐ Cutting
- ☐ Shearing
- ☐ Friction
- ☐ Striking
- ☑ Pinch Points
- ☑ Mobile Equipment
- ☐ Fluid/Gas under Pressure
- ☐ Ejected Materials
- ☐ Unguarded Machinery
- ☐ Access-Normal/Emergency
- ☑ Poor Visibility/Lighting/Dust
- ☑ Slips/Trips/Falls
- ☐ Working at Heights/Dropped Objects
- ☐ Lifting Equipment
- ☐ Equipment suspended or likely to move
- ☑ Manual Handling/ Ergonomic
- ☐ Noise or Vibration
- ☐ Electric Shock/Burns
- ☐ Incorrect Isolation
- ☐ Stored Energy
- ☐ Fire/Explosion
- ☑ High or Low Temperature
- ☐ Chemical/Biological/Radiation
- ☑ Extreme Environment/ Poor Weather
- ☐ Engulfment
- ☐ Poor Atmosphere/Gases/Suffocation
- ☐ Physical Stress/Systems of Work
- ☑ Parked in an Unsafe Condition
- ☐ Poor Housekeeping
- ☐ Other (specify):

SNAKES.

Detailed Risk Assessment Required: ☐ Yes ☐ No

***Note**: If one or more hazards are identified in this checklist, you must continue with detailed Risk Assessment on following page.*

* Note: An 'industry competent person' is defined as an experienced client representative or an Advitech staff member deemed to have sufficient awareness and experience of a particular site as determined by their supervisor.

Job Safety Assessment (JSA)

advitech

RISK ASSESSMENT (Please assess risks associated with each hazard identified on checklist on previous page):

Task or Step	Hazard [1]	Possible Causes	Possible Consequences	Recommended Controls
Travel	Road hazards, traffic, vehicle issues.	Accident, vehicle failure	Delay, injury, death	Drive to conditions, manage driver fatigue, vehicle checks.
Parking Vehicle (side of road)	Collision with other road users.	Parking close to road, blindspots	Serious accident.	Park vehicle away from road edge with clear line of sight
Field assessment	Prickly plants, sharp thorns and bushes, ~~dense~~ social distancing	Sharp thorns, prickly bushes, dense bushland, covid19	cuts, scratch. injury, death.	PPE, long sleeve shirt, safety glasses, adequate footwear. social distancing
Environment	Extreme weather, uneven surface, animals, covid 19	Exposure to elements, animals, pandemic.	Delay, injury, death	Caution and awareness at all times, first aid kit, PPE, water, social distancing.
Excavation	Accident Human error equipment failure covid 19	Accident human error equipment , disease	delay, injury, death	PPE, caution, awareness of environment, breaks, voice concern social distancing
Shoring	Accident equipment issue Human error	accident/environment equipment issue Human fault	delay, injury or death	PPE, caution, awareness of environment, breaks, voice concern

[1] Hazard: Source of potential harm or situation with potential to cause a loss

ISOLATION REQUIRED:

- ☐ Water
- ☐ Hydraulics
- ☐ Compressed Gases
- ☐ Pneumatics
- ☐ Electrical
- ☐ Other

Comments: _____

COMPLETED AND AUTHORISED BY:

I authorise the work described is safe to proceed providing the precautions listed are observed, and confirm that attendees have been briefed on the potential hazards and necessary precautions involved in this job.

Signature of Industry Competent Person

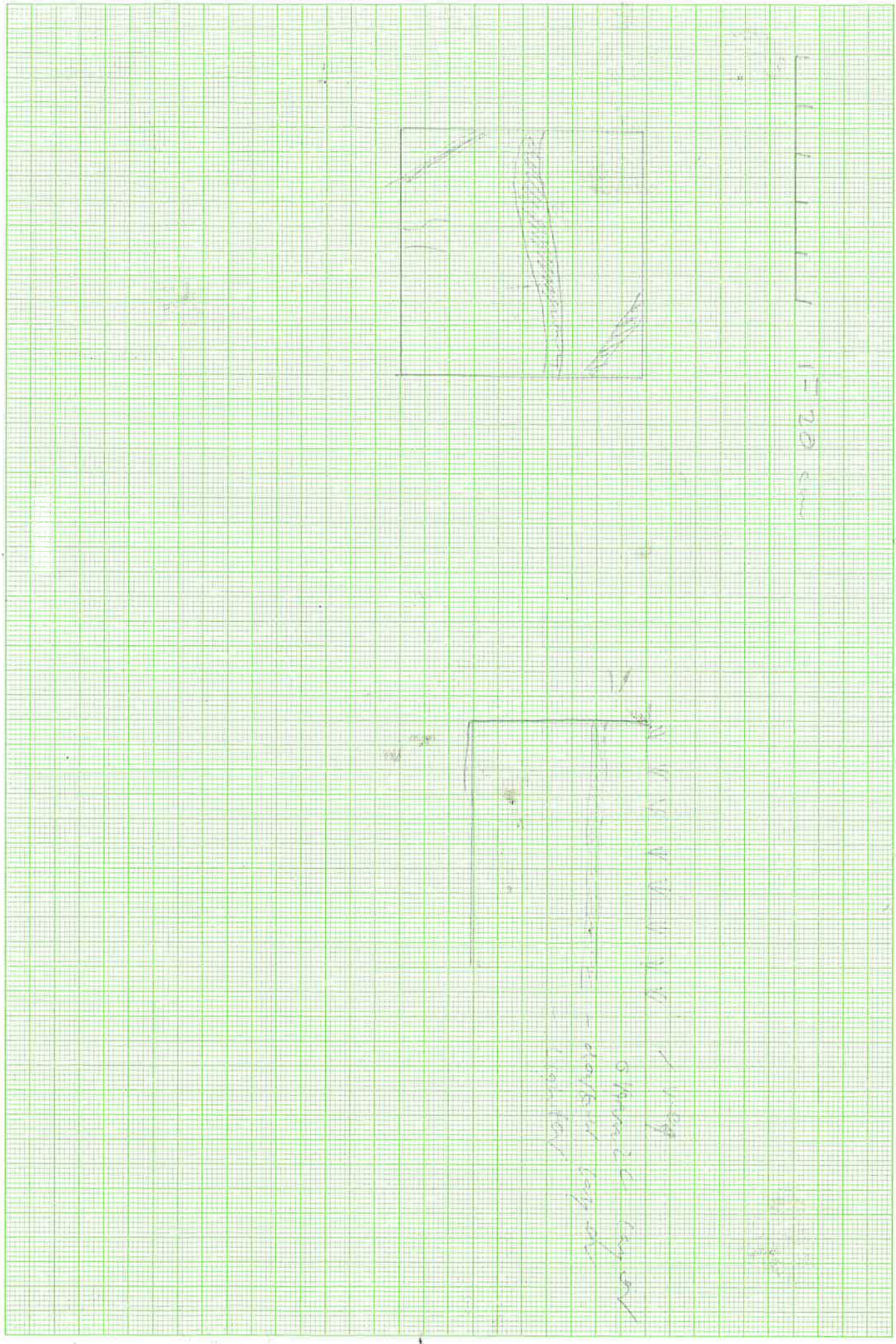
Date: 30/04/2020

RECIPIENT(S):

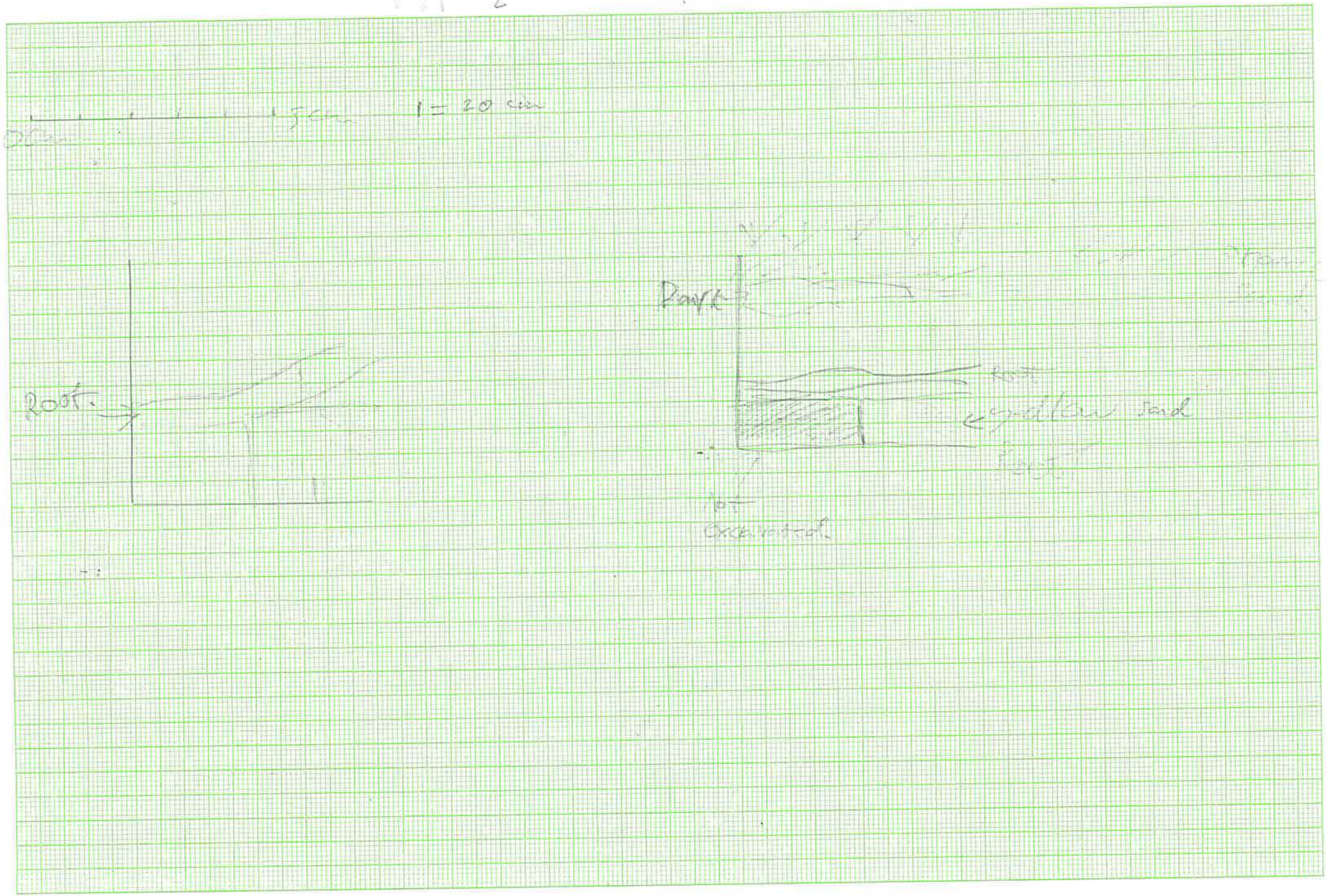
I have taken part in this JSA and understand the precautions necessary to undertake the work safely. I understand it is my responsibility to make all present and future staff involved in this job aware of the risks involved and the precautions necessary for the conduct of this work.

Signature of Recipient(s)

Date: 30/04/2020

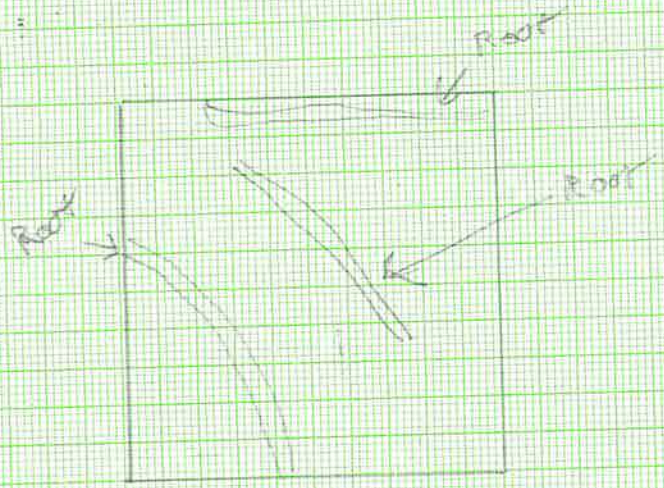


Pit 2



DIT 3.

0 ——— 5 cm 1 cm = 20 cm

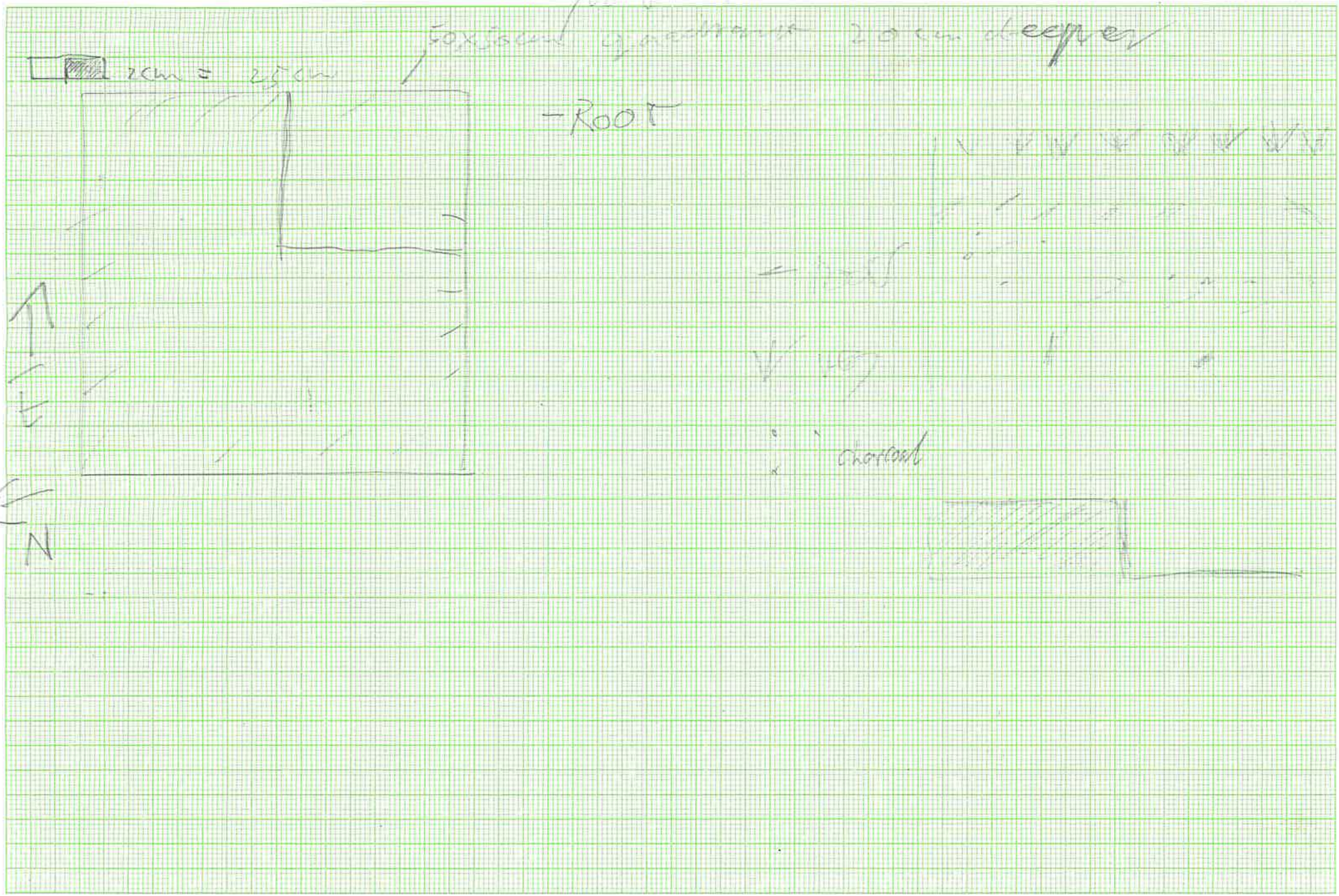




→ ROOF

! Compound

※ Stairs

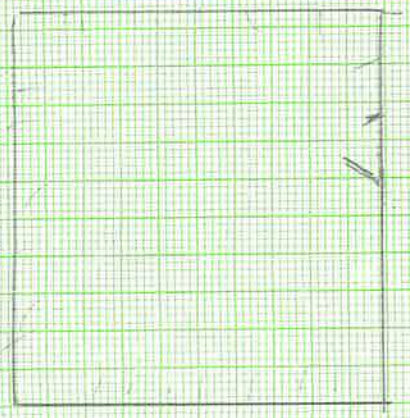

1cm = 2.5cm
- Root
Shortcut

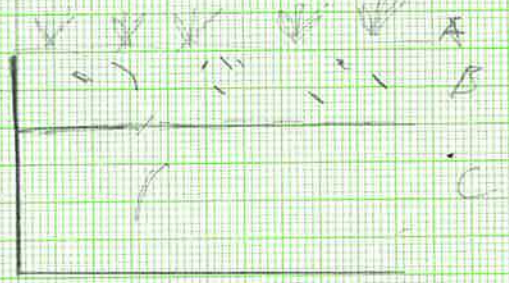
pit 5





vegetation
charcoal
root

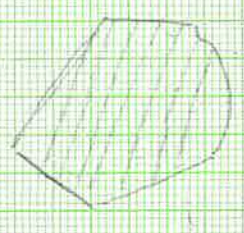




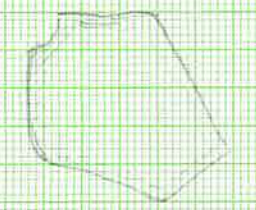
Tefo PIT 2 – Artefacts

0 1 2 3 4cm

SPIT 2



convex

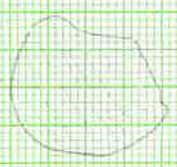


Concave





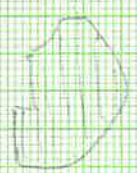
SPIT 3



Convex



Concave



Convex



Concave

Appendix III

Test Excavation Photographs

Test Pit 1 (Left to Right Spit 1 to Spit 7)



Test Pit 2 (Left to Right Spit 1 to Spit 7)



Test Pit 3 (Left to Right Spit 1 to Spit 7)



Test Pit 4 (Left to Right Spit 1 to Spit 9)



Test Pit 5 (Left to Right Spit 1 to Spit 7)



Tree One





Tree Three



Tree Four



Tree Five



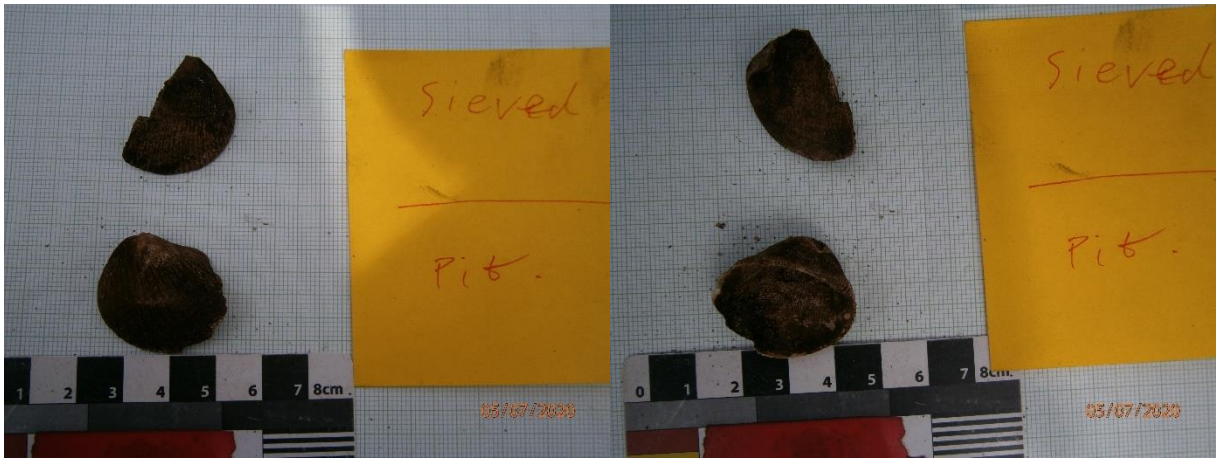




Test Pit 2 Artefacts Spit 2



Test Pit 2 Artefacts Spit 3



Test Pit 2 Artefacts Reburial











Appendix IV

Aboriginal Site Impact Recording Form (ASIRF)

Aboriginal Site Impact Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW
April 2012 OEH 2012/0558

1 This form must be completed following impacts to AHIMS sites that are:
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   c) undertaken for the purpose of complying with Director General's Requirements issued by the Department of Planning and Infrastructure (DP&I) for:
      - State Significant Development (SSD - Part 4),
      - State Significant Infrastructure (SSI - Part 5.1), or
      - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
   d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
2 Completed forms must be submitted to the AHIMS Registrar (www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm).
3 This form is intended to complement (not replace) the AHIMS Site Recording Form. Where there is a need to provide detailed information about the nature of a site, use the AHIMS Site Recording Form.
4 This form does not replace the need to submit reports to OEH (as a condition of an AHIP or SSD/SSI/Part 3A consent/approval) This form must be submitted in addition to any reports.

AHIMS site ID: 38-4-2016

Site impact authorisation (select one)

Reference numbers, dates

☐ **Archaeological Code** (The impacts to this site were the result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW.*)

Date OEH was notified (under requirement 15c of the Code):

OEH Regional office notified:

☒ **AHIP** (The impacts to this site were authorised by an AHIP.)

AHIP number: C0005692

Date issued/signed: 14 April 2020

AHIMS permit ID/number: 4598

☐ **SSD/SSI/Part 3A application** (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I

Project number:

Date Director General's Requirements issued:

or

☐ **SSD/SSI/Part 3A approved project** (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)

Date of project approval:

Site status following impacts:

☐ **Not a site** (The investigations concluded that this is not a site.)

☐ **Valid site** (The investigations confirmed that this is an Aboriginal site.)

☒ **Partially destroyed** (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)

☐ **Destroyed** (The site was completely destroyed following authorised impacts.)

Geographic location

Site name: BF-SC1-14

Easting: 406361 **Northing:** 6373319 **Coordinates must be in GDA (MGA)**

Map sheet:

Zone: 56 **Location method:** Hand Held/Non Differential GPS

Primary recorder

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr	Brown	Jake

Organisation: Advitech Pty Ltd

Address: 7 Riverside Drive Mayfield West NSW 2304

Phone: 49245400 **E-mail:** jake.brown@advitech.com.au

Date recorded: 02/06/2020 **Fax:**

Site information

Open/closed site: Open

Features:

☐	1.	Aboriginal ceremony and dreaming	☐	11.	Habitation structure
☐	2.	Aboriginal resource and gathering	☐	12.	Hearth
☐	3.	Art	☐	13.	Non-human bone and organic material
☐	4.	Artefact	☐	14.	Ochre quarry
☐	5.	Burial	☐	15.	Potential archaeological deposit
☐	6.	Ceremonial ring	☐	16.	Stone quarry
☐	7.	Conflict	☒	17.	Shell
☐	8.	Earth mound	☐	18.	Stone arrangement
☐	9.	Fish trap	☐	19.	Modified tree
☐	10.	Grinding groove	☐	20.	Water hole

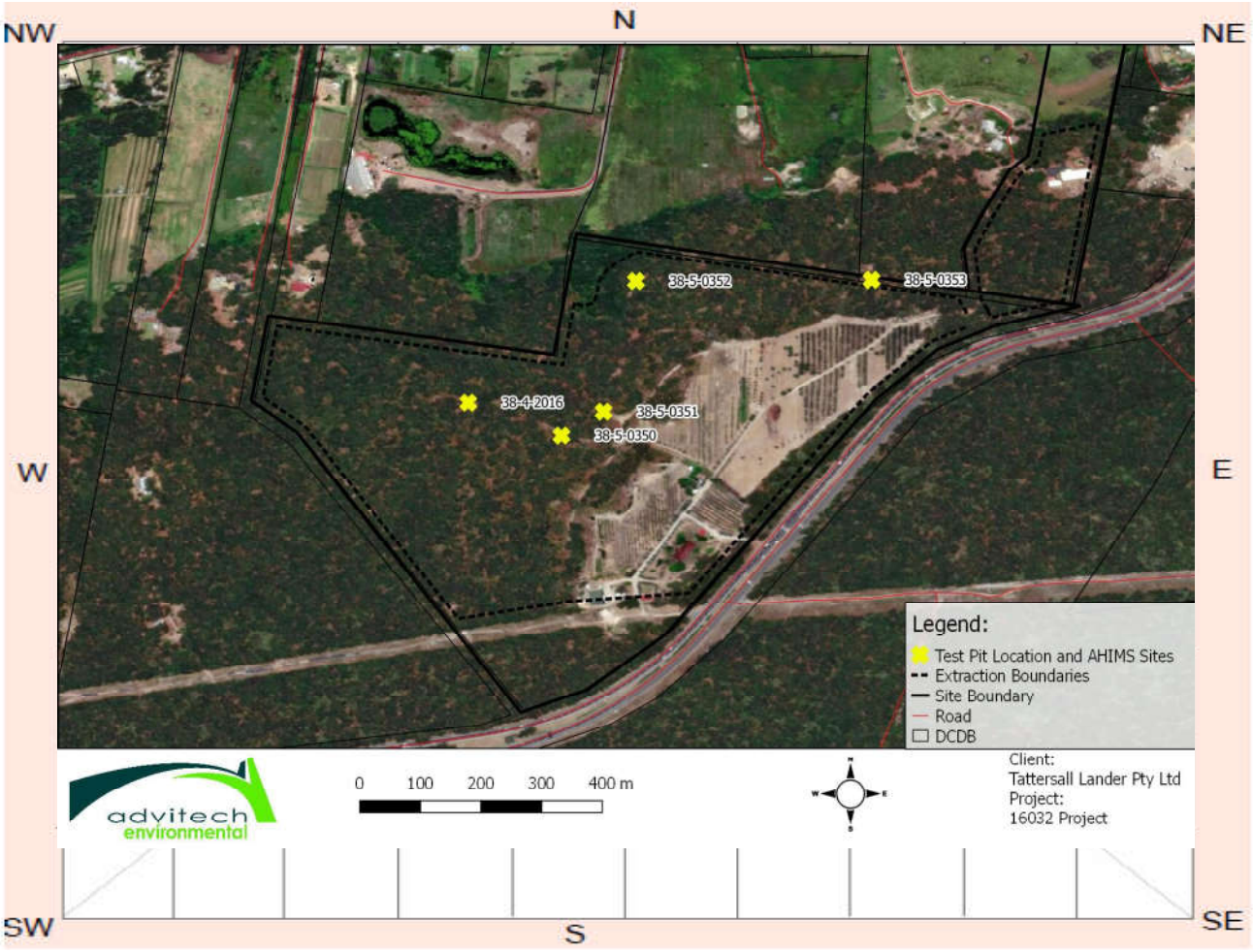
Site condition

Written description of the condition of the AHIMS site (including relevant features) following the authorised impact of the site

The site is disturbed due to being located on a track.

Site map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

It was excavated on Wednesday 6 and Thursday 7 May, 2020. It reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spit two to six. This is consistent with the soil profile.

Management recommendations

Summary of any management recommendations for the AHIMS site

Management will be devised through an ACHMP.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

The site has low scientific and research potential. Cultural significance is indeterminate.

Additional comments

Site photographs

Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



Description: Bottom of test pit

Description:

Description:

Description:

Description:

Description:

Aboriginal Site Impact Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW
April 2012 OEH 2012/0558

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      - State Significant Development (SSD - Part 4),
      - State Significant Infrastructure (SSI - Part 5.1), or
      - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
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AHIMS site ID: 38-5-0350

Site impact authorisation (select one)

Reference numbers, dates

☐ **Archaeological Code** (The impacts to this site were the result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW.*)

Date OEH was notified (under requirement 15c of the Code):

OEH Regional office notified:

☒ **AHIP** (The impacts to this site were authorised by an AHIP.)

AHIP number: C0005692

Date issued/signed: 14 April 2020

AHIMS permit ID/number: 4598

☐ **SSD/SSI/Part 3A application** (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I

Project number:

Date Director General's Requirements issued:

or

☐ **SSD/SSI/Part 3A approved project** (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)

Date of project approval:

Site status following impacts:

☐ **Not a site** (The investigations concluded that this is not a site.)

☐ **Valid site** (The investigations confirmed that this is an Aboriginal site.)

☒ **Partially destroyed** (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)

☐ **Destroyed** (The site was completely destroyed following authorised impacts.)

Geographic location

Site name: BF-SC2-14

Easting: 406491 **Northing:** 6373266 **Coordinates must be in GDA (MGA)**

Map sheet:

Zone: 56 **Location method:** Hand Held/Non Differential GPS

Primary recorder

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr	Brown	Jake

Organisation: Advitech Pty Ltd

Address: 7 Riverside Drive Mayfield West NSW 2304

Phone: 49245400 **E-mail:** jake.brown@advitech.com.au

Date recorded: 02/06/2020 **Fax:**

Site information

Open/closed site: Open

Features:

☐	1.	Aboriginal ceremony and dreaming	☐	11.	Habitation structure
☐	2.	Aboriginal resource and gathering	☐	12.	Hearth
☐	3.	Art	☐	13.	Non-human bone and organic material
☐	4.	Artefact	☐	14.	Ochre quarry
☐	5.	Burial	☐	15.	Potential archaeological deposit
☐	6.	Ceremonial ring	☐	16.	Stone quarry
☐	7.	Conflict	☒	17.	Shell
☐	8.	Earth mound	☐	18.	Stone arrangement
☐	9.	Fish trap	☐	19.	Modified tree
☐	10.	Grinding groove	☐	20.	Water hole

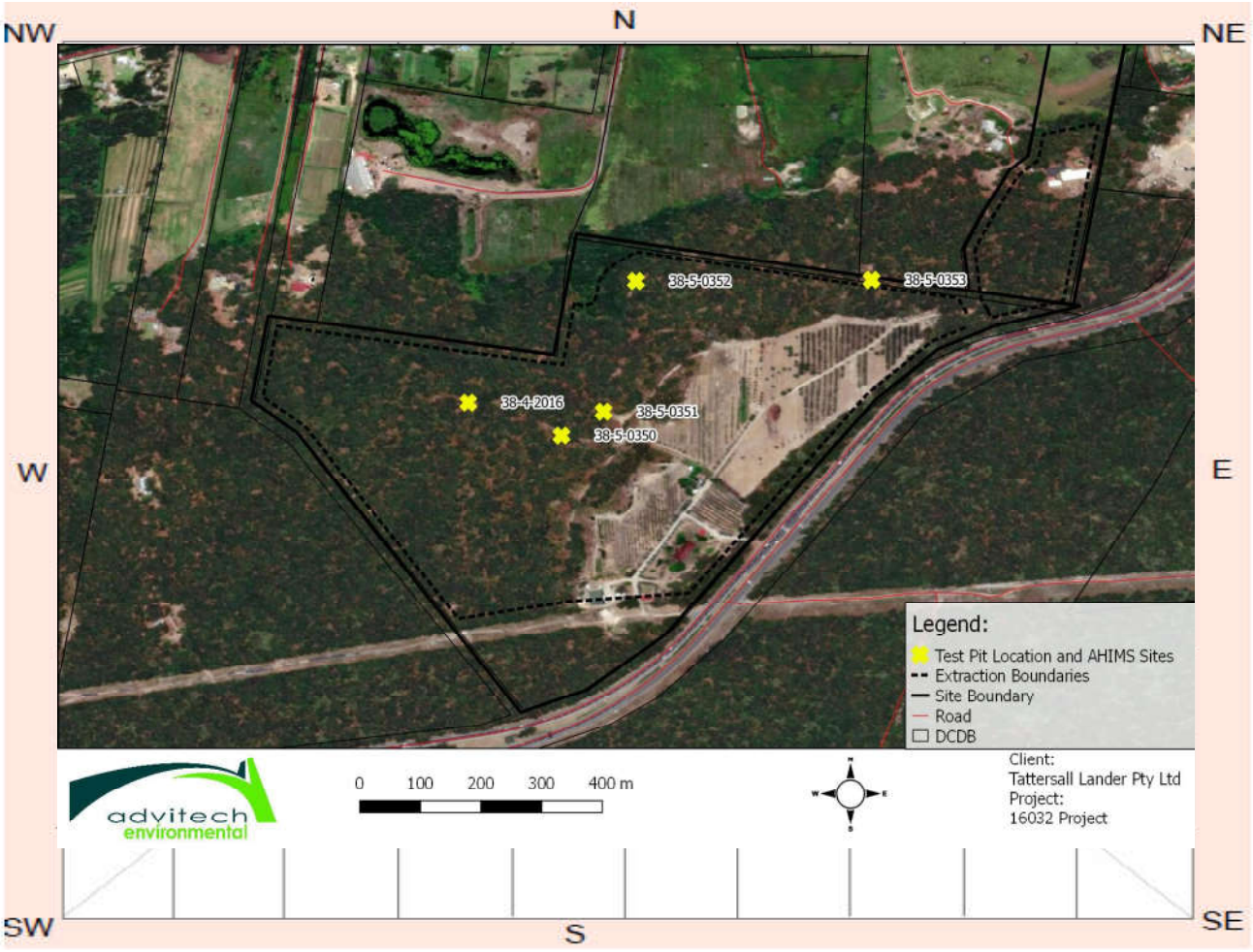
Site condition

Written description of the condition of the AHIMS site (including relevant features) following the authorised impact of the site

The site is disturbed due to being located on a track.

Site map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

This site was labelled as test pit 4 and reached a depth of 85 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spits two and three. This is consistent with the soil profile.

Management recommendations

Summary of any management recommendations for the AHIMS site

Management will be devised through an ACHMP.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

The site has low scientific and research potential. Cultural significance is indeterminate.

Additional comments

Site photographs

Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



Description: Bottom of test pit

Description:

Description:

Description:

Description:

Description:

Aboriginal Site Impact Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW
April 2012 OEH 2012/0558

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   c) undertaken for the purpose of complying with Director General's Requirements issued by the Department of Planning and Infrastructure (DP&I) for:
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      - State Significant Infrastructure (SSI - Part 5.1), or
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AHIMS site ID: 38-5-0351

Site impact authorisation (select one)

Reference numbers, dates

☐ **Archaeological Code** (The impacts to this site were the result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW.*)

Date OEH was notified (under requirement 15c of the Code):

OEH Regional office notified:

☒ **AHIP** (The impacts to this site were authorised by an AHIP.)

AHIP number: C0005692

Date issued/signed: 14 April 2020

AHIMS permit ID/number: 4598

☐ **SSD/SSI/Part 3A application** (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I

Project number:

Date Director General's Requirements issued:

or

☐ **SSD/SSI/Part 3A approved project** (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)

Date of project approval:

Site status following impacts:

☐ **Not a site** (The investigations concluded that this is not a site.)

☐ **Valid site** (The investigations confirmed that this is an Aboriginal site.)

☒ **Partially destroyed** (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)

☐ **Destroyed** (The site was completely destroyed following authorised impacts.)

Geographic location

Site name: BF-SC3-14

Easting: 406549 **Northing:** 6373306 **Coordinates must be in GDA (MGA)**

Map sheet:

Zone: 56 **Location method:** Hand Held/Non Differential GPS

Primary recorder

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr	Brown	Jake

Organisation: Advitech Pty Ltd

Address: 7 Riverside Drive Mayfield West NSW 2304

Phone: 49245400 **E-mail:** jake.brown@advitech.com.au

Date recorded: 02/06/2020 **Fax:**

Site information

Open/closed site: Open

Features:

☐	1.	Aboriginal ceremony and dreaming	☐	11.	Habitation structure
☐	2.	Aboriginal resource and gathering	☐	12.	Hearth
☐	3.	Art	☐	13.	Non-human bone and organic material
☐	4.	Artefact	☐	14.	Ochre quarry
☐	5.	Burial	☐	15.	Potential archaeological deposit
☐	6.	Ceremonial ring	☐	16.	Stone quarry
☐	7.	Conflict	☒	17.	Shell
☐	8.	Earth mound	☐	18.	Stone arrangement
☐	9.	Fish trap	☐	19.	Modified tree
☐	10.	Grinding groove	☐	20.	Water hole

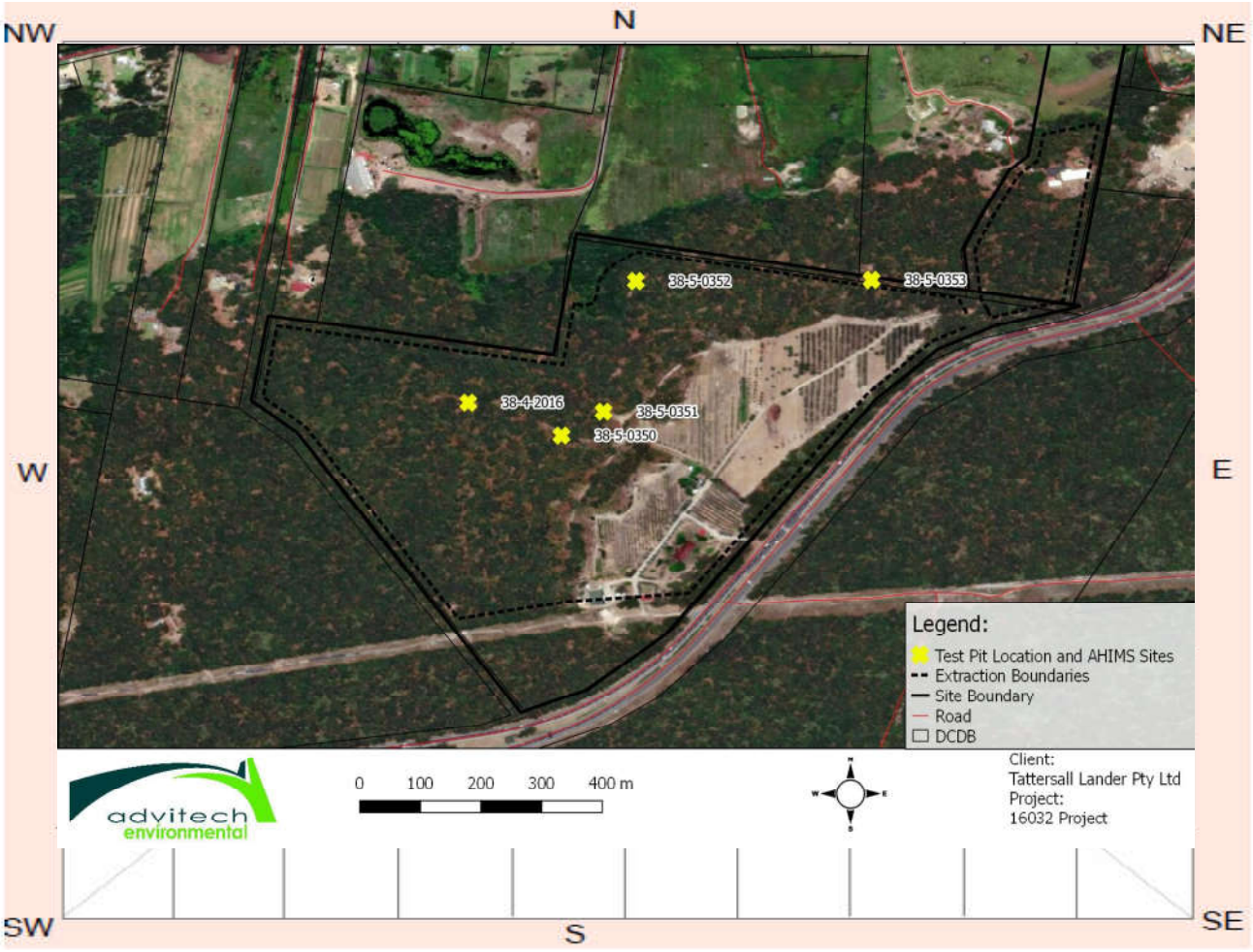
Site condition

Written description of the condition of the AHIMS site (including relevant features) following the authorised impact of the site

The site is disturbed due to being located on a track.

Site map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

This site was labelled as test pit 3, which reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spit two. This is consistent with the soil profile.

Management recommendations

Summary of any management recommendations for the AHIMS site

Management will be devised through an ACHMP.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

The site has low scientific and research potential. Cultural significance is indeterminate.

Additional comments

Site photographs

Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



Description: Bottom of test pit

Description:

Description:

Description:

Description:

Description:

Aboriginal Site Impact Recording Form

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      - State Significant Infrastructure (SSI - Part 5.1), or
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   d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
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AHIMS site ID: 38-5-0352

Site impact authorisation (select one)

Reference numbers, dates

☐ **Archaeological Code** (The impacts to this site were the result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW.*)

Date OEH was notified (under requirement 15c of the Code):

OEH Regional office notified:

☒ **AHIP** (The impacts to this site were authorised by an AHIP.)

AHIP number: C0005692

Date issued/signed: 14 April 2020

AHIMS permit ID/number: 4598

☐ **SSD/SSI/Part 3A application** (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I

Project number:

Date Director General's Requirements issued:

or

☐ **SSD/SSI/Part 3A approved project** (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)

Date of project approval:

Site status following impacts:

☐ **Not a site** (The investigations concluded that this is not a site.)

☒ **Valid site** (The investigations confirmed that this is an Aboriginal site.)

☐ **Partially destroyed** (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)

☐ **Destroyed** (The site was completely destroyed following authorised impacts.)

Geographic location

Site name: BF-SC4-14

Easting: 406592 **Northing:** 6373521 **Coordinates must be in GDA (MGA)**

Map sheet:

Zone: 56 **Location method:** Hand Held/Non Differential GPS

Primary recorder

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr	Brown	Jake

Organisation: Advitech Pty Ltd

Address: 7 Riverside Drive Mayfield West NSW 2304

Phone: 49245400 **E-mail:** jake.brown@advitech.com.au

Date recorded: 02/06/2020 **Fax:**

Site information

Open/closed site: Open

Features:

☐	1.	Aboriginal ceremony and dreaming	☐	11.	Habitation structure
☐	2.	Aboriginal resource and gathering	☐	12.	Hearth
☐	3.	Art	☐	13.	Non-human bone and organic material
☐	4.	Artefact	☐	14.	Ochre quarry
☐	5.	Burial	☐	15.	Potential archaeological deposit
☐	6.	Ceremonial ring	☐	16.	Stone quarry
☐	7.	Conflict	☒	17.	Shell
☐	8.	Earth mound	☐	18.	Stone arrangement
☐	9.	Fish trap	☐	19.	Modified tree
☐	10.	Grinding groove	☐	20.	Water hole

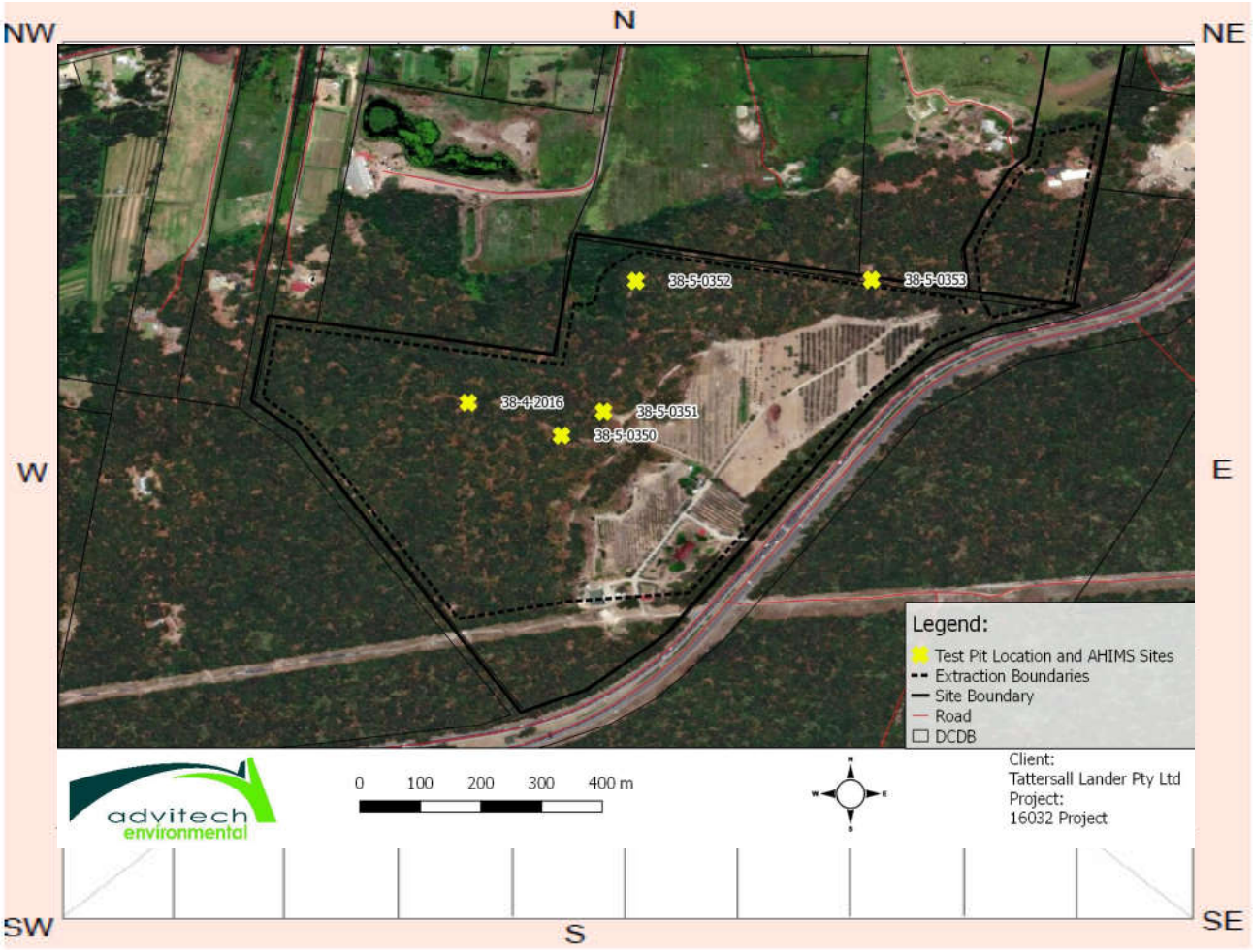
Site condition

Written description of the condition of the AHIMS site (including relevant features) following the authorised impact of the site

The site is disturbed due to being located on a track.

Site map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

This site was labelled as test pit 2 and reached a depth of 55 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. In spit 2 – 15 cm two pieces of shell were identified during the sieving process. One piece was a cockle shell fragment and the second was a fragment with a small inner spiral, possibly from a Mud Whelk. In spit 3 – 25 cm one piece of cockle was located within the pit during the excavation in the northern centre half and one cockle fragment was located during the sieving. At further depths no other shell contributions were located.

Management recommendations

Summary of any management recommendations for the AHIMS site

Management will be devised through an ACHMP.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

The site has low scientific and research potential. Cultural significance is indeterminate.

Additional comments

Site photographs

Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



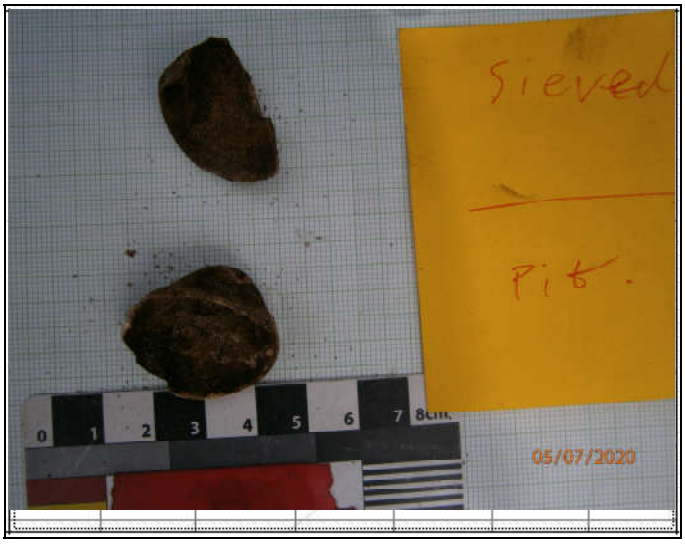
Description: Bottom of test pit



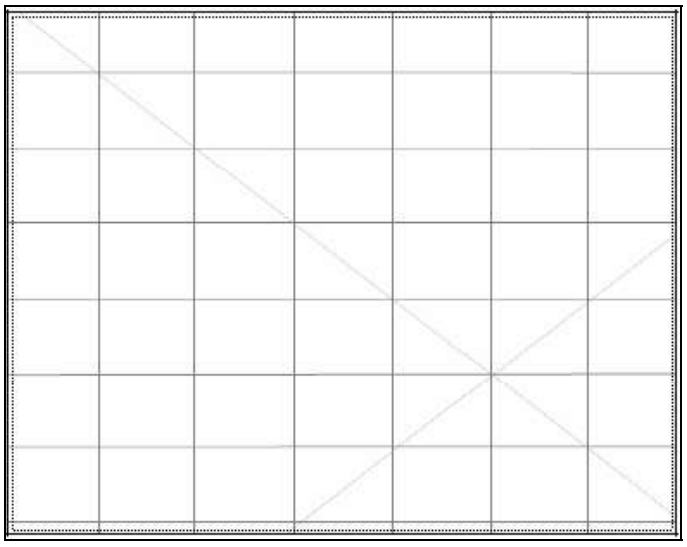
Description: 45cm spit



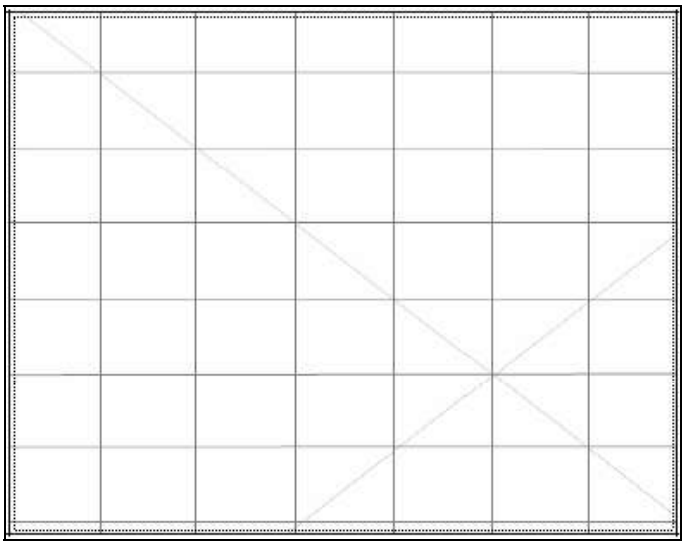
Description: Spit 2 shell



Description: Spit 3 shell



Description:



Description:

Aboriginal Site Impact Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW
April 2012 OEH 2012/0558

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      - State Significant Infrastructure (SSI - Part 5.1), or
      - A Major Project (Part 3A - now repealed) under the *Environmental Planning and Assessment Act 1979 (EP&A Act)*, or
   d) authorised by a SSD/SSI/Part 3A consent/approval under the EP&A Act.
2 Completed forms must be submitted to the AHIMS Registrar (www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm).
3 This form is intended to complement (not replace) the AHIMS Site Recording Form. Where there is a need to provide detailed information about the nature of a site, use the AHIMS Site Recording Form.
4 This form does not replace the need to submit reports to OEH (as a condition of an AHIP or SSD/SSI/Part 3A consent/approval) This form must be submitted in addition to any reports.

AHIMS site ID: 38-5-0353

Site impact authorisation (select one)	Reference numbers, dates
☐ Archaeological Code (The impacts to this site were the result of test excavation carried out in accordance with the *Code of Practice for the Archaeological Investigation of Aboriginal Objects in NSW.*)	Date OEH was notified (under requirement 15c of the Code): OEH Regional office notified:
☒ AHIP (The impacts to this site were authorised by an AHIP.)	AHIP number: C0005692 Date issued/signed: 14 April 2020 AHIMS permit ID/number: 4598
☐ SSD/SSI/Part 3A application (The impacts to this site were undertaken for the purposes of complying with Director General's Requirements issued by the DP&I ☐ SSD/SSI/Part 3A approved project (The impacts to this site were authorised by a consent/approval under Parts 4/5.1/3A of the EP&A Act.)	Project number: Date Director General's Requirements issued: or Date of project approval:

Site status following impacts:

- ☐ Not a site (The investigations concluded that this is not a site.)
- ☐ Valid site (The investigations confirmed that this is an Aboriginal site.)
- ☒ Partially destroyed (The site was partially destroyed following authorised impacts; a portion of the site remains in situ.)
- ☐ Destroyed (The site was completely destroyed following authorised impacts.)

Geographic location

Site name: BF-SC5-14

Easting: 406919 **Northing:** 6373526 **Coordinates must be in GDA (MGA)**

Map sheet:

Zone: 56 **Location method:** Hand Held/Non Differential GPS

Primary recorder

(The person responsible for the completion and submission of this form)

Title	Surname	First name
Mr	Brown	Jake

Organisation: Advitech Pty Ltd

Address: 7 Riverside Drive Mayfield West NSW 2304

Phone: 49245400 **E-mail:** jake.brown@advitech.com.au

Date recorded: 02/06/2020 **Fax:**

Site information

Open/closed site: Open

Features:

☐	1.	Aboriginal ceremony and dreaming	☐	11.	Habitation structure
☐	2.	Aboriginal resource and gathering	☐	12.	Hearth
☐	3.	Art	☐	13.	Non-human bone and organic material
☐	4.	Artefact	☐	14.	Ochre quarry
☐	5.	Burial	☐	15.	Potential archaeological deposit
☐	6.	Ceremonial ring	☐	16.	Stone quarry
☐	7.	Conflict	☒	17.	Shell
☐	8.	Earth mound	☐	18.	Stone arrangement
☐	9.	Fish trap	☐	19.	Modified tree
☐	10.	Grinding groove	☐	20.	Water hole

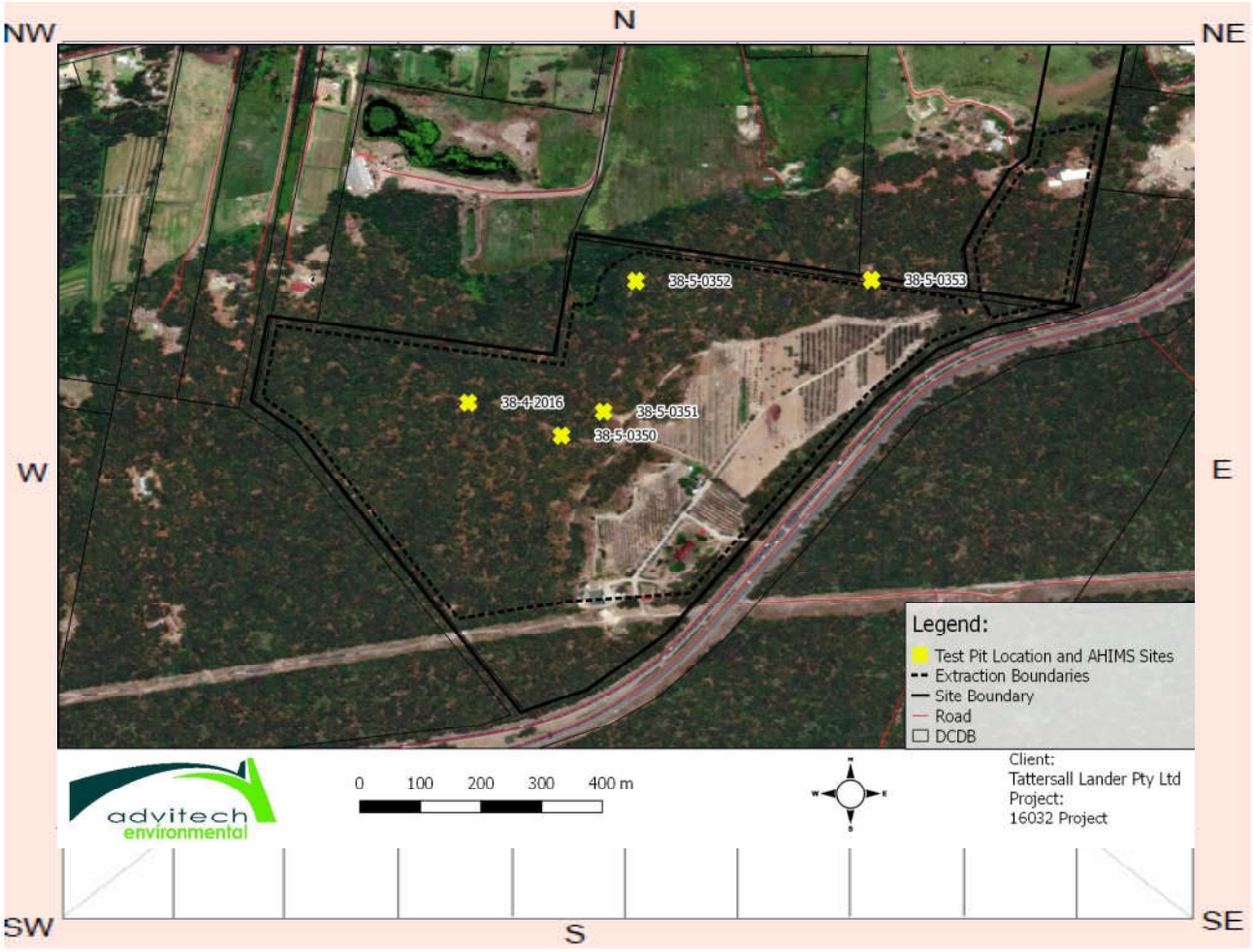
Site condition

Written description of the condition of the AHIMS site (including relevant features) following the authorised impact of the site

The site is disturbed due to being located on a track.

Site map

Clearly demarcate the original AHIMS site boundary, show the boundaries of impacted areas and the areas where the site remains in situ. Display map coordinates.



Methodology and results

Summary of the methodology and results of the activity or works undertaken through the authorised impacts, as relevant to the AHIMS site

This site was labelled as test pit 1 and reached a depth of 65 cm with the first unit excavated as a 5 cm spit and the rest as 10 cm spits. The site included no cultural finds. A small amount of charcoal was located in spits two to six. The original shell located in 2014 was not relocated, however a downed tree was across part of the site.

Management recommendations

Summary of any management recommendations for the AHIMS site

Management will be devised through an ACHMP.

Post-investigation significance

Discuss if the scientific/archaeological or cultural significance of the site has changed in light of the results of the investigations or works conducted at the site.

The site has low scientific and research potential. Cultural significance is indeterminate.

Additional comments

Site photographs

Include photographs of the authorised impacts activity, as relevant to the AHIMS site. Please keep photo size to a maximum of 200 kb.



Description: Bottom of test pit

Description:

Description:

Description:

Description:

Description:

Appendix V

Updated Site Plans 7 July, 2020

LEGEND

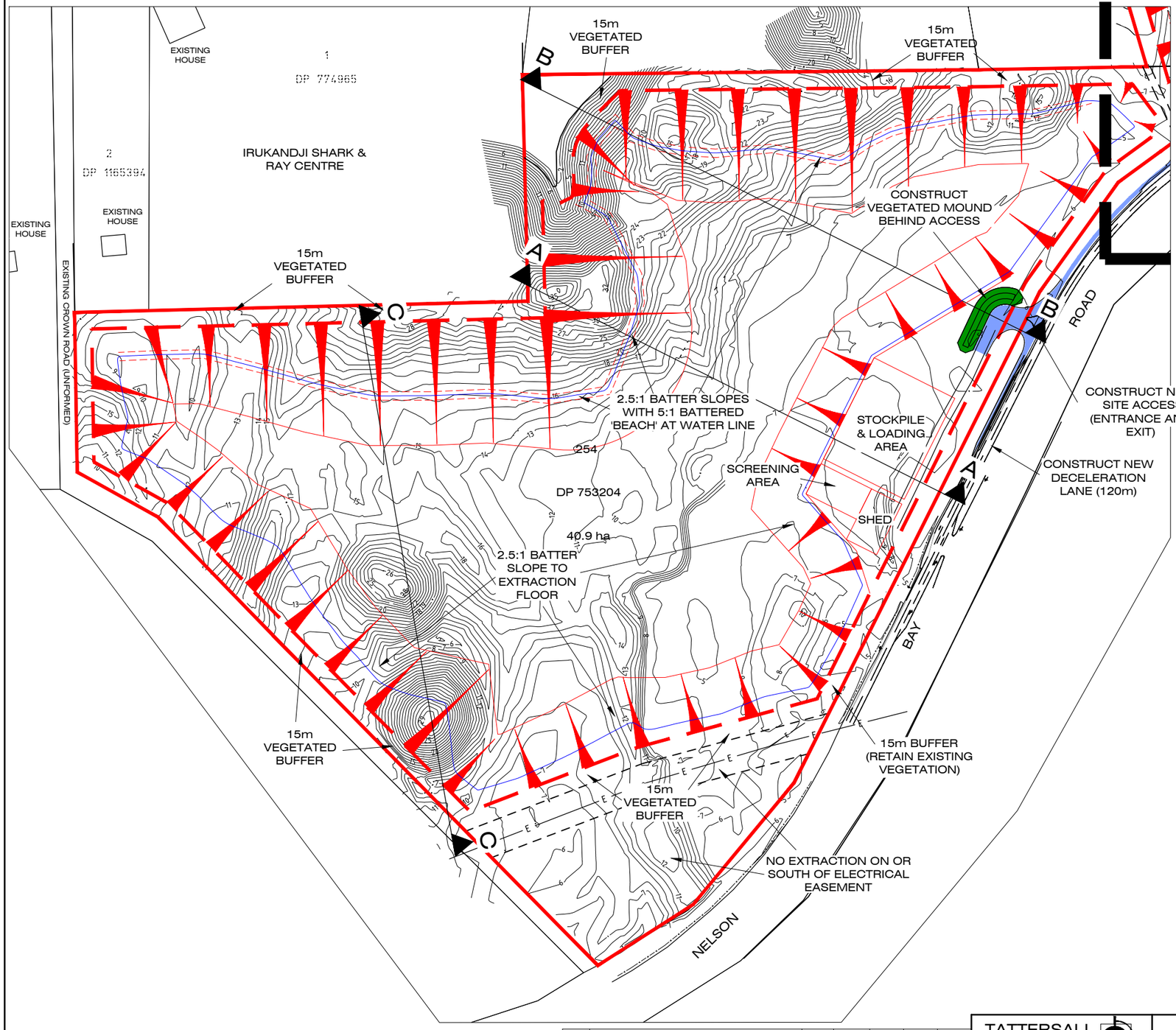
DENOTES PROPOSED SITE BOUNDARY

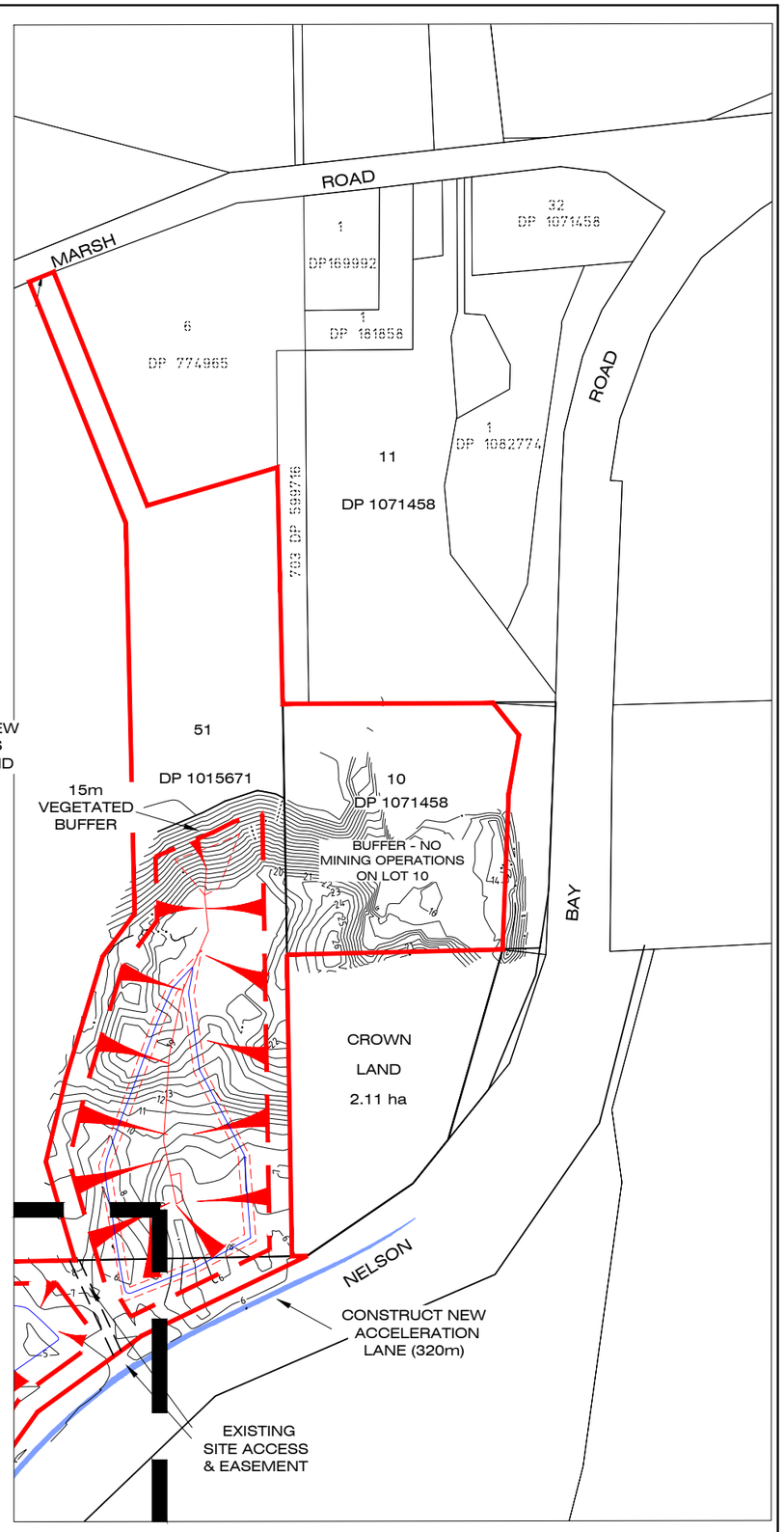
DENOTES PROPOSED EXTRACTION AREA - 36.07Ha
MAXIMUM EXCAVATION LEVEL -15.0m AHD

INDICATIVE VEHICLE HAUL ROUTE

EXISTING CONTOURS
1m INTERVALS

DENOTES INDICATIVE FINAL WATER BODY - 24.27Ha
ASSUMED 1.8m AHD





0 20 40m
(1: 2000for A1 Size Plot)

REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
F	Lot 10 Buffer Included	AV	AV			
E	Site Extents and Entrance Revised	DS	DS			
D	Reduced Footprint - Additional Buffers Added	AV	AV			
C	Footprint Withdrawn from Electrical Easement	AV	AV			

* Denote the original signature and date when revision was issued.

TATTERSALL LANDER PTY LTD
DEVELOPMENT CONSULTANTS
ENGINEERING, SURVEYING & PLANNING
2 Bourke St. P.O.Box 580
RAYMOND TERRACE 2324
Fax (02) 49871733 Phone (02) 49871500

PLAN OF PROPOSED SAND MINE
LOT 254 DP 753204, LOT 51 DP 1015671, LOTS 10 & 11 DP 1071458
NELSON BAY ROAD
BOBS FARM

COUNCIL: PORT STEPHENS	REFERENCE: 21400060
PARISH: TOMAREE	SHEET SIZE: A1
SCALE: 1:2000 on A1	SHEET No.: 1 of 3
DATE : Plotted 7/7/20 12:35 PM	
CLIENT: PATRA HOLDINGS PTY LTD	JOB No.: 212434
COMPUTER FILE : S:\Clients\2012\212434\Dwg\Layout Plan.dwg	

LEGEND

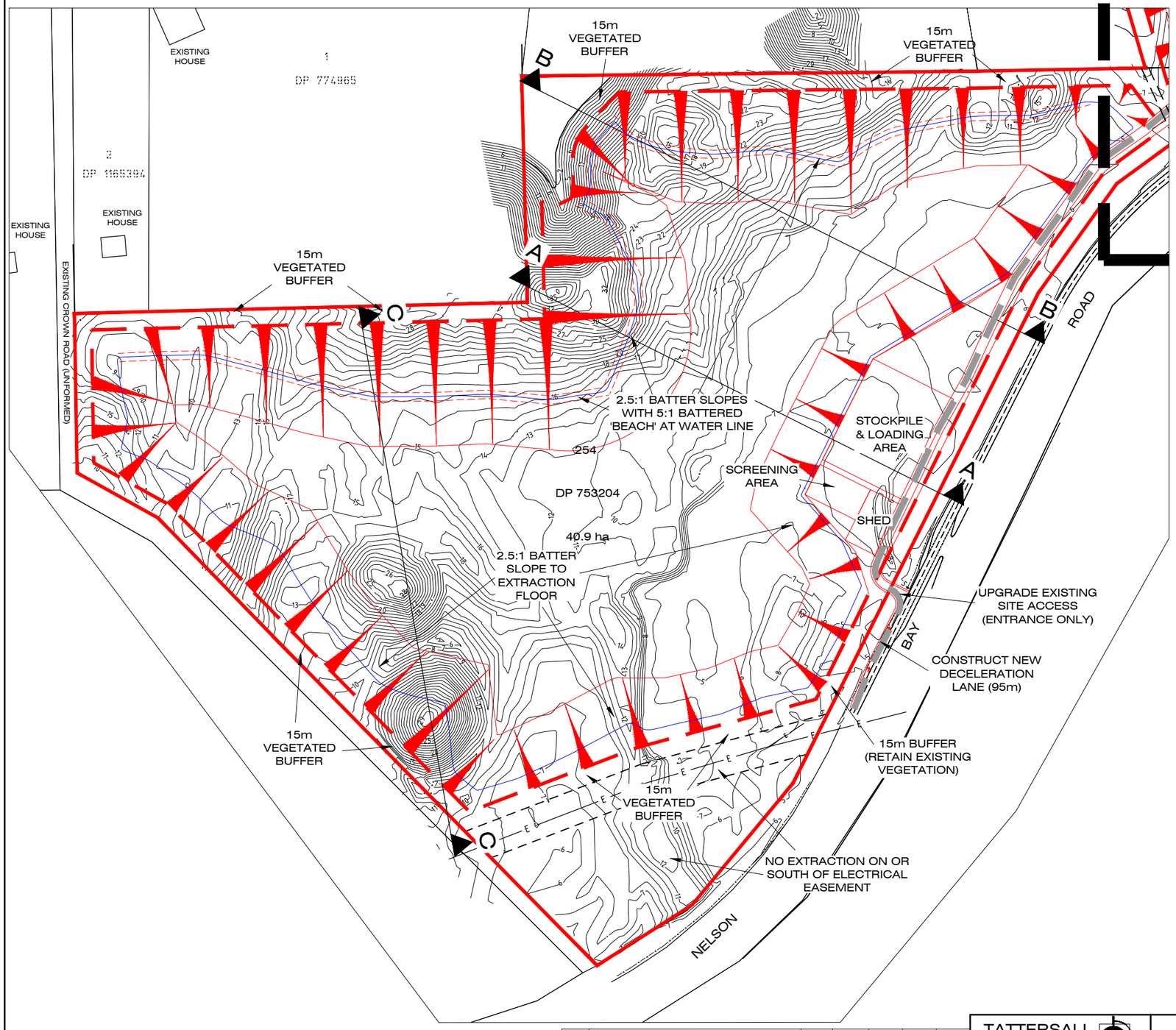
DENOTES PROPOSED SITE BOUNDARY

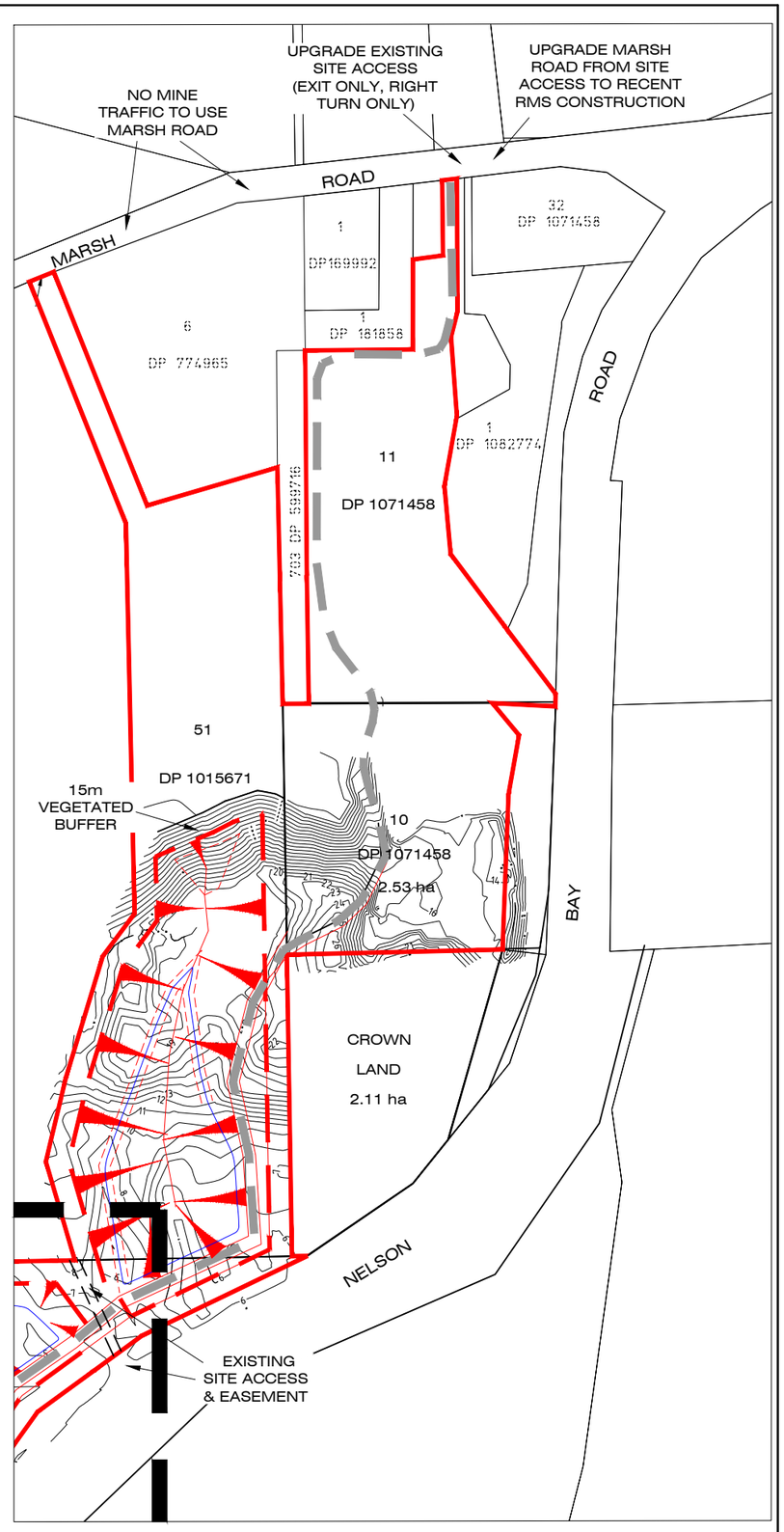
DENOTES PROPOSED EXTRACTION AREA - 36.07Ha
MAXIMUM EXCAVATION LEVEL -15.0m AHD

INDICATIVE VEHICLE HAUL ROUTE

EXISTING CONTOURS
1m INTERVALS

DENOTES INDICATIVE FINAL WATER BODY - 24.27Ha
ASSUMED 1.8m AHD





(1: 2000for A1 Size Plot)

REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
D	Reduced Footprint - Additional Buffers Added	AV	AV			
C	Footprint Withdrawn from Electrical Easement	AV	AV			
B	Batter Slopes Modified	AV	AV			
A	Original Issue	AV	AV			

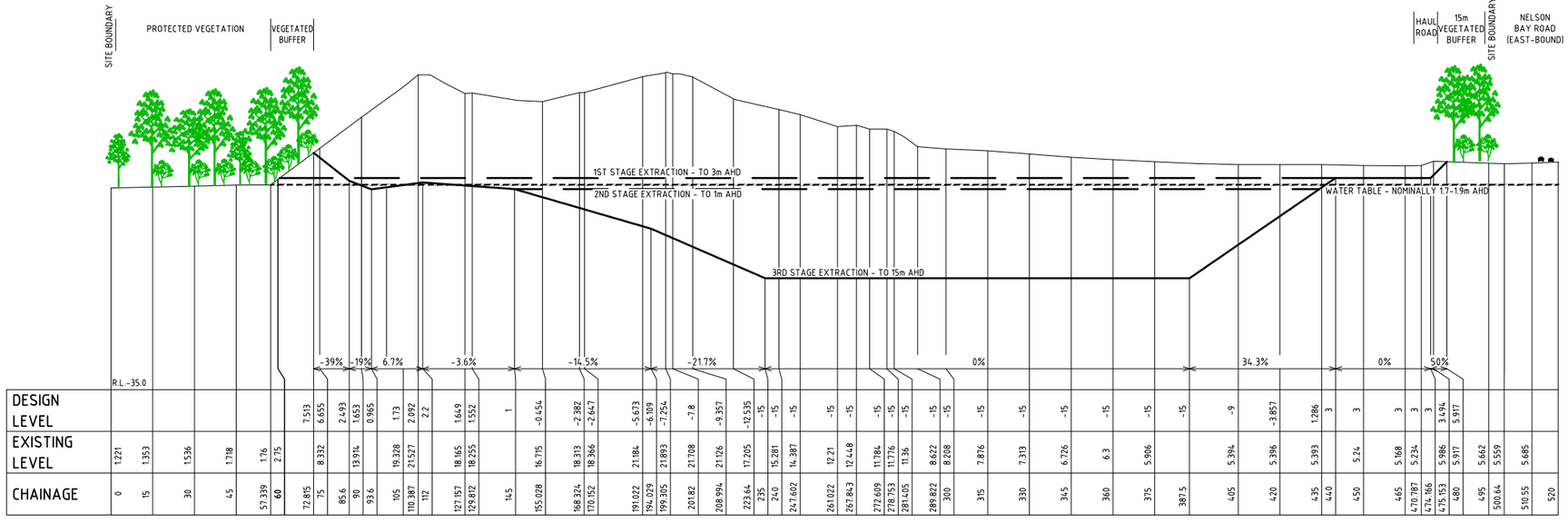
* Denote the original signature and date when revision was issued.

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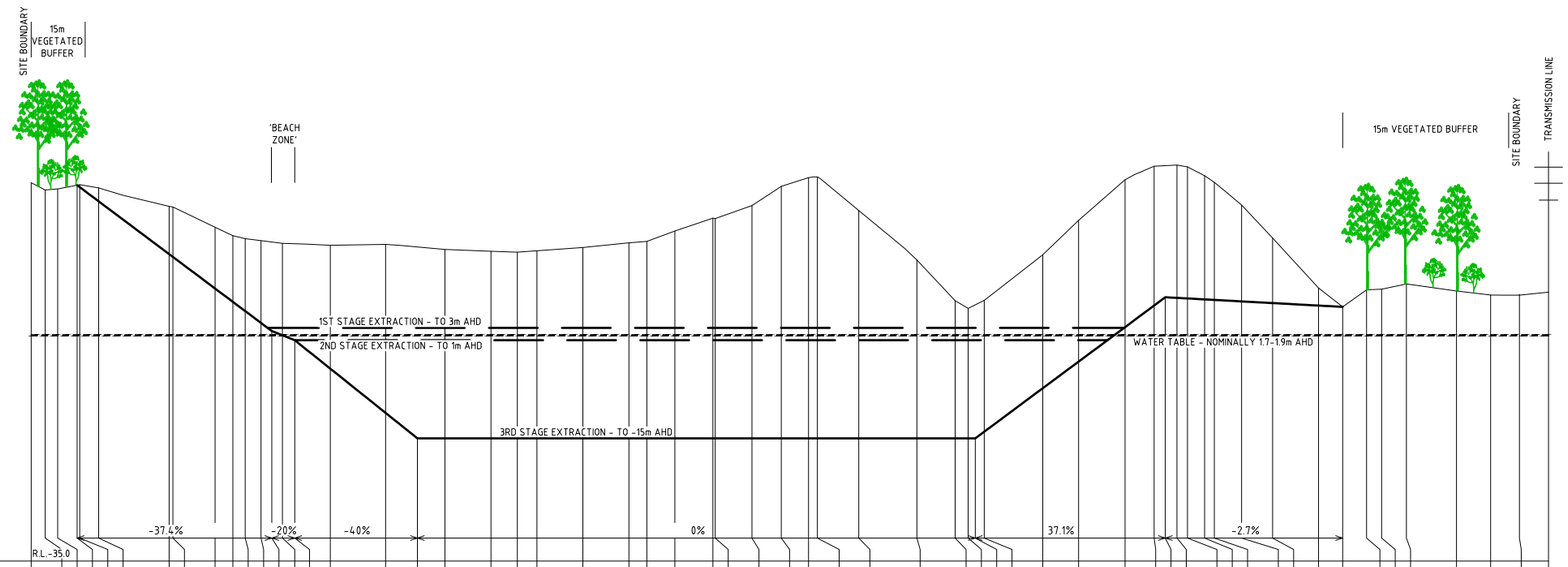
PLAN OF PROPOSED SAND MINE
LOT 254 DP 753204, LOT 51 DP 1015671, LOTS 10 & 11 DP 1071458
NELSON BAY ROAD
BOBS FARM

COUNCIL: PORT STEPHENS	REFERENCE: 21400060
PARISH: TOMAREE	SHEET SIZE: A1
SCALE: 1:2000 on A1	SHEET No.: 1 of 3
DATE : Plotted 09:44 19/07/18	

CLIENT: PATRA HOLDINGS PTY LTD | JOB No.: 212434 | COMPUTER FILE : S:\Clients\2012\212434\Dwg\Layout Plan.dwg


SITE BOUNDARY
PROTECTED VEGETATION
VEGETATED BUFFER
HAUL ROAD
15m VEGETATED BUFFER
SITE BOUNDARY
NELSON BAY ROAD (EAST-BOUND)
1ST STAGE EXTRACTION - TO 3m AHD
2ND STAGE EXTRACTION - TO 1m AHD
3RD STAGE EXTRACTION - TO 15m AHD
WATER TABLE - NOMINALLY 1.7-1.9m AHD
-39%
-19%
6.7%
-3.6%
-14.5%
-21.7%
0%
34.3%
0%
50%

| | | |


SITE BOUNDARY
15m VEGETATED BUFFER
'BEACH ZONE'
15m VEGETATED BUFFER
SITE BOUNDARY
TRANSMISSION LINE
1ST STAGE EXTRACTION - TO 3m AHD
2ND STAGE EXTRACTION - TO 1m AHD
3RD STAGE EXTRACTION - TO -15m AHD
WATER TABLE - NOMINALLY 1.7-1.9m AHD
-37.4%
-20%
-40%
0%
37.1%
-2.7%
R.L.-35.0

| | | |

APPENDIX II: Consultation Log for establishment of ACHMP

Bobs Farm Sand Mine

Date	Communication Type	Sent/Received	Advitec Personnel Making/Taking Comms	Internal/External Comms	Name of Sending/Receiving Stakeholder	Content of Comms	Actions
10/04/2019	Phone	Sent By	Jake Brown	External	OEH	The number provided was wrong, I spoke to Kathrine and left a message for Steven Cox the contact officer. Kathrine gave me Steven's number and I tried the number left another message regarding consultation query.	Message left with office and on voicemail
12/04/2019	Phone	Sent By	Jake Brown	External	OEH - Steven Cox	Called Steven again reached voicemail and did not leave second message.	No message left
12/04/2019	Email	Sent By	Jake Brown	External	OEH	Email sent to rog.hcc@environment.nsw.gov.au requesting clarification of consultation requirements and mentioning sites do not appear to be registered.	
15/04/2019	Phone	Sent By	Jake Brown	External	OEH	Called OEH conservation and regional development Newcastle and asked for contact with Steven Cox or relevant party that could assist with answering questions. Message and phone number taken and told that someone would be in contact.	
16/04/2019	Phone	Received By	Jessica Blackman	External	OEH - Gillian Goode	Gillian called in response to correspondence. AECOM site registration will be investigated, consultation out of date. Discussion about ACHMP and AHIP	
6/05/2019	Phone	Sent By	Jake Brown	External	OEH - Gillian Goode	Called Gillian to ask question about follow up questions	Message left on voicemail
10/05/2019	Email	Sent By	Jake Brown	External	OEH - Gillian Goode	Email sent to Gillian with questions concerning consultation and AHIP process	
15/05/2019	Phone	Sent By	Jake Brown	External	OEH	Called OEH and asked to speak to Gillian Goode or Steven Cox. Bernedette said both unavailable and I left a message for Gillian.	
15/05/2019	Phone	Received By	Jake Brown	External	OEH - Gillian Goode	Gillian called and left a message as I had left for the day. Call was follow up to previous contact.	
16/05/2019	Phone	Sent By	Jake Brown	External	OEH - Gillian Goode	Called Gillian after return call 15/05/2019, message left	
17/05/2019	Email	Sent By	Jake Brown	External	OEH - Gillian Goode and Steven Cox	Email sent to both Gillian and Steven asking for clarity on project points	BCC sent to Bob Lander. Read receipt requested. Receipt from Steven, ROG BOX
21/05/2019	Email	Received By	Jake Brown	External	OEH - Gillian Goode	Gillain tried to call previous week and I was not in the office. Email includes site cards from AECOM sites which were not registered. Gillian states that IEH is writing a response to queries about Bobs Farm.	Reply sent saying attempted call to Gillian next morning.
6/06/2019	Email	Sent By	Rod Bennison	External	OEH - Gillian Goode	Follow up email to Gillian asking for details about job, after a phone conversation	
13/06/2019	In Person	Sent By	Jake Brown	External	OEH - Gillian Goode and Steven Cox	Jessica and I met at OEH with Gillian and Steven to discuss project. OEH outlined they require an ACHA as other is considered out of date, advise excavation and ACHMP. Jake requested written comfirmation and sent email to Gillian and Steven outlining meeting points and requesting confirmation. Phone after meeting from Gillian, discussing excavation points shown in meeting and refering a few document as sources/references.	Email reply from confimration email from Steven asking future correspondence sent to department email, not personal work emails. Confirmation email resent to department email as requested 14/6/2019.
14/06/2019	Email	Sent By	Jake Brown	External	Hunter LLS	Initial ACHA consultation letter sent	Automated acknowledgement response received
14/06/2019	Email	Sent By	Jake Brown	External	OEH Newcastle	Initial ACHA consultation letter sent	OEH response from Steven Cox 20/6/2019
14/06/2019	Email	Sent By	Jake Brown	External	Port Stephens Council	Initial ACHA consultation letter sent	Automated acknowledgement response received. Response received 18/6/2019 saying contact Worimi LALC
14/06/2019	Email	Sent By	Jake Brown	External	NTSCORP	Initial ACHA consultation letter sent	
14/06/2019	Email	Sent By	Jake Brown	External	NNTT	Initial ACHA consultation letter sent	Response 18/6/2018 - Freehold land
14/06/2019	Email	Sent By	Jake Brown	External	Registrar Office	Initial ACHA consultation letter sent	
14/06/2019	Email	Sent By	Jake Brown	External	Worimi LALC	Initial ACHA consultation letter sent	
17/06/2019	Email	Sent By	Jake Brown	External	Fairfax - Port Stephens Examiner: Vicki Laidler	Organising classifieds ad for community consultation - 4 July 2019	Ad placed for 4 July 2019
18/06/2019	Email	Received By	Jake Brown	External	Port Stephens Council - Amber Herrmann Community Development and Engagement Coordinator	Response to consultation letter saying consult Worimi LALC	
18/06/2019	Email	Received By	Jake Brown	External	NNTT Geospatial search	NNTT concludes land is Freehold	
20/06/2019	Email	Received By	Jake Brown	External	OEH - Steven Cox	OEH consultation response with Port Stephens LGA names	
20/06/2019	Email	Sent By	Jake Brown	External	Fairfax - Port Stephens Examiner: Vicki Laidler	Inquiry sent to confirm ad was placed and no further details needed	
28/06/2019	Email	Received By	Jake Brown	External	Jamie Merrick - Worimi LALC	Registered interest for Worimi LALC. Cc of Lennie and Anthony Anderson	Record in log and sent reply outlining dates for general registration and methodology
28/06/2019	Email	Received By	Jake Brown	External	Lennie Anderson	Nur-Run-Gee representing Worimi TEOG registered interest	Reply sent thanking Lennie for registration
2/07/2019	Email	Sent By	Jake Brown	External	A1 Indigenous Services, AGA Services, Cacatua Culture Consultants, Corroboree Aboriginal Corporation, Didge Ngunawal Clan, Divine Diggers Aboriginal Cultural Consultants, Hunters & Collectors, Karuah Indigenous Corporation, Karuah Local Aboriginal Land Council, Kawul Pty Ltd trading as Wonn1 Sites, Lakkari NTCG, Lower Hunter Aboriginal Incorporated, Lower Hunter Wonnarua Cultural Services, Mindaribba Local Aboriginal Land Council, Murra Bidgee Mullangari Aboriginal Corporation, Mur-Roo-Ma Inc., Roger Matthews Consultancy, Wattaka Wonnarua CC Service, Widescope Indigenous Group, Wonnarua Elders Council, Worimi Traditional Owners Indigenous Corporation.	Initial contact for potential interested parties (OEH list)	Email with letter attached
2/07/2019	Email	Sent By	Jake Brown	External	Jeffery Matthews, Wonnarua Elders Council and Carol Ridgeway-Bissett	Initial contact for potential interested parties (OEH list)	Letter sent
2/07/2019	Email	Received By	Jake Brown	External	Corroboree Aboriginal Corporation - Marilyn Carroll-Johnson	Registered interest - requests details not sent to OEH and LALC	Received EOI
2/07/2019	Email	Received By	Jake Brown	External	Murra bidgee Mullangari - Ryan Johnson	Registered interest - site officer Ryan Johnson (sent by Darleen)	
2/07/2019	Email	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Registered interest	
4/07/2019	Email	Received By	Jake Brown	External	Mur roo ma inc - Anthony Anderson	Registered interest	Bec Young (Operation Manager), Anthony Anderson (CEO)
5/07/2019	Email	Received By	Jake Brown	External	Worimi TOIC - Candy Towers	Registered interest	
5/07/2019	Email	Received By	Jake Brown	External	Widescope - Steven Hickey	Registered interest	
9/07/2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Registered interest	
15/07/2019	Email	Received By	Jake Brown	External	A1 Indigenous Services - Carolyn Hickey	Registered interest	
19/07/2019	Email	Received By	Jake Brown	External	All RAPs	Methodology sent for review/asking for any relevant cultural knowledge for the site.	Bcc all RAPs in email with methodology and reply forms.
19/07/2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Responsed with forms from methodology. Inidcated he had cultural knowledge of the are and was willing to verbally provide this for report at the time of response.	
20/07/2019	Email	Received By	Jake Brown	External	Deidre Perkins	Late registered party, methodology sent 22 July	LATE REGISTERING
21/07/2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Late registered party, methodology sent 22 July	LATE REGISTERING- Provided cultural knowledge holders: herself, Worimi LALC, Candy Towers and Lennie Anderson
22/07/2019	Email	Received By	Jake Brown	External	Deidre Perkins	Question sent regarding the methodology email and late registration. Response saying email from 20 July was accepted as registration.	
23/07/2019	Email	Received By	Jake Brown	External	Ryan Johnson - Murra Bidgee Mullangari	Responded to methodology - agreed with method	Replied to read receipt
23/07/2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Responded to methodology - agreed with method	
25/07/2019	Email	Received By	Jake Brown	External	Tom Miller - Lower Hunter Wonnarua Cultural Services	Respondeed late to registration - accepted and sent methdology for review. Mentioned nominal reply date 20 August and that the report should be out early September for review.	Tom cc Steven Cox from OEH. Reply included Steven.
30/07/2019	Email	Sent By	Jake Brown	External	Jamie Merrick - Worimi LALC, Anthony Anderson - Mur-Roo-MA and Lennie Anderson - Nur-Run-Gee	Inquiring about ability to do fieldwork. If possible please provide insurance details. Asked Lennie if details had chnaged since Shearwater job (though vehicle was not provided). Insurances (public liability, workers comp and vehicle) and daily/hourly rate.	
30/07/2019	Email	Received By	Jake Brown	External	Jamie Merrick - Worimi LALC	Replied that WLALC can provide a RAP for Bobs Farm. Included rates for day and half day. Also mentioned knowledge holders Anthony Anderson, Lennie Anderson and Dave Feeney. Second email with insurances attached.	Reply sent thanking Jamie for emails and information, as well as saying that I will be in contact mid August to confirm details. Information saved.
30/07/2019	Email	Received By	Jake Brown	External	Lennie Anderson	Replied that Nur-Run-Gee can provide a RAP for fieldwork. Confirmed insurances and rates the same. Likely vehicle insurance policy number provided.	Reply sent thanking Lennie, as well as saying that I will be in contact mid August to confirm detail. Information saved.
1/08/2019	Email	Received By	Jake Brown	External	Mur roo ma inc - Bec Young	Replied that Mur Roo Ma can provide a RAP. Provided public liability and workers comp insurances and rates.	reply sent thanking Bec for information, as well as saying that I will be in contact mid August to confirm detail.
16/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma inc, Worimi LALC and Nur Run Gee (field RAPS)	Details about field work meeting - 8:30 am start, meeting address and map, contact details.	
19/08/2019	Email	Sent By	Jake Brown	External	OEH and Worimi LALC	Sent notification of registered parties minus those who wished to withhold details	

20/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma Inc - Bec Young	Agreed with methodology and noted the area and lot had connection to spiritual, cultural and social values. Mentioned Chris Collison will be the RAP from Mur roo ma Inc for survey.	
20/08/2019	Email	Sent By	Jake Brown	External	DPIE (OEH) and Worimi LALC	Amendment to notification list	
29/08/2019	Phone	Sent By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Called to asked Dave if he had any additional information as indicated on methodlogy response. I asked Dave if he would prefer to responded after reading draft report. He indicated that was preferable.	
30/08/2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Asked for details of field work for invoice.	Sent reply to all fieldwork RAPs
30/08/2019	Email	Sent By	Jake Brown	External	Mur roo ma inc, Worimi LALC and Nur Run Gee (field RAPS)	Thanked groups for effort during fieldwork. Mentioned field hours for 26 and 27 (8am to 1:30pm) and asked invoices to be made out to Ammos Resource Management Pty Ltd. Mentioned I would forward the invoices to my client upon receipt.	
31/08/2019	Email	Sent By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Nur Run Gee normally charges for full day after 4 hours.	CC included Mur Roo Ma and Worimi LALC
6/09/2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Sent invoice for survey	Forwarded to client and responded to RAP to acknowledge receipt of invoice
9/09/2019	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Sent invoice for survey Friday 6/9/2019	Forwarded to client and responded to RAP to acknowledge receipt of invoice
10/09/2019	Email	Received By	Jake Brown	External	Worimi LALC	Sent invoice for survey	Forwarded to client (invoice says Brendan Lilley not Jaime Merrick)
12.9.2019	Email	Sent By	Jake Brown	External	All RAPs	Draft ACHAR sent for review. Large file so three emails sent. 1. report, 2. appendices 1, 3. appendices 2.	
12.9.2019	Email	Sent By	Jake Brown	External	OEH Newcastle	Draft ACHAR with limited appendices due to size and test excavation methodology sent to OEH for potential review as advised in May meeting.	Read receipt received from OEH 12.9.2019
8.10.2019	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Karuah Indigneous Corp has been having trouble with past email address and has moved to dave.feeney@bigpond.com as a temporary measure	
9.10.2019	Email	Received By	Jake Brown	External	All RAPs	Reminder of ACHAR review ending 11 October 2019 if anyone wishes to comment	
9.10.2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Accepts and agrees with report.	
9.10.2019	Email	Received By	Jake Brown	External	Mur roo ma Inc - Bec Young	Supports recommendations, wishes to stress cultural values of the area and surroundings	
11.10.2019	Email	Received By	Jake Brown	External	Widescope - Steven Hickey	Supports recommendations of the draft ACHAR	
13.11.2019	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Bobs Farm ACHAR	
18.11.2019	Email	Received By	Jake Brown	External	Worimi LALC	Resent invoice. Return query confirmed same invoice and not error like before. Emailed client to follow up.	Forwarded to client. Reply from client forwarded 19.11.2019. Reply received from Worimi 2.12.2019 comfirming payment was received in September.
19.2.2020	Email	Sent By	Jake Brown	External	All RAPs	Sent email saying AHIP has been lodged. If anyone has queries please get in touch. Consultation will continue with ACHMP and test excavation.	
19.2.2020	Email	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Responded to update, looks forward to continued propject involvement.	
19.2.2020	Email	Received By	Jake Brown	External	Deidre Perkins	replied confirming receipt of email	
25.2.2020	Email	Received By	Jake Brown	External	Ryan Johnson - Murra Bidgee Mullangari	replied confirming receipt of email	
25.3.2020	Email	Sent By	Jake Brown	External	Worimi LALC, Murrooma and Nur Run Gee.	Asking about availbility in late April or Early May for test excavation.	
25.3.2020	Email	Received By	Jake Brown	External	Worimi LALC	Jamie Merrick responsed saying the LALC can have a representative available on the given dates	
25.3.2020	Email	Received By	Jake Brown	External	Murrooma	Bec responding saying they can provide a representative.	
25.3.2020	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Lennie said thank you for correspondence and let him know at earliest convenience.	
31.3.2020	Phone	Received By	Jake Brown	External	Worimi LALC	Brendan from the LALC called to say he was taking over the field work from Jamie for a while and the LALC was keeping minimum staff running. Asked about Bobs Farm and I said I would let him know as soom as possible and Advitech would follow government guideline for Coronavirus. Still intend to undertake dig in April/May.	
12.4.20	Email	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Response to email from February saying looking forward to hearing from you soon.	
14.4.20	Email	Sent By	Jake Brown	External	All RAPs	Sent email notify status of project and test excavation AHIP.	
14.4.20	Phone	Received By	Jake Brown	External	Tamara Towers - Worimi Aboriginal Cultural Services	Tamara called about 11:20am to ask about Bobs Farm. Wanted to know if there was a possibility of being included in the excavation. I said we were using the orginal three parties for continuty. For the report and ACHMP all parties would still be consulted. If one party can't supply a person for dig, i would consider Tamara for a position.	
14.4.20	Phone	Received By	Jake Brown	External	Didge Ngunawal Clan - Paul Boyd and Lilly Carroll	Rang to ask if his assistance was required on the project. I said at this time three groups from original project are involved. His involvement in the ACHMP and review of report are still valued.	
14.4.20	Email	Received By	Jake Brown	External	Dave Feeney - Karuah Indigenous Corporation	Dave sent email saying is 7:30 on the 27 alright? I responded saying sorry for the confusion, his group was not one of the oringinal parties.	
14.4.20	Email	Sent By	Jake Brown	External	All RAPs	An email was sent to clarify who original three groups are and that input into the ACHMP and report review will be requested of all groups.	
15.4.20	Email	Received By	Jake Brown	External	Worimi TOIC - Candy Towers	Sent email saying she would like to be involved in the excavation. Replied saying I can't facilitate everyone being involved in fieldwork, however ACHMP and review of report are open to everyone.	Responses on 20 May further to discussion. I responsed saying the fieldwork had been organised and that I was not able to expand people on site.
15.4.20	Email	Sent By	Jake Brown	External	Worimi LALC, Murrooma and Nur Run Gee.	Sent email saying they should have received an email yesterday about the AHIP notice. AHIP will be followed. Moving work to 4 May due to public holiday. Maybe 8:30 am start. Happy to discuss.	
15.4.20	Email	Received By	Jake Brown	External	Murrooma - Bec	Bec confirmed a representative would be on site. Responded saying thank you.	
15.4.20	Email	Received By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Lennie confirmed Chris Collison will be available. Replied saying thank you and I will keep him up to date.	
28.4.20	Email	Sent By	Jake Brown	External	Worimi LALC, Murrooma and Nur Run Gee.	Sent email asking for proof of insurances (workers comp, public liability and vehicle insurance)	Response and proof from all parties
1.5.20	Email	Sent By	Jake Brown	External	All RAPs	Email to say that excavation dates are now 4 May due to error that I thought a public holiday was the previous week.	Responses from Lilly Carroll and Ryan Johnson about excavation. Confirmed previous email with three parties listed as site participants still held.
8.5.20	Email	Sent By	Jake Brown	External	Nur Run Gee - Lennie Anderson	Sent invoice for test excavation	Passed onto client.
13.5.20	Email	Received By	Jake Brown	External	Murrooma	Asking about details of AHIP and limited flexibility in site choice once on site.	Responded that the five registered sites was what was approved and the coordinates of pits were in AHIP.
28.5.20	Email	Received By	Jake Brown	External	Murrooma	Invoice for test excavation received	Passed onto client.
8.7.20	Email	Sent By	Jake Brown	External	All RAPs	Sent draft test excavation report and ACHMP to all RAPs via email. Sent report via post as well	
23.7.20	Email	Sent By	Jake Brown	External	All RAPs	Sent email updating that no comments had been received on ACHMP. None on report either. Report consult ends on 5 August. Will email about ACHMP on 4 August or as comments come in.	
23.7.20	Phone	Sent By	Jake Brown	External	Charlene- Murra Bidgee Mullangari	Charlene called to say that given they weren't involved in fieldwork and are not getting paid to review report to comment will be forthcoming. I said I appreciated the call to notify of intent.	
24.7.20	Email	Received By	Jake Brown	External	Murrooma	Bec asked if any of her previous correspondence had been included in the report. I reponsed saying it was included in the correspondence log at present. Any comment about the report will in section 3 and appendix I.	
24.7.20	Email	Received By	Jake Brown	External	Deidre Perkins	Deidre responded saying no comment based on not being involved in the fieldwork.	Thanked Deidre for response
3.8.20	Email	Received By	Jake Brown	External	Worrimi LALC	Brendan Lilley called asking about response date and what format for response e.g. email. I said the end of the 5th was the response date and email was fine. Brendan said they had a few concerns.	
4.8.20	Email	Received By	Jake Brown	External	Worrimi LALC	Jamie Merrick responsed saying the LALC has a concern about RAPs not being able to move test excavation locations during excavation.	Responded saying this was the wording of the methodology and what was approved by BCD.
4.8.20	Email	Received By	Jake Brown	External	Murrooma	Response to test excavation report says dune area has an extremely strong cultural connection, and not sure 5 test pits is adequate for the area. Response to ACHMP says regular inspections (monthly or less need to be included. Supports Worimi LALC being care holders.	
6.8.20	Email	Sent By	Jake Brown	External	Worrimi LALC	Sent Jamie Merrick an email asking if Worimi LALC would be willing to store salvaged items under care and control agreement.	Responsed saying he would talk to Murrooma and Nur-Run-Gee

Jake Brown

From: Jake Brown
Sent: Tuesday, 10 November 2020 8:00 AM
To: Jamie Merrick
Subject: RE: Safekeeping of objects

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Thanks Jamie

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 4 November 2020 1:23 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Safekeeping of objects

Hi Jake
I've already sent the forms to heritage
See attached

Regards,

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 4 November 2020 1:23 PM
To: Jake Brown
Subject: Safekeeping of objects
Attachments: 20201029114717342.pdf

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

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Jake Brown

From: Jake Brown
Sent: Tuesday, 3 November 2020 7:36 AM
To: Jamie Merrick
Subject: RE: Safekeeping

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Jamie,

Thanks very much for filling out the form and sorry for the late reply. If you could send me a copy that would be great. I am happy to forward to the department if you like.

Regards,

Jake

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Thursday, 29 October 2020 11:35 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Safekeeping

Hi Jake
I have filled in the paperwork for the safekeeping of aboriginal objects.
Do you want me to send them back to you or send them to NSW Heritage department
Regards,

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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WORIMI Local Aboriginal Land Council

Think before you print.

Jake Brown

From: David Feeney <indigenouskaruah@outlook.com>
Sent: Friday, 30 October 2020 8:16 AM
To: Jake Brown
Subject: RE: ACHMP Bobs Farm

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Thanks Jake

From: Jake Brown
Sent: Thursday, 29 October 2020 8:20 AM
Subject: ACHMP Bobs Farm

Hello,

From the draft REV 6 of the ACHMP sent on the 21 October, 2020 I have received one response confirming previous sentiments about the involvement of the Worimi people in the project. Due to no more issues being raised, I will look to finalise the ACHMP.

A finalised copy will be emailed to all RAPs.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400

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Jake Brown

From: Jake Brown
Sent: Thursday, 29 October 2020 8:20 AM
To: Andrew Smith; Sites
Subject: Care and control agreement Bobs Farm
Attachments: Bobs Farm Sand Mine Care and Control Agreement.pdf

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Andrew and Jamie,

Regarding the Bobs Farm Sand Mine and previous discussions about a care and control agreement where Worimi LALC would be the custodian for any items, I sent a care and control agreement form on the 30 September. Is Worimi LALC still willing to be the custodian and complete the care and control agreement?

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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Jake Brown

From: David Feeney <indigenouskaruah@outlook.com>
Sent: Wednesday, 21 October 2020 5:12 PM
To: Jake Brown
Subject: RE: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake;

I have read the Aboriginal Cultural Heritage Management Plan Bobs Farm Sand Mine
At this stage It all looks great, we just need to make shore that only TO's from the Worimi
People do the works.

Thank You

Dave Feeney
Snr Aboriginal Cultural Officer
Karuah Indigenous Corporation
0421114853

From: Jake Brown
Sent: Wednesday, 21 October 2020 9:29 AM
Subject: Bobs Farm ACHMP

Hello All,

Regarding the ongoing discussion for the Bobs Farm ACHMP, the draft has been updated to reflect comments. This includes section 4 and section 6.

I will provide an update on the 28 October, 2020. If you have any comments it would be appreciated if you could reply before this date.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.

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From: Jake Brown
Sent: Wednesday, 21 October 2020 9:29 AM
Subject: Bobs Farm ACHMP
Attachments: TL 16032 TL Bobs Farm Sand Mine ACHMP Rev 7.pdf

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

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Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Andrew Smith <andrew@worimi.org.au>
Sent: Monday, 19 October 2020 5:46 PM
To: Jake Brown
Subject: RE: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

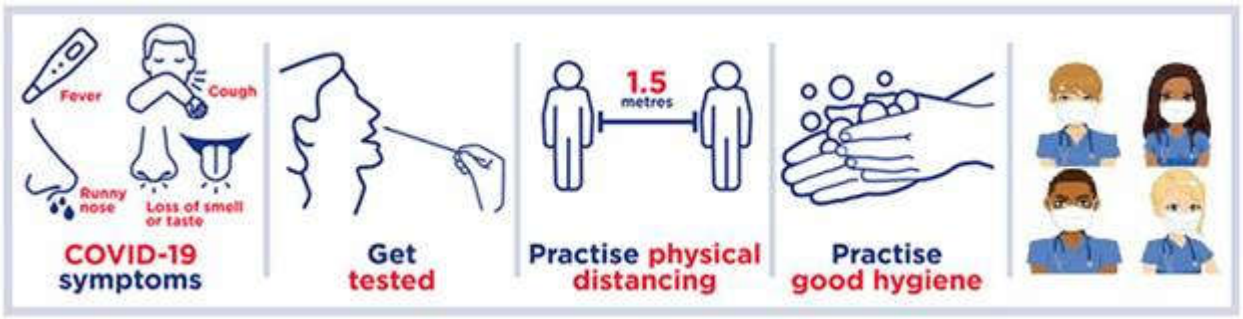
Thanks Jake,

Warmly appreciated.

Andrew Smith | Chief Executive Officer
Worimi Local Aboriginal Land Council
Street: 2163 Nelson Bay Rd, Williamtown NSW 2318
Postal: PO Box 56, Tanilba Bay NSW 2319
Ph | 02 4033 8800

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From: Jake Brown
Sent: Monday, 19 October 2020 9:39 AM
To: Andrew Smith
Subject: RE: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Hello Andrew,

I will accept you comment and add your email to future project updates.

Regards,

Jake

From: Andrew Smith <andrew@worimi.org.au>
Sent: Monday, 19 October 2020 9:28 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: RE: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Hi Jake,

Thanks for getting back.

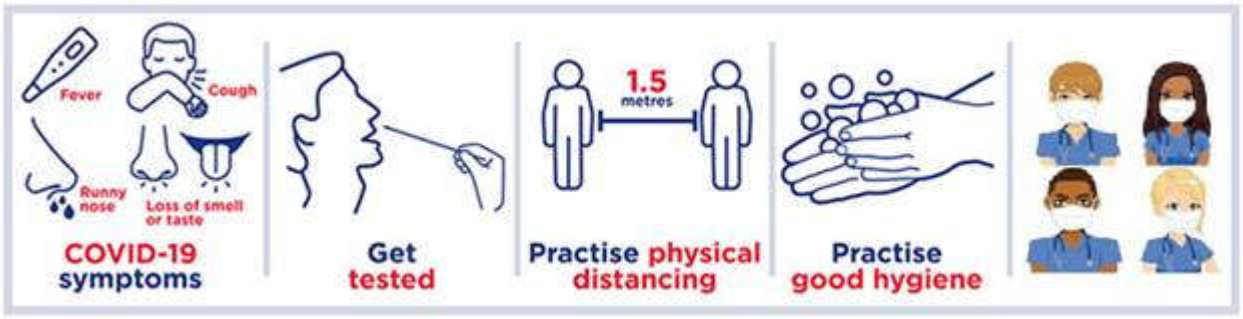
Is the any reasons why my email couldn't simply be added along with the sites@worimi.org.au
This is quite commonly the procedure undertaken by numerous other sites work proponents and archaeologists. They're both Worimi LALC contact emails (not an additional RAP) and if myself or the Sites work officers are absent, at least someone is reading and responding.

Warm Regards

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From: Jake Brown
Sent: Monday, 19 October 2020 8:04 AM
To: Andrew Smith
Subject: RE: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Hello Andrew,

Thank you for your correspondence. I am working part time at present, so sorry for not responding sooner. With the meeting link and meeting notes I sent them to the registered email for Worimi LALC with the project. This was done for all RAPs, if you wish to change your representative email I can change this for future correspondence. I did speak with Brendan about midday on the 13th about the meeting link, I don't believe I received a second call.

Regards,

Jake

From: Andrew Smith <andrew@worimi.org.au>
Sent: Thursday, 15 October 2020 2:50 PM
To: Jake Brown <Jake.Brown@advitech.com.au>; Leonard Anderson <lennie.anderson011@bigpond.com>; murr >> Anthony Anderson <murroomainc1@gmail.com>; Jamie Merrick <jamie.merrick@worimi.org.au>; Sites <Sites@worimi.org.au>
Subject: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Hi Jake,

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My apology also extends to Rebecca for singularly sharing the weight of concern and communication however, recognise that she is more than capable to do so, even though this should not have transpired.

That said; there is a good explanation for the LALC's primary participants being absence (as follows):

1. **Jamie Merrick**: Snr Sites Officer is currently absent on Annual Leave (2wks);

2. **Brendan Lilley**: Sites Officer was busy completing sites work in the morning and (at last minute) made attempts to acquire a suitable laptop and log in however; following several failed attempts also tried calling without success?

3. **Andrew Smith**: I DID NOT receive the invitation email 'Team link'? (which is disappointing).

I have since received your emailed **outcomes of the meeting albeit;** from Murrooma Inc.?

I am pleased to read that our (the RAPs) shared concerns have been heard and responded to however; I'm not happy at being excluded from the communicated email trails and 'IF' this were not the case, I would have been present on Tuesday. Therefore; I politely request that you please include me in your email communications.

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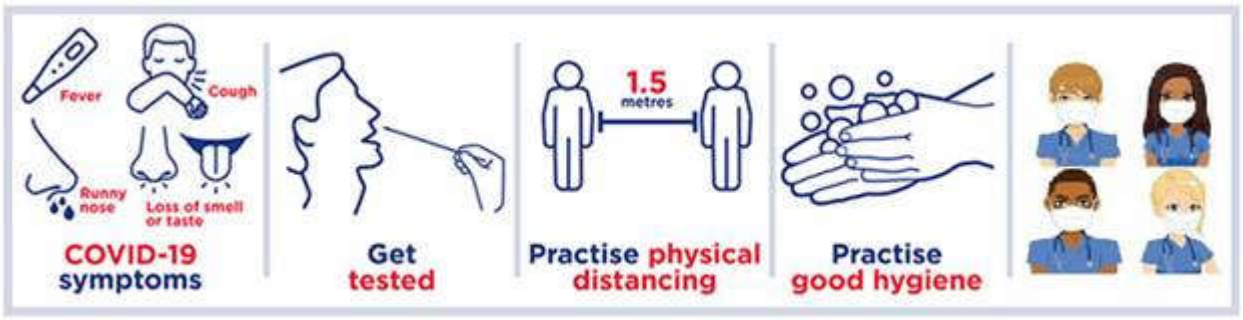
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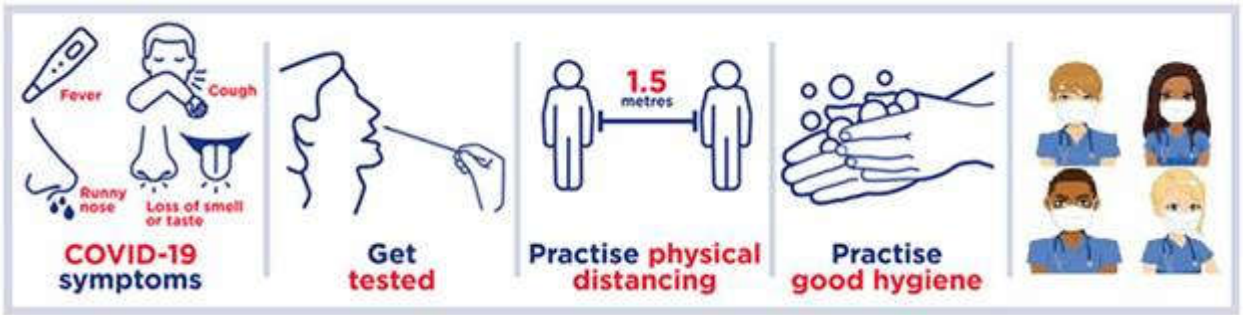
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2. **Brendan Lilley**: Sites Officer was busy completing sites work in the morning and (at last minute) made attempts to acquire a suitable laptop and log in however; following several failed attempts also tried calling without success?

3. **Andrew Smith**: I DID NOT receive the invitation email 'Team link'? (which is disappointing).

I have since received your emailed **outcomes of the meeting albeit;** from Murrooma Inc.?

I am pleased to read that our (the RAPs) shared concerns have been heard and responded to however; I'm not happy at being excluded from the communicated email trails and 'IF' this were not the case, I would have been present on Tuesday. Therefore; I politely request that you please include me in your email communications.

I look forward to catching to hearing back from you shortly and would expect that our paths will cross sometime in the very near future.

Warm Regards

Andrew Smith | Chief Executive Officer
Worimi Local Aboriginal Land Council
Street: 2163 Nelson Bay Rd, Williamtown NSW 2318
Postal: PO Box 56, Tanilba Bay NSW 2319
Ph | 02 4033 8800

"SHARING TOGETHER / WORKING TOGETHER / SUCCEEDING TOGETHER"
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If you are not the intended recipient, please notify me immediately and delete this email.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Jake Brown

From: Jake Brown
Sent: Monday, 19 October 2020 8:04 AM
To: Andrew Smith
Subject: RE: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Andrew,

Thank you for your correspondence. I am working part time at present, so sorry for not responding sooner. With the meeting link and meeting notes I sent them to the registered email for Worimi LALC with the project. This was done for all RAPs, if you wish to change your representative email I can change this for future correspondence. I did speak with Brendan about midday on the 13th about the meeting link, I don't believe I received a second call.

Regards,

Jake

From: Andrew Smith <andrew@worimi.org.au>
Sent: Thursday, 15 October 2020 2:50 PM
To: Jake Brown <Jake.Brown@advitech.com.au>; Leonard Anderson <lennie.anderson011@bigpond.com>; murr >> Anthony Anderson <murroomainc1@gmail.com>; Jamie Merrick <jamie.merrick@worimi.org.au>; Sites <Sites@worimi.org.au>
Subject: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Hi Jake,

I write to apologise for the Worimi LALC's absence in the Microsoft Teams Meeting held on Tuesday 13th Oct however; am thankful that Rebecca Anderson was able to be present.
My apology also extends to Rebecca for singularly sharing the weight of concern and communication however, recognise that she is more than capable to do so, even though this should not have transpired.

That said; there is a good explanation for the LALC's primary participants being absence (as follows):

1. **Jamie Merrick**: Snr Sites Officer is currently absent on Annual Leave (2wks);

2. **Brendan Lilley**: Sites Officer was busy completing sites work in the morning and (at last minute) made attempts to acquire a suitable laptop and log in however; following several failed attempts also tried calling without success?

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Jake Brown

From: Andrew Smith <andrew@worimi.org.au>
Sent: Thursday, 15 October 2020 2:50 PM
To: Jake Brown; Leonard Anderson; murr >> Anthony Anderson; Jamie Merrick; Sites
Subject: Bobs Farm Sand Mine ACHMP - Microsoft Teams Meeting?

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake,

I write to apologise for the Worimi LALC's absence in the Microsoft Teams Meeting held on Tuesday 13th Oct however; am thankful that Rebecca Anderson was able to be present.
My apology also extends to Rebecca for singularly sharing the weight of concern and communication however, recognise that she is more than capable to do so, even though this should not have transpired.

That said; there is a good explanation for the LALC's primary participants being absence (as follows):

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Jake Brown

From: Jake Brown
Sent: Wednesday, 14 October 2020 8:05 AM
Subject: Bobs Farm update

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello All,

Bobs Farm ACHMP meeting 13 October 2020

Attendees:
Bec Young

Notification of absence from meeting:
Candy Towers
Deidre Perkins

Technical issues with Teams meeting and later notification:
Leonard Anderson

Notes of key discussion points:

- Making spoil inspections consistent with other sand mining ACHMP in the Worimi area;
- Worimi representatives being the ones representing Worimi country;
- Payment for work will occur
- Discussion of knowledge of area compared to being a Traditional Owner;
- Inclusion of concerns of Worimi representatives being included in ACHMP about non-Worimi representing country. A brief comment from Worimi will be included to express concern; and
- Spoil inspection logistics – at this time it is noted on plans of a designated area for spoil. Details of storage inside area not known.
- Discussion of consultation guidelines and who can represent Worimi country.

It has been noted in discussion leading up to this email that the Worimi representatives involved in the project express grave concerns about non-Worimi interpretation of their heritage by other RAPs not representing the country of the project area. This has been made known to the archaeologist involved by email and conversation with Worimi LALC, Murrooma, Nur-Run-Gee and Karuah Indigenous Corporation.

Changes to the ACHMP will be undertaken and distributed once updated. Any consultation regarding the project will be logged in the consultation log and included in the ACHMP. As noted during the discussion a quote from the Worimi representatives will be included in the ACHMP to clearly articulate their position on representation of country.

As for determining who is able to speak for Country, as per the NSW consultation guidelines section 5.2 (p.15) it is only appropriate for Aboriginal people to determine who speaks for Country and it associated cultural heritage. The ACHMP or consultation for Bobs Farm in no way wishes to remove this ability from the RAPs and will respect the determination of the community.

A revised draft is forth coming.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

Jake Brown

From: Jake Brown
Sent: Wednesday, 14 October 2020 7:57 AM
To: Rod Bennison
Subject: Bobs Farm Meeting notes draft

Bobs Farm ACHMP meeting 13 October 2020

Attendees:
Bec Young

Notification of absence from meeting:
Candy Towers
Deidre Perkins

Technical issues with Teams meeting and later notification:
Leonard Anderson

Notes of key discussion points:

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Leonard Anderson <lennie.anderson011@bigpond.com>
Sent: Tuesday, 13 October 2020 5:32 PM
To: Jake Brown
Cc: Anthony Anderson; Sites
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake,

I tried to communicate with you and Bec, Brenden but to no avail, I will speak to them and find out what happened, sorry about that but my system is dropping out (E-mails /Face book etc) .It is a Telstra fault they have not fixed, Although I would also like to receive a copy of the minutes? meeting notes, if I could please.

Thanking You,

Lennie Anderson (Nur-Run-Gee Pty Ltd.

On 10/13/2020 12:33 PM, Jake Brown wrote:

Jake Brown has invited you to Bobs Farm ACHMP

Title: Bobs Farm ACHMP
Location: Online
When: Tuesday, October 13, 2020 1:00 PM – 1:30 PM

Organiser: Jake Brown

Description: _____
Join Microsoft Teams Meeting Learn more about Teams | Meeting options
_____
Hello RAPs, Some of the Worimi representatives have asked for a meeting to address some of their concerns. I intend to hold a meeting at 1pm Tuesday 13 October. The main concerns raised at this point are: * RAPs not from the Worimi speaking for country; and * Payment for time on site if the project is approved. If you are not able to attend, and I note that some parties have previously replied they would not be commenting on the project, I will be sending a brief summary of the discussion and conclusions. The meeting will be held through Microsoft teams which has the ability to connect via phone or internet. Regards, Jake Jake Brown Archaeologist jake.brown@advitech.com.au The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time. [cid:image001.jpg@01D6A06F.8E2483A0] 7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400 NOTICE: This email and any attachments is intended only for the use of the addressee named above. It may also be confidential and/or privileged. If you are not the intended recipient, any use, distribution, disclosure or copying is strictly prohibited. If you have received this email in error, please delete it and notify us immediately. _____ From: Jake Brown Sent: Wednesday, 7 October 2020 1:14 PM Subject: FW: Bobs Farm ACHMP Hello RAPs, In the past week I have received two comments expressing concerns about the proposed set up of the ACHMP. To address this, the proposed roster has been removed. For spoil inspection, all parties will be allowed to attended on the first working day of each month, though they will need to confirm two weeks prior that they will be attending. The voluntary aspect has also been

reworked, now this will include a maximum fee of two hours at $100 an hour for spoil inspection, inclusive of travel. I have attached the updated draft of the ACHMP which mainly features changes in Sections 4 and 6. I would appreciate any comments you have by the 21 October, 2020. I will provide updates as available. Regards, Jake From: Jake Brown Sent: Wednesday, 30 September 2020 10:33 AM To: Jake Brown <jake.brown@advitech.com.au> Subject: RE: Bobs Farm ACHMP To the Registered Aboriginal Parties, Thank you for your ongoing participation. My client and I have been consulting on the comments of the ACHMP for Bobs Farm and have prepared a revised draft of the document to address the concerns raised previously. Those include: * Time frame of spoil inspection; and * Long term storage of salvaged items. Worimi LALC in previous correspondence has agreed to store the salvaged items and a care and control agreement will be arranged for this to occur. Additional sections have been added to the ACHMP including a roster system for table 2, a section for spoil inspection (detailed below) and comments received during earlier comment phase. Spoil inspection Inspection of spoil material by RAPs can occur on the first working day of the month. The rostered RAPs (two per visit) should make a time a minimum of 14 days prior to inspection with the site supervisor which should be the 1st working day of the month. Contact with RAPs can be arranged directly using the details in Table 2 or be arranged through a heritage consultant if the operator wished to engage a third party to facilitate. Correct safety procedures should be followed and if RAPs do not have the correct PPE they will not be allowed to participate in fieldwork (refer to Section 4.8). Participation is a voluntary action (with no fees paid for participation unless agreed by the proponent). Additionally I am aware a few parties did not wish to provide a comment previously, for Table 2 where contact details are listed I will include all contact details I have at present unless otherwise specified. For any further consultation could you please provide any additional comments by the 14 October, 2020. After this date I will send an additional email to all RAPs with comments and any additional changes to the ACHMP prior to finalising the document. Regards, Jake Jake Brown Archaeologist jake.brown@advitech.com.au The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time. [cid:image001.jpg@01D6A06F.8E2483A0] 7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400 NOTICE: This email and any attachments is intended only for the use of the addressee named above. It may also be confidential and/or privileged. If you are not the intended recipient, any use, distribution, disclosure or copying is strictly prohibited. If you have received this email in error, please delete it and notify us immediately. From: Jake Brown Sent: Tuesday, 4 August 2020 10:29 AM Subject: FW: Bobs Farm ACHMP Dear RAPs, Thank you for those you have responded so far. Responses about the ACHMP so far include: * People not wishing to comment as not having been involved in fieldwork; * No specific comments about the ACHMP when responding to the test excavation report. The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP. Regards, Jake Jake Brown Archaeologist jake.brown@advitech.com.au The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.
[cid:image001.jpg@01D6A06F.8E2483A0] 7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400 NOTICE: This email and any attachments is intended only for the use of the addressee named above. It may also be confidential and/or privileged. If you are not the intended recipient, any use, distribution, disclosure or copying is strictly prohibited. If you have received this email in error, please delete it and notify us immediately. From: Jake Brown Sent: Thursday, 23 July 2020 8:01 AM Subject: Bobs Farm ACHMP Dear RAPs, As mentioned in my previous email on the 8 July 2020, I am writing to you regarding the ACHMP. I have received no comments so far from any of the registered parties. Regarding the test excavation report also sent on the 8 July 2020, I have also received no comments so far, the

review period for the report ends on the 5 August 2020. I will send an email to all RAPs regarding any comments I receive on the ACHMP for your consideration. I will email about the ACHMP again on the 4 August 2020. If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe. Regards, Jake Jake Brown Archaeologist jake.brown@advitech.com.au The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time. [cid:image001.jpg@01D6A06F.8E2483A0] 7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400 NOTICE: This email and any attachments is intended only for the use of the addressee named above. It may also be confidential and/or privileged. If you are not the intended recipient, any use, distribution, disclosure or copying is strictly prohibited. If you have received this email in error, please delete it and notify us immediately.

Attachments: about:blank

Comment:

Attendees:
'Ryan Johnson'
'Sites'
'lennie.anderson011 lennie.anderson011'
'lilly carroll'
'Anthony Anderson'
Worimi TOC
Rod Bennison

Related Link:

Jake Brown

From: Google Calendar <calendar-notification@google.com> on behalf of murroomainc1@gmail.com
Sent: Tuesday, 13 October 2020 12:48 PM
To: Jake Brown
Subject: Accepted: Bobs Farm ACHMP @ Tue Oct 13, 2020 1pm - 1:30pm (AEDT) (Jake Brown)
Attachments: invite.ics

murroomainc1@gmail.com has accepted this invitation.

Bobs Farm ACHMP

When Tue Oct 13, 2020 1pm – 1:30pm Eastern Australia Time - Sydney

Where Online (map)

Calendar Jake Brown

Who
- Jake Brown - organizer
- murroomainc1@gmail.com - creator, optional
- 'lennie.anderson011 lennie.anderson011' - optional
- 'lhwcs.lea@gmail.com' - optional
- 'worimiacs@gmail.com' - optional
- Worimi TOC - optional
- 'Cazadirect@live.com' - optional
- 'corroboreecorp@bigpond.com' - optional
- 'dedemaree3@hotmail.com' - optional
- 'lilly carroll' - optional
- 'indigenouskaruah@outlook.com' - optional
- 'Ryan Johnson' - optional
- 'Sites' - optional
- 'Widescope.group@live.com' - optional
- Rod Bennison - optional

Attachments image001.jpg

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Hello RAPs,

Some of the Worimi representatives have asked for a meeting to address some of their concerns. I intend to hold a meeting at 1pm Tuesday 13 October. The main concerns raised at this point are:

* RAPs not from the Worimi speaking for country; and
* Payment for time on site if the project is approved.

If you are not able to attend, and I note that some parties have previously replied they would not be commenting on the project, I will be sending a brief summary of the discussion and conclusions.

The meeting will be held through Microsoft teams which has the ability to connect via phone or internet.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: Jake Brown
Sent: Wednesday, 7 October 2020 1:14 PM
Subject: FW: Bobs Farm ACHMP

Hello RAPs,

In the past week I have received two comments expressing concerns about the proposed set up of the ACHMP. To address this, the proposed roster has been removed. For spoil inspection, all parties will be allowed to attended on the first working day of each month, though they will need to confirm two weeks prior that they will be attending. The voluntary aspect has also been reworked, now this will include a maximum fee of two hours at $100 an hour for spoil inspection, inclusive of travel.

I have attached the updated draft of the ACHMP which mainly features changes in Sections 4 and 6. I would appreciate any comments you have by the 21 October, 2020. I will provide updates as available.

Regards,

Jake

From: Jake Brown
Sent: Wednesday, 30 September 2020 10:33 AM
To: Jake Brown >
Subject: RE: Bobs Farm ACHMP

To the Registered Aboriginal Parties,

Thank you for your ongoing participation. My client and I have been consulting on the comments of the ACHMP for Bobs Farm and have prepared a revised draft of the document to address the concerns raised previously. Those include:

* Time frame of spoil inspection; and
* Long term storage of salvaged items.

Worimi LALC in previous correspondence has agreed to store the salvaged items and a care and control agreement will be arranged for this to occur. Additional sections have been added to the ACHMP including a roster system for table 2, a section for spoil inspection (detailed below) and comments received during earlier comment phase.

Spoil inspection

Inspection of spoil material by RAPs can occur on the first working day of the month. The rostered RAPs (two per visit) should make a time a minimum of 14 days prior to inspection with the site supervisor which should be the 1st working day of the month. Contact with RAPs can be arranged directly using the details in Table 2 or be arranged through a heritage consultant if the operator wished to engage a third party to facilitate. Correct safety procedures should be followed and if RAPs do not have the correct PPE they will not be allowed to participate in fieldwork (refer to Section 4.8). Participation is a voluntary action (with no fees paid for participation unless agreed by the proponent).

Additionally I am aware a few parties did not wish to provide a comment previously, for Table 2 where contact details are listed I will include all contact details I have at present unless otherwise specified.

For any further consultation could you please provide any additional comments by the 14 October, 2020. After this date I will send an additional email to all RAPs with comments and any additional changes to the ACHMP prior to finalising the document.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: Jake Brown
Sent: Tuesday, 4 August 2020 10:29 AM
Subject: FW: Bobs Farm ACHMP

Dear RAPs,

Thank you for those you have responded so far. Responses about the ACHMP so far include:

* People not wishing to comment as not having been involved in fieldwork;
* No specific comments about the ACHMP when responding to the test excavation report.

The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP.

Regards,

Jake

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From: Jake Brown
Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

Dear RAPs,

As mentioned in my previous email on the 8 July 2020, I am writing to you regarding the ACHMP. I have received no comments so far from any

Invitation from Google Calendar

You are receiving this courtesy email at the account jake.brown@advitech.com.au because you are an attendee of this event.

To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at https://www.google.com/calendar/ and control your notification settings for your entire calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Jake Brown

Subject:	Bobs Farm ACHMP
Location:	Online
Start:	Tue 13/10/2020 1:00 PM
End:	Tue 13/10/2020 1:30 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Jake Brown
Optional Attendees:	'Ryan Johnson'; 'Sites'; 'lennie.anderson011 lennie.anderson011'; 'lilly carroll'; 'Anthony Anderson'; 'worimitoc@hotmail.com'; 'Widescope.group@live.com'; 'Cazadirect@live.com'; 'dedemaree3@hotmail.com'; 'worimiacs@gmail.com'; 'corroboreecorp@bigpond.com'; 'indigenouskaruah@outlook.com'; 'lhwcs.lea@gmail.com'; Worimi TOC; Rod Bennison
Categories:	Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

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The meeting will be held through Microsoft teams which has the ability to connect via phone or internet.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Tuesday, 13 October 2020 12:09 PM
To: Anthony Anderson
Subject: RE: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Bec,

The link is the join Microsoft teams meeting below.

Regards,

Jake

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From: Jake Brown
Sent: Tuesday, 13 October 2020 7:57 AM
To: Worimi TOC
Subject: RE: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Candy,

Thanks for letting me know. I will take notes and provide a summary of the meeting to all RAPs.

Regards,

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From: Worimi TOC <worimitoc@hotmail.com>
Sent: Tuesday, 13 October 2020 1:54 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm ACHMP

Hi Jake,

Could you please take minutes of the meeting as I can not attend.
Also could you please provide my apologies.

thanks,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

ph: 0412 475 362

e: worimitoc@hotmail.com

WORIMI TOIC

Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

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Jake Brown

From: Worimi TOC <worimitoc@hotmail.com>
Sent: Tuesday, 13 October 2020 1:54 AM
To: Jake Brown
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake,

Could you please take minutes of the meeting as I can not attend.
Also could you please provide my apologies.

thanks,
Candy

Candy Towers
Worimi Custodian
Worimi Traditional Owners Indigenous Corporation
ph: 0412 475 362
e: worimitoc@hotmail.com

WORIMI TOIC

Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

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Is karuah Indigenous Corporation apart of the Rap's on this job, as I keep getting all the information
About Rap's.
Plus I am a Worimi person.

Thank you

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Snr Aboriginal Cultural Officer
Karuah Indigenous Corporation
0421114853

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Where: Online

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Jake Brown

From: Google Calendar <calendar-notification@google.com> on behalf of murroomainc1@gmail.com
Sent: Monday, 12 October 2020 11:13 AM
To: Jake Brown
Subject: Accepted: Bobs Farm ACHMP @ Tue Oct 13, 2020 1pm - 1:30pm (AEDT) (Jake Brown)
Attachments: invite.ics

murroomainc1@gmail.com has accepted this invitation.

Bobs Farm ACHMP

When Tue Oct 13, 2020 1pm – 1:30pm Eastern Australia Time - Sydney

Where Online (map)

Calendar Jake Brown

Who
- Jake Brown - organizer
- murroomainc1@gmail.com - creator, optional
- 'lennie.anderson011 lennie.anderson011' - optional
- 'lhwcs.lea@gmail.com' - optional
- 'worimiacs@gmail.com' - optional
- 'worimitoc@hotmail.com' - optional
- 'Cazadirect@live.com' - optional
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- 'Ryan Johnson' - optional
- 'Sites' - optional
- 'Widescope.group@live.com' - optional

Attachments image001.jpg

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[cid:image001.jpg@01D6A06F.8E2483A0]
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_____

From: Jake Brown
Sent: Wednesday, 7 October 2020 1:14 PM
Subject: FW: Bobs Farm ACHMP

Hello RAPs,

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Sent: Wednesday, 30 September 2020 10:33 AM
To: Jake Brown >
Subject: RE: Bobs Farm ACHMP

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Sent: Tuesday, 4 August 2020 10:29 AM
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Invitation from Google Calendar

You are receiving this courtesy email at the account jake.brown@advitech.com.au because you are an attendee of this event.

To stop receiving future updates for this event, decline this event. Alternatively you can sign up for a Google account at https://www.google.com/calendar/ and control your notification settings for your entire calendar.

Forwarding this invitation could allow any recipient to send a response to the organizer and be added to the guest list, or invite others regardless of their own invitation status, or to modify your RSVP. Learn More.

Jake Brown

From: David Feeney <indigenouskaruah@outlook.com>
Sent: Monday, 12 October 2020 11:08 AM
To: Jake Brown
Subject: RE: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake;

Is karuah Indigenous Corporation apart of the Rap's on this job, as I keep getting all the information
About Rap's.
Plus I am a Worimi person.

Thank you

Dave Feeney
Snr Aboriginal Cultural Officer
Karuah Indigenous Corporation
0421114853

-----Original Appointment-----
From: Jake Brown
Sent: Monday, 12 October 2020 8:42 AM
Cc: 'Ryan Johnson'; 'Sites'; 'lennie.anderson011 lennie.anderson011'; 'lilly carroll'; 'Anthony Anderson'; 'worimitoc@hotmail.com'; 'Widescope.group@live.com'; 'Cazadirect@live.com'; 'dedemaree3@hotmail.com'; 'worimiacs@gmail.com'; 'corroboreecorp@bigpond.com'; 'indigenouskaruah@outlook.com'; 'lhwcs.lea@gmail.com'
Subject: Bobs Farm ACHMP
When: Tuesday, 13 October 2020 1:00 PM-1:30 PM (UTC+10:00) Canberra, Melbourne, Sydney.
Where: Online

Join Microsoft Teams Meeting

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Hello RAPs,

Some of the Worimi representatives have asked for a meeting to address some of their concerns. I intend to hold a meeting at 1pm Tuesday 13 October. The main concerns raised at this point are:

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Jake Brown

From: Deidre Perkins <dedemaree3@hotmail.com>
Sent: Monday, 12 October 2020 10:16 AM
To: Jake Brown
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Sorry Jake I will be unable to attend.
Sincerely Deidre

Get Outlook for Android

From: Jake Brown
Sent: Monday, October 12, 2020 8:41:50 AM
Cc: 'Ryan Johnson' ; 'Sites' ; 'lennie.anderson011 lennie.anderson011' ; 'lilly carroll' ; 'Anthony Anderson' ; 'worimitoc@hotmail.com' <'worimitoc@hotmail.com'>; 'Widescope.group@live.com' <'Widescope.group@live.com'>; 'Cazadirect@live.com' <'Cazadirect@live.com'>; 'dedemaree3@hotmail.com' <'dedemaree3@hotmail.com'>; 'worimiacs@gmail.com' <'worimiacs@gmail.com'>; 'corroboreecorp@bigpond.com' <'corroboreecorp@bigpond.com'>; 'indigenouskaruah@outlook.com' <'indigenouskaruah@outlook.com'>; 'lhwcs.lea@gmail.com' <'lhwcs.lea@gmail.com'>
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Learn more about Teams | Meeting options

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Jake Brown

From: Jake Brown
Sent: Monday, 12 October 2020 8:11 AM
To: Anthony Anderson
Subject: RE: Sand Mine ACHMP.

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Bec,

I will send out an email soon for the meeting. The proponent won't be at the meeting but I will keep him up to date and he is aware of the current discussions. I invite all RAPs, I hope this will allow the Worimi to express your concerns to all parties involved.

Regards,

Jake

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Friday, 9 October 2020 3:23 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Sand Mine ACHMP.

Hi Jake
Will all the RAP groups and the proponent be connecting for the meeting? Just so we can discuss in regards to the future of the sand mine and further employment as we go.
I would be available Tues after lunch if that helps
Thanks Bec

On Thursday, October 8, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello Everyone,
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> I appreciate the feedback I have received from Bec and Lennie and I am available for a meeting next Tuesday 13/10/20, for efficiency I would suggest it is through Microsoft teams which also has a phone in capability. I am open to times between 8:30am - 3pm.
>
> I understand that other registered parties are from outside the area and do not represent your country.
>
> Please let me know a suitable time, I look forward to meeting with you all to resolve this issue.
>
> Regards,
>
> Jake
>
> -----Original Message-----
> From: Leonard Anderson <lennie.anderson011@bigpond.com>
> Sent: Wednesday, 7 October 2020 6:12 PM
> To: Jake Brown <Jake.Brown@advitech.com.au>
> Cc: murr >> Anthony Anderson <murroomainc1@gmail.com>; Andrew Smith <andrew@worimi.org.au>; jamie Merrick <jamie.merrick@worimi.org.au>; Sites <Sites@worimi.org.au>
> Subject: SAnd Mine.
>
> Hi Jake,

Please accept this as the third (3) letter of complaint.What price do you put on a Persons Knowledge? to categorically state we are to accept some of those ludicrous scenarios is archaic to say the least. I for one will go against any report application or Management Plan that is put to any proponent, Statutory Body or person that is not ratified by the Recognised and Registered Traditional Owners or in our Case Worimi LALC representatives also, how can you quantify or qualify any relevant information that is not authenticated. To ask other RAPS to attend after you have already taken knowledge from Worimi LALC, Murrooma Inc, Karuah Indigenous Corp and Nur-Run-Gee Pty Ltd (by this setting a precedence) is a mis-informed mis-judgement, a slap in the Face! Do you realise what will happen if someone from out of this area, and or, unrecognised attempts to talk on our Country? Do you realise out of the 4 factions of investigation you are saying we are required for one,? who under what recommendation made these decisions, Our Sites Officers offered further investigations of sites within the area (they were ignored) I know that there is Cultural Material there, now you know,will you take responsibility of Knowingly/Willingfully destroying/Harming an Aboriginal site? because if it does occur I will assure all (under the ATSI Act) I will take it to the Federal/ Commonwealth level of jurisdiction. I'm glad to see this 'roster system, is being reworked, I do agree if it has to be that format, then the roster system should only be between those four (4) recognised groups as nominated. To be brief, these Four(4) are the only ones that should attend (onsite) for all and any facets of this Management Plan and any Cultural Methodologies thereafter.

To settle all this, a meeting should be called between the concerned parties before anymore information is given, or taken in as such, halting any further indignation and unwarranted community upheavals.

Yours Sincerely

Leonard James Anderson OAM

Worimi Custodian of Lands and Knowledge

Senior Figure in Ceremonies

Indigenous Archaeologist

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

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Worimi Custodian of Lands and Knowledge

Senior Figure in Ceremonies

Indigenous Archaeologist

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Andrew Smith <andrew@worimi.org.au>
Sent: Thursday, 8 October 2020 12:48 PM
To: Jake Brown; Leonard Anderson; murr >> Anthony Anderson; Jamie Merrick; Sites
Subject: RE: Sand Mine ACHMP.

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Good Morning,

Thank you Jake for your prompt response to Len's email.
I confirm that we (the Worimi LALC) support the position communicated by Len and note that we; collectively in partnership with 'locally recognised and accepted' RAPS, have been working determinedly to avoid the mess of Aboriginal Cultural consultation, that has (and continues to) so easily creeo its way into ours and other community cultural areas.

Also; I take this opportunity to communicate a note of concern in relation to the ACHMP and ongoing engagement? It was raised with me that ongoing RAP participation (i.e. monthly inspections) are expected to take place on a 'FEE FREE' basis?
- Can you confirm if this is the case? If it is; might I suggest that it also be discussed and resolved ASAP.

The valuable contribution of RAPS; their legislated participation, sharing of knowledge, experience and expertise SHOULD NOT be devalued and underestimated.
Sand Extraction is a lucrative industry and to assume a 'cost saving' on the expense budget line (which is minimal in comparison to other consultations) - from the Aboriginal Community!... is an insult.

A WLALC Sites Officer will be present for the Microsoft Teams discussion.

Warm Regards

Andrew Smith | Chief Executive Officer
Worimi Local Aboriginal Land Council
Street: 2163 Nelson Bay Rd, Williamtown NSW 2318
Postal: PO Box 56, Tanilba Bay NSW 2319
Ph | 02 4033 8800

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If you are not the intended recipient, please notify me immediately and delete this email.

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

-----Original Message-----
From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Thursday, 8 October 2020 9:10 AM
To: Leonard Anderson <lennie.anderson011@bigpond.com>; murr >> Anthony Anderson <murroomainc1@gmail.com>; Andrew Smith <andrew@worimi.org.au>; Jamie Merrick <jamie.merrick@worimi.org.au>; Sites <Sites@worimi.org.au>
Subject: RE: Sand Mine ACHMP.

Hello Everyone,

I appreciate the feedback I have received from Bec and Lennie and I am available for a meeting next Tuesday 13/10/20, for efficiency I would suggest it is through Microsoft teams which also has a phone in capability. I am open to times between 8:30am - 3pm.

I understand that other registered parties are from outside the area and do not represent your country.

Please let me know a suitable time, I look forward to meeting with you all to resolve this issue.

Regards,

Jake

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Sent: Wednesday, 7 October 2020 6:12 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Cc: murr >> Anthony Anderson <murroomainc1@gmail.com>; Andrew Smith <andrew@worimi.org.au>; jamie Merrick <jamie.merrick@worimi.org.au>; Sites <Sites@worimi.org.au>
Subject: SAnd Mine.

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 7 October 2020 1:57 PM
To: Jake Brown
Cc: Lennie Anderson; Sites; David Feeney
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake
We could possibly have a sit down meeting to try and sort the CHMP before it goes to the proponent, hopefully preventing any conflict as we would then have a chance to discuss with the other RAP's about who should speak for county.
I just don't understand why the proponent would select the 4 groups to complete the test excavation work but then invite all RAP's to the future works, are you able to explain this please?

Thanks
Bec

On Wednesday, October 7, 2020, Anthony Anderson <murroomainc1@gmail.com> wrote:

> Hi Jake -
> Thank you for discussing this with the proponent and making additional changes.
>
> I'm still very concerned that all RAP groups will be invited as only certain groups in the area are able to speak for country- is the proponent aware of the guidelines that we as a community determine who speaks for country as I believe that this will only cause conflict if all groups show up e.g some travelling from Canberra and Sydney with no connection to country.
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> As a registered and recognised Traditional Owner of the Worimi area I'm sure that there is a more manageable way this can be worked out as this will only set us up to fail.
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> I will be contacting the proponent and Heritage to discuss this whole project as we still disagree with what is happening.
>
> Thanks
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I have attached the updated draft of the ACHMP which mainly features changes in Sections 4 and 6. I would appreciate any comments you have by the 21 October, 2020. I will provide updates as available.

Regards,

Jake

From: Jake Brown
Sent: Wednesday, 30 September 2020 10:33 AM
To: Jake Brown <jake.brown@advitech.com.au>
Subject: RE: Bobs Farm ACHMP

To the Registered Aboriginal Parties,

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- Time frame of spoil inspection; and
- Long term storage of salvaged items.

Worimi LALC in previous correspondence has agreed to store the salvaged items and a care and control agreement will be arranged for this to occur. Additional sections have been added to the ACHMP including a roster system for table 2, a section for spoil inspection (detailed below) and comments received during earlier comment phase.

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Additionally I am aware a few parties did not wish to provide a comment previously, for Table 2 where contact details are listed I will include all contact details I have at present unless otherwise specified.

For any further consultation could you please provide any additional comments by the **14 October, 2020**. After this date I will send an additional email to all RAPs with comments and any additional changes to the ACHMP prior to finalising the document.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: Jake Brown
Sent: Tuesday, 4 August 2020 10:29 AM
Subject: FW: Bobs Farm ACHMP

Dear RAPs,

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- People not wishing to comment as not having been involved in fieldwork;
- No specific comments about the ACHMP when responding to the test excavation report.

The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP.

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Sent: Thursday, 23 July 2020 8:01 AM
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From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 7 October 2020 1:41 PM
To: Jake Brown
Cc: Lennie Anderson; Sites
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

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From: Jake Brown
Sent: Wednesday, 7 October 2020 1:14 PM
Subject: FW: Bobs Farm ACHMP
Attachments: TL 16032 TL Bobs Farm Sand Mine ACHMP Rev 5.pdf

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

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Jake Brown Archaeologist

jake.brown@advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

From: Jake Brown
Sent: Tuesday, 4 August 2020 10:29 AM
Subject: FW: Bobs Farm ACHMP

Dear RAPs,

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- People not wishing to comment as not having been involved in fieldwork;
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Regards,

Jake

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Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

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Regards,

Jake

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Tuesday, 6 October 2020 5:24 PM
To: Jake Brown
Cc: Sites; Lennie Anderson; David Feeney
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake- after reading the updated/revised draft there are few things that I would like to discuss;
- I agree with the storage at Worimi LALC and the timeframe of the spoil/screen inspections, being monthly following all PPE requirements and contact with mine manager- however strongly disagree with all RAP groups being involved and on a voluntary agreement.
We currently have CHMP agreements in place with all other sand mining companies within the area that include the knowledge holders (which are representatives from the groups who have previously been engaged on this project) coming onsite in a paid capacity to use their knowledge and determine our Worimi Cultural material and collect our non-renewable resources which have been destroyed.

Murrooma strongly disagree with using other RAPS (as outlined in your table) who do not speak for country and cannot interpret our local heritage.

You are well aware due to previous discussions,emails and report responses that Murrooma are not happy with this project and the process as to which has been used to get to this CHMP and believe that by even asking us to possibly come along with people from out of our area and work together for free in our own community to collect our only tangible connections to our ancestors is a complete insult.
Please call me to discuss further or I'm happy to speak with the proponent or Heritage about this as once again we strongly disagree as we have with the minimal testing and the project process in general.

Thanks
Bec Young

On Wed, Sep 30, 2020 at 10:33 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> To the Registered Aboriginal Parties,
>
> Thank you for your ongoing participation. My client and I have been consulting on the comments of the ACHMP for Bobs Farm and have prepared a revised draft of the document to address the concerns raised previously. Those include:
>
> - Time frame of spoil inspection; and
> - Long term storage of salvaged items.
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> Worimi LALC in previous correspondence has agreed to store the salvaged items and a care and control agreement will be arranged for this to occur. Additional sections have been added to the ACHMP including a roster system for table 2, a section for spoil inspection (detailed below) and comments received during earlier comment phase.
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> Spoil inspection

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-

Additionally I am aware a few parties did not wish to provide a comment previously, for Table 2 where contact details are listed I will include all contact details I have at present unless otherwise specified.

-

For any further consultation could you please provide any additional comments by the **14 October, 2020**. After this date I will send an additional email to all RAPs with comments and any additional changes to the ACHMP prior to finalising the document.

-

Regards,

-

Jake

-

Jake Brown Archaeologist

jake.brown@advitech.com.au

-

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Regards,

Jake

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Jake

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-

--
Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Leonard Anderson <lennie.anderson011@bigpond.com>
Sent: Wednesday, 30 September 2020 12:50 PM
To: Jake Brown
Subject: Re: Bobs Farm ACHMP

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Jake,

Firstly Nur-Run-Gee Pty Ltd did reply previuosly. Secondly We disagree with this Roster System in such a sensitive area! Especially when groups with no local Knowledge can be engaged, The Only three groups that should go onsite are Worimi LALC, Murooma Inc and Nur-Run-Gee Pty Ltd, they are the only reckognised groups with the knowledge to authenticate any onsite appraisal.If any of the nominated 3 Groups are not an intricate part of the assessment I will file our complaint with NTS, State LALC and the DPI upon viewing the final ACHMP.

Lennie Anderson OAM

Nur-Run-Gee Pty Ltd (Director)

Worimi Traditional Custodian(Keeper of the Stories)

Indigenous Archaeologist (Original Claimant on Behalf of Worimi People for this Area)

On 9/30/2020 10:32 AM, Jake Brown wrote:

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>
> Thank you for your ongoing participation. My client and I have been consulting on the comments of the ACHMP for Bobs Farm and have prepared a revised draft of the document to address the concerns raised previously. Those include:
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Regards,

Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 30 September 2020 10:33 AM
To: 'Jamie Merrick'
Subject: RE: Storage
Attachments: Bobs Farm Sand Mine Care and Control Agreement.pdf

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

Hello Jamie,

I apologise in the delay. You should have just received the changes to the ACHMP for additional comment. If Worimi LALC is still happy to go ahead with the care and control agreement for any salvaged items from Bobs Farm we will need to complete the relevant form. I have included a draft agreement which will require Worimi LALCs details to be completed.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Thursday, 6 August 2020 9:17 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Cc: murroomainc1@gmail.com; lennie.anderson011@bigpond.com
Subject: Storage

Hi Jake
I have not spoken to other raps yet but I don't they will have a problem with artefacts being stored at Worimi LALC

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council

P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Jake Brown

From: Jake Brown
Sent: Wednesday, 30 September 2020 10:33 AM
To: Jake Brown
Subject: RE: Bobs Farm ACHMP
Attachments: TL 16032 TL Bobs Farm Sand Mine ACHMP Rev 4.pdf

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\4_Corresp-Out

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Jake Brown

From: tn.miller@southernphone.com.au
Sent: Tuesday, 25 August 2020 4:09 PM
To: Damien Grace; david@eastmaitlandanglican.org; deborah.swan@rms.nsw.gov.au; Dragomir Garbov; Elizabeth McDonald; Fenella Atkinson; FLETCHER B; geordie.oakes@aecom.com; Glenn Swan; HAGAN L; Jake Brown; jenni@apexarchaeology.com.au; jo.miller@cessnock.nsw.gov.au; Joel Deacon; Josh Madden; Katie Stride; Kim.Collings@jacobs.com; kvirgin@umwelt.com.au; Leanne.Harris@maitland.nsw.gov.au; lin@stevensgroup.com.au; Liz Wyatt; M1RT; Madeline Harding; Mary Dallas; Mary-Jean Sutton; Mary-Jean Sutton; Matthew Kelleher; mdisspain@niche-eh.com; Michael O'Sullivan; Muswellbrook Bypass
Subject: Lower Hunter Wonnarua Cultural Services

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

Hi Everyone,

Apologies if I have mistakenly included you in this email.

This email is to advise that I will be carrying on Tom's (Dad's) Legacy and continuing with Culture and Heritage. If all further correspondence can be sent to:

LHWCS
Lea-Anne Miller
712 Maitland Street
Kurri Kurri NSW 2327
M. 0472698659
E. lhwcs.lea@gmail.com

It may take me a while to get on top of things after Dad's passing but please keep me up to date with any upcoming Culture and Heritage Assessments.

Kind Regards
Lea-Anne Miller

Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Thursday, 6 August 2020 9:17 AM
To: Jake Brown
Cc: murroomainc1@gmail.com; lennie.anderson011@bigpond.com
Subject: Storage

Categories: Filed: F:\16032 TL BobsFarmSandMine Heritage\Env\3_Corresp-In

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Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 5 August 2020 9:16 AM
To: Jake Brown
Subject: Bobs Farm

Categories: Filed

Hi Jake
Worimi Local Aboriginal Land Council agree with the ACHMP but we would like to be there for any tree clearing and any ground disturbance and monthly or sooner inspections of stockpiles and the screened material

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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Think before you print.

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Tuesday, 4 August 2020 2:07 PM
To: Jake Brown
Subject: Re: FW: Bobs Farm ACHMP
Attachments: Bobs Farm Excavation Response.docx; Bobs Farm Sand Mine ACHMP.docx

Categories: Filed

Hi Jake-
Please find attached the response to the test excavation report and ACHMP.

Thanks Bec

On Tue, Aug 4, 2020 at 10:28 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

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> The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP.
>
> -
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
>
> The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.

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-

-

-

From: Jake Brown
Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

-

Dear RAPs,

-

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-

I will send an email to all RAPs regarding any comments I receive on the ACHMP for your consideration. I will email about the ACHMP again on the 4 August 2020. If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe.

-

Regards,

-

Jake

-

Jake Brown Archaeologist

jake.brown@advitech.com.au

-

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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Tuesday, 4 August 2020 10:07 AM
To: 'Jamie Merrick'
Subject: RE: Bobs Farm

Categories: Filed

Hello Jamie,

Thank you for your response. Your concern is noted. As discussed on site and in the report the locations were approved by BCD for the test excavation. The wording of the methodology and the recorded registered location from the original survey did not allow for onsite modification of the test excavation.

Additionally, do you have any comments on the ACHMP?

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Tuesday, 4 August 2020 8:07 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Bobs Farm

Hi Jake
In response to your test excavation draft report for Bobs Farm
Worimi Local Aboriginal Land Council agree with recommendations but Worimi LALC are concerned that the raps were unable to relocate the test pits to different areas

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council

P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

The Worimi Local Aboriginal Land Council respects the privacy of individuals and strives to comply with all areas of the Privacy Act. The contents of this email are intended for the purpose of the person or persons named in either the "To" or "CC" boxes of the email. Any person not named in these boxes in receipt of this email should immediately delete this email and advise the sender accordingly.





Jake Brown

From: Jake Brown
Sent: Tuesday, 4 August 2020 10:29 AM
Subject: FW: Bobs Farm ACHMP

Categories: Filed

Dear RAPs,

Thank you for those you have responded so far. Responses about the ACHMP so far include:

- People not wishing to comment as not having been involved in fieldwork;
- No specific comments about the ACHMP when responding to the test excavation report.

The review period for the excavation report is due to end tomorrow, 5 August. As for the ACHMP, if no specific comments are forthcoming by the 5 August and people wishing to comment are satisfied with the document, I will seek to have it validated by Heritage NSW once finalised with my client. Unless specified the provided contact details for the registered parties will be included in the ACHMP.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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From: Jake Brown
Sent: Thursday, 23 July 2020 8:01 AM
Subject: Bobs Farm ACHMP

Dear RAPs,

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I will send an email to all RAPs regarding any comments I receive on the ACHMP for your consideration. I will email about the ACHMP again on the 4 August 2020. If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe.

Regards,

Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Tuesday, 4 August 2020 8:07 AM
To: Jake Brown
Subject: Bobs Farm

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Filed

Hi Jake
In response to your test excavation draft report for Bobs Farm
Worimi Local Aboriginal Land Council agree with recommendations but Worimi LALC are concerned that the raps were unable to relocate the test pits to different areas

Jamie Merrick
Snr Site Officer
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Jake Brown

From: Jake Brown
Sent: Monday, 27 July 2020 7:49 AM
To: Deidre Perkins
Subject: RE: Bobs Farm ACHMP

Categories: Filed

Thank you for letting me know Deidre,

Regards,

Jake

From: Deidre Perkins <dedemaree3@hotmail.com>
Sent: Friday, 24 July 2020 10:17 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm ACHMP

Hi jake, I cant comment because wasnt on the job
Thanks Deidre

Get Outlook for Android

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Thursday, July 23, 2020 8:00:53 AM
Subject: Bobs Farm ACHMP

Dear RAPs,

As mentioned in my previous email on the 8 July 2020, I am writing to you regarding the ACHMP. I have received no comments so far from any of the registered parties. Regarding the test excavation report also sent on the 8 July 2020, I have also received no comments so far, the review period for the report ends on the 5 August 2020.

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Regards,

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Monday, 27 July 2020 7:49 AM
To: Anthony Anderson
Subject: RE: Bobs Farm ACHMP

Categories: Filed

Hello Bec,

Your previous correspondence is included in the correspondence log, however I have not included any comments in the report at this stage. A summarised version will appear in the report body (section 3) with the full response in the Appendix I.

Regards,

Jake

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Friday, 24 July 2020 8:58 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm ACHMP

Hi Jake,
I was just wondering if you had included my previous correspondence in regards to the test excavation in this draft report?
Please let me know if you have so I can construct a response for the report.
Thanks Bec

On Thursday, July 23, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

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>
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> Jake
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> jake.brown@advitech.com.au
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Regards,

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jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 8 July 2020 10:53 AM
To: Jake Brown
Subject: Bobs Farm Consultation and Review of Documents
Attachments: TL 16032 TL Bobs Farm Sand Mine ACHMP Rev 2.pdf; 16032 TL Bobs Farm Excavation Archaeological Report Rev2.pdf

Categories: Filed

Hello RAPs,

Thank you for your continued support with the Bobs Farm sand mine project. Following the test excavation in May a draft report is now available for review. A 28 day review period has been allocated which would end on the 5 August, 2020. A hard copy of the report will be sent out. I have also attached a copy of the report in this email. This contains all the appendices.

Regarding the ACHMP, please find this included in the link as well. If a initial comment could be provided within two weeks, I will then proceed on the 23 July to provide RAPs with a consultation email with any feedback for additional consideration over the following two weeks to the 5 August, 2020.

If at any time you wish to consult about the report or ACHMP please feel free to contact me. My typical work hours at present are Monday to Thursday 7:30 to 15:30. I will endeavour to respond in a prompt timeframe.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Thursday, 28 May 2020 10:12 AM
To: Jake Brown
Subject: Re: Invoice details
Attachments: Tattersall Lander- 476.doc

Categories: Filed

Hi Jake,

Hope your well,
Please find attached Invoice for Test Excavations - Bobs Farm #476.
Please forward to proponent.

Thanks
Bec

On Wed, May 20, 2020 at 11:44 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello Bec,
>
> -
>
> The invoice will be paid by Tattersall Lander however you can send it to me and I will pass it along if you wish.
>
> -
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
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If you have received this email in error, please delete it and notify us immediately.

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 20 May 2020 11:39 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Invoice details

Hi Jake,

Just wanted to confirm if I'm sending Murrooma's invoice to you or to the proponent?

Confirming this invoice info;

Tattersall Lander

Bob Lander, Director

Email: bob@tatland.com.au, Telephone: 02 4987 1500 2 Bourke Street Raymond Terrace 2324

PO Box 580 Raymond Terrace 2324

Thanks

Bec

--

Anthony Anderson

CEO Mur-roo-ma Incorporated

Justice of The Peace

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

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Confirming this invoice info;
Tattersall Lander
Bob Lander, Director
Email: bob@tatland.com.au, Telephone: 02 4987 1500 2 Bourke Street Raymond Terrace 2324
PO Box 580 Raymond Terrace 2324

Thanks
Bec

--
Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 13 May 2020 2:48 PM
To: Jake Brown
Cc: Sites
Subject: Re: Bobs Farm Test Excavation

Categories: Filed

Hi Jake,
I just wanted to write to get a bit more clarification on the test pits we completed last week and the permit wording .
What I'm a bit worried about was that there was no room in the permit to move the pits once we went out onsite to look at the areas that were selected as I do not think this gave us a very good cover/overview of what is potentially onsite. I know you had said they were placed from the 2014 walk over survey but I would have thought that a pit would have been placed mainly in the areas that were on top of the ridge line (Identified in the 2020 walkover) instead of in the lower lying disturbed areas.
As your are aware there is a shell midden/scatter on the top of the ridge line which is consistent to where our people would have accessed however we did not do any testing of this area.
I understand we agreed with the methodology sent out via email which highlighted the areas to be tested however after being onsite and seeing this and all groups asking onsite why these were selected and if there was any space in the permit to try somewhere else - in areas we believe our people would have used not just shell scatter. I'm just a bit concerned that development would go ahead with no findings from the 5 test pits (across a lot of area) and it not really be a true reflection of what may potentially be in this area.

Moving forward should I just wait for the report and respond with a cultural assessment of the area? We haven't really worked under a permit that specifically states that we cannot move or test in areas that would gain more information- there's usually a bit of flexibility in this for the RAP groups.

Sorry to be a bother however just playing on my mind a bit.

Thanks
Bec

On Wed, Apr 15, 2020 at 9:21 AM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello All,
>
> -
>
> As you would have received the notice about the AHIP approval yesterday, I am contacting the three original groups from the 2014 survey to confirm involvement in the test excavation. My previous email did say the week of the 27 April, it has come to my attention that the 27 April is a public holiday. I am proposing to move the excavation to the week of the **4 May**. The AHIP has granted approval for 5 test excavation of the shell sites (all on AHIMS) found in 2014, I am proposing one per day. This will follow the methodology set out in the AHIP. At present I am thinking an 8:30 am start for the Monday.
>
> -
>
> I am happy to discuss the project further or answer any question you might have. At present I am in the office from Monday to Thursday normally between 7:30 am to 3:30 pm. If you want to organise a time to speak just let me know.

-

Regards,

-

Jake

-

Jake Brown Archaeologist

jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400

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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Sunday, 3 May 2020 5:21 PM
To: Jake Brown
Subject: Re: Bobs Farm 4 May
Attachments: Sites Officer Rates 2020.docx

Categories: Filed

Thanks Jake, I will be there in the morning.
Apologises as I did not attach rates of pay into previous email.
Please find enclosed Murrooma Sites Officer Rates.
Thanks
Bec

On Thu, Apr 30, 2020 at 2:38 PM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello,
>
> -
>
> Please find attached a map of the meeting location for Monday 4 May. I proposed to meet at 8:30am. Grant Brown and I will be attending from Advitech.
>
> -
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
>
> The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.
>
> 
>
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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Friday, 1 May 2020 6:18 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hi Jake
R we included in salvage, just need to organise if we r
Thanks

Ryan johnson

On 1 May 2020, at 10:39 am, Jake Brown <Jake.Brown@advitech.com.au> wrote:

Hello Registered Parties,

An administrative error from my original email was that the excavation was expected to occur on the 27 April. Due to what I thought was a public holiday and other work, I can now confirm that the excavation will start on Monday the 4 May 2020.

The ACHMP has also been delayed to include details from the excavation.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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<image001.jpg>

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From: Jake Brown
Sent: Tuesday, 14 April 2020 1:33 PM
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Sorry for any confusion with my previous email, the original parties that have been asked to provide field representatives for the test excavation are Worimi LALC, Nur-Run-Gee and Murroma. These parties have been involved in the project since 2014. I appreciate that this is a small group when 13 parties are involved. All parties will be asked to participate in the AHCMP and review of the excavation report.

If there are any further queries please let me know.

Regards,

Jake

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Thank you for your continued involvement in the project. The AHIP for test excavation has been issued today (14 April). Please find attached a copy for your record. The test excavation will be proceeding according to the AHIP requirements and current government guidelines for Covid 19. For continuity the original parties involved in the project will be asked to provide field representatives for the excavation. All parties will be provided a copy of the excavation report. The nominated sites are from the 2014 report and intend to answer those queries that the department had in the 2019 advice letter.

An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

<image001.jpg>

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Jake Brown

From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Friday, 1 May 2020 6:20 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hi Jake
R we included in the excavation
Thanks
Ryan johnson

On 1 May 2020, at 10:39 am, Jake Brown <Jake.Brown@advitech.com.au> wrote:

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jake.brown@advitech.com.au

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<image001.jpg>

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Regards,

Jake

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<image001.jpg>

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Jake Brown

From: Jake Brown
Sent: Friday, 1 May 2020 12:46 PM
To: lilly carroll
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Lilly,

As per my previous email Worimi LALC, Nur-Run-Gee and Murroma have been engaged to undertake the fieldwork. I appreciate all input from the 13 registered parties. The review of the report and ACHMP are forthcoming.

Thank you for your continued involvement in the project.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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advitech environmental

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If you have received this email in error, please delete it and notify us immediately.

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Friday, 1 May 2020 12:07 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake

Where is the meeting place plz

Sent from Yahoo Mail for iPhone

On Friday, May 1, 2020, 10:39 am, Jake Brown <Jake.Brown@advitech.com.au> wrote:

Hello Registered Parties,

An administrative error from my original email was that the excavation was expected to occur on the 27 April. Due to what I thought was a public holiday and other work, I can now confirm that the excavation will start on Monday the 4 May 2020.

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Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Regards,

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Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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> Regards,
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> Jake
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> Jake Brown Archaeologist
> jake.brown@advitech.com.au
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Jake Brown Archaeologist

jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Friday, 1 May 2020 10:40 AM
Subject: FW: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Registered Parties,

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Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Thursday, 30 April 2020 2:36 PM
To: lennie.anderson011 lennie.anderson011
Subject: RE: New Cert

Categories: Filed

Thanks Lennie.

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 2:34 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: New Cert

FYI

Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 2:34 PM
To: Jake Brown
Subject: New Cert
Attachments: Workers Insurance Certificate of Currency.Icare.pdf

Categories: Filed

FYI

Jake Brown

From: Jake Brown
Sent: Thursday, 30 April 2020 2:24 PM
To: Anthony Anderson
Subject: RE: Bobs Farm excavation

Categories: Filed

Thanks Bec.

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Thursday, 30 April 2020 2:14 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm excavation

Hi Jake,
Please find attached copies of insurances.
I will be driving my own private vehicle to work however this is insured with AAMI.
Thanks
Bec

On Tue, Apr 28, 2020 at 1:53 PM Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello all,
>
> -
>
> As with the previous fieldwork last year, is it possible to provide Advitech if updated insurance details for:
>
> - Works compensation insurance
> - Public liability insurance
> - Vehicle insurance for travel to and from site
>
> Is it possible to also provide current rates?
>
> Regards,
>
> -
>
> Jake
>
> -
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> -
>
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-

--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 2:15 PM
To: Jake Brown
Subject: Workers Comp Certif CURRENT

Categories: Filed

FYI

Lennie

Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Thursday, 30 April 2020 2:14 PM
To: Jake Brown
Subject: Re: Bobs Farm excavation
Attachments: Liability CofC 2019-20.pdf; Workers Comp 2019-20.pdf

Categories: Filed

Hi Jake,
Please find attached copies of insurances.
I will be driving my own private vehicle to work however this is insured with AAMI.
Thanks
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Anthony Anderson
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Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Thursday, 30 April 2020 1:46 PM
To: lennie.anderson011 lennie.anderson011
Subject: RE: RE: Info Req

Categories: Filed

Hello Lennie,

I have the one you supplied last year and your last email only covered liability.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 1:39 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: RE: Info Req

Hi Jake,

Icare took over from Workcover, I supplied current cert and receipt for the New Cert.

Thanking you

Lennie

------ Original Message ------

From: "Jake Brown" <Jake.Brown@advitech.com.au>
To: "lennie.anderson011 lennie.anderson011" <lennie.anderson011@bigpond.com>
Sent: Wednesday, 29 Apr, 2020 At 2:15 PM
Subject: RE: Info Req

Hello Lennie,

Thanks for send that, do you have workers compensation insurance?

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Wednesday, 29 April 2020 11:28 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Info Req

Hi Jake,

Hope this is okay! we are not sure what vehicle yet, but obviously it would have to be Registered and Insured to be able to drive it to the job. Chris will be attending for us.

Thanks Mate

Lennie

Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Thursday, 30 April 2020 1:39 PM
To: Jake Brown
Subject: Re: RE: Info Req

Categories: Filed

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Jake Brown Archaeologist
jake.brown@advitech.com.au

The Advitech Group offices remain operational with practices in accordance with the latest health advice regarding the pandemic. We are working remotely and using video conferencing where possible. We are committed to upholding our level of service and appreciate your continued support. We wish you and your loved ones well during this challenging time.



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If you have received this email in error, please delete it and notify us immediately.

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Wednesday, 29 April 2020 11:28 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Info Req

Hi Jake,

Hope this is okay! we are not sure what vehicle yet, but obviously it would have to be Registered and Insured to be able to drive it to the job. Chris will be attending for us.

Thanks Mate

Lennie

Jake Brown

From: Jake Brown
Sent: Wednesday, 29 April 2020 2:16 PM
To: lennie.anderson011 lennie.anderson011
Subject: RE: Info Req

Categories: Filed

Hello Lennie,

Thanks for send that, do you have workers compensation insurance?

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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Thanks Mate

Lennie

Jake Brown

From: Jake Brown
Sent: Wednesday, 29 April 2020 2:14 PM
To: Jamie Merrick
Subject: RE: Bobs Farm excavation

Categories: Filed

Thanks Jamie

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 29 April 2020 1:22 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: FW: Bobs Farm excavation

Good Afternoon,

See attached copy of insurance certificates as requested.

Kind regards

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

The Worimi Local Aboriginal Land Council respects the privacy of individuals and strives to comply with all areas of the Privacy Act. The contents of this email are intended for the purpose of the person or persons named in either the "To" or "CC" boxes of the email. Any person not named in these boxes in receipt of this email should immediately delete this email and advise the sender accordingly.



From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 28 April 2020 1:53 PM
To: Sites <Sites@worimi.org.au>; lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>; Anthony Anderson <murroomainc1@gmail.com>
Subject: Bobs Farm excavation

Hello all,

As with the previous fieldwork last year, is it possible to provide Advitech if updated insurance details for:

- Works compensation insurance
- Public liability insurance

- Vehicle insurance for travel to and from site

Is it possible to also provide current rates?

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 29 April 2020 1:22 PM
To: Jake Brown
Subject: FW: Bobs Farm excavation
Attachments: 20200429131613584.pdf; 20200429131619019.pdf

Categories: Filed

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Kind regards

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Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

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If you have received this email in error, please delete it and notify us immediately.

Jake Brown

From: Jake Brown
Sent: Thursday, 23 April 2020 1:09 PM
To: Worimi TOC
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Candy,

I understand your position in wanting to participate in the excavation and be activity involved in the protection of your culture. I am aware that Nur-Run-Gee and Murrooma are owned by different people from the same family, however as I stated earlier they both responded in 2014 and for continuity have been asked to participate, as well as being familiar with site. I am in no way trying to exclude any of the 13 registered parties and I welcome all information/continued discussion going forward.

Going forward the original parties have be invited to participate in the field work, whilst I would like to involve more people it is not feasible due to the site and testing regime. Also with the current Coronavirus pandemic we must minimise people on site and allow maximum social distancing.

Your input to the project is greatly valued.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

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If you have received this email in error, please delete it and notify us immediately.

From: Worimi TOC <worimitoc@hotmail.com>
Sent: Monday, 20 April 2020 5:40 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake,

Nur-Run-Gee and Murroma are the exact same family group which is ok but you are going to get the exact same cultural knowledge from them. Could you contact the consultant and see if you can get me onsite for the excavations next week.

Cheers,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

ph: 0412 475 362

e: worimitoc@hotmail.com

WORIMI TOIC

Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Wednesday, 15 April 2020 9:00 AM
To: Worimi TOC <worimitoc@hotmail.com>
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Candy,

Thank you for your reply. I appreciate that as a Traditional owner of the area you would like to participate in the test excavations, I am only able to accommodate a few people on site at one time. As there are 13 groups involved, it is difficult to be able to offer all groups involved the opportunity for fieldwork. The review of the excavation report and the ACHMP are opportunities for all involved to voice their opinion about the project area and any potential impact on heritage.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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From: Worimi TOC <worimitoc@hotmail.com>
Sent: Tuesday, 14 April 2020 11:53 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake,

Thanks for your email.
Altho I was not registered in 2014 for the project as I am a Traditional owner of the area I would like to participate in the testing excavations for Bobs Farm Sand Mine that will commence on the 27th April 2020. It is culturally important for my people, the Worimi to be strongly involved in any matters that may impact our culture and heritage.

Kind regards,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

ph: 0412 475 362

e: worimitoc@hotmail.com

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From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 14 April 2020 1:33 PM
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Sorry for any confusion with my previous email, the original parties that have been asked to provide field representatives for the test excavation are Worimi LALC, Nur-Run-Gee and Murroma. These parties have been involved in the project since 2014. I appreciate that this is a small group when 13 parties are involved. All parties will be asked to participate in the AHCMP and review of the excavation report.

If there are any further queries please let me know.

Regards,

Jake

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Thank you for your continued involvement in the project. The AHIP for test excavation has been issued today (14 April). Please find attached a copy for your record. The test excavation will be proceeding according to the AHIP requirements and current government guidelines for Covid 19. For continuity the original parties involved in the project will be asked to provide field representatives for the excavation. All parties will be provided a copy of the excavation report. The nominated sites are from the 2014 report and intend to answer those queries that the department had in the 2019 advice letter.

An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

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Jake Brown

From: Worimi TOC <worimitoc@hotmail.com>
Sent: Monday, 20 April 2020 5:40 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Filed

Hi Jake,

Nur-Run-Gee and Murroma are the exact same family group which is ok but you are going to get the exact same cultural knowledge from them. Could you contact the consultant and see if you can get me onsite for the excavations next week.

Cheers,
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From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Wednesday, 15 April 2020 9:00 AM
To: Worimi TOC <worimitoc@hotmail.com>
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Candy,

Thank you for your reply. I appreciate that as a Traditional owner of the area you would like to participate in the test excavations, I am only able to accommodate a few people on site at one time. As there are 13 groups involved, it is difficult to be able to offer all groups involved the opportunity for fieldwork. The review of the excavation report and the ACHMP are opportunities for all involved to voice their opinion about the project area and any potential impact on heritage.

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Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Wednesday, 15 April 2020 9:59 AM
To: Jake Brown
Subject: Re: Bobs Farm Test Excavation

Categories: Filed

Hi Jake,

Thanks for the update. Chris Collison (Snr Sites Officer) will be representing Nur-Run-Gee Pty Ltd, as he was involved in all the previous studies. Please keep us in the loop for meeting times etc.

Thanking you.

Lennie Anderson OAM ASM
(Director)

------ Original Message ------
From: "Jake Brown" <Jake.Brown@advitech.com.au>
To: "lennie.anderson011 lennie.anderson011" <lennie.anderson011@bigpond.com>; "Sites@worimi.org.au" <Sites@worimi.org.au>; "Anthony Anderson" <murroomainc1@gmail.com>
Sent: Wednesday, 15 Apr, 2020 At 9:21 AM
Subject: Bobs Farm Test Excavation

Hello All,

As you would have received the notice about the AHIP approval yesterday, I am contacting the three original groups from the 2014 survey to confirm involvement in the test excavation. My previous email did say the week of the 27 April, it has come to my attention that the 27 April is a public holiday. I am proposing to move the excavation to the week of the **4 May**. The AHIP has granted approval for 5 test excavation of the shell sites (all on AHIMS) found in 2014, I am proposing one per day. This will follow the methodology set out in the AHIP. At present I am thinking an 8:30 am start for the Monday.

I am happy to discuss the project further or answer any question you might have. At present I am in the office from Monday to Thursday normally between 7:30 am to 3:30 pm. If you want to organise a time to speak just let me know.

Regards,

Jake

Jake Brown Archaeologist

jake.brown@advitech.com.au

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Jake Brown

From: Jake Brown
Sent: Wednesday, 15 April 2020 9:49 AM
To: Anthony Anderson
Subject: RE: Bobs Farm Test Excavation

Categories: Filed

Hello Bec,

Thank you for confirming.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

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From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 15 April 2020 9:34 AM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Test Excavation

Hi Jake,
Yes Murrooma will have a representative available from the 4th of May and 8;30 start is fine.
Thanks
Bec

On Wednesday, April 15, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

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Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

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Subject: Re: Bobs Farm Test Excavation

Categories: Filed

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> Regards,
>
> Jake
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
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Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jake Brown
Sent: Wednesday, 15 April 2020 9:22 AM
To: lennie.anderson011 lennie.anderson011; Sites@worimi.org.au; Anthony Anderson
Subject: Bobs Farm Test Excavation

Categories: Filed

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Jake Brown

From: Jake Brown
Sent: Wednesday, 15 April 2020 9:01 AM
To: Worimi TOC
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Candy,

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Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

www.advitech.com.au

7 Riverside Drive | Mayfield West | NSW | 2304 | PO Box 207 | Mayfield | NSW | 2304 | P 02 4924 5400

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From: Worimi TOC <worimitoc@hotmail.com>
Sent: Tuesday, 14 April 2020 11:53 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: Re: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake,

Thanks for your email.
Altho I was not registered in 2014 for the project as I am a Traditional owner of the area I would like to participate in the testing excavations for Bobs Farm Sand Mine that will commence on the 27th April 2020. It is culturally important for my people, the Worimi to be strongly involved in any matters that may impact our culture and heritage.

Kind regards,
Candy

Candy Towers

Worimi Custodian

Worimi Traditional Owners Indigenous Corporation

ph: 0412 475 362

e: worimitoc@hotmail.com



Guudji Yiigu, I am a Worimi and Yorta Yorta woman from Newcastle NSW, I acknowledge and pay my respects to the traditional owners and custodians of the land on which I live and work, to their continuing connection to land, water, culture and community and pay my respects to the Elders past, present and to our future generations.

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 14 April 2020 1:33 PM
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Sorry for any confusion with my previous email, the original parties that have been asked to provide field representatives for the test excavation are Worimi LALC, Nur-Run-Gee and Murroma. These parties have been involved in the project since 2014. I appreciate that this is a small group when 13 parties are involved. All parties will be asked to participate in the AHCMP and review of the excavation report.

If there are any further queries please let me know.

Regards,

Jake

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hello Registered Parties,

Thank you for your continued involvement in the project. The AHIP for test excavation has been issued today (14 April). Please find attached a copy for your record. The test excavation will be proceeding according to the AHIP requirements and current government guidelines for Covid 19. For continuity the original parties involved in the

project will be asked to provide field representatives for the excavation. All parties will be provided a copy of the excavation report. The nominated sites are from the 2014 report and intend to answer those queries that the department had in the 2019 advice letter.

An ACHMP was also recommended for this project and this discussion with all the registered parties will be commencing in April.

Excavation is expected to commence on the 27 April, 2020 and last for up to 5 days.

Regards,

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Jake Brown Archaeologist

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Categories: Filed

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Candy Towers
Worimi Custodian
Worimi Traditional Owners Indigenous Corporation
ph: 0412 475 362
e: worimitoc@hotmail.com

WORIMI TOIC

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Jake Brown

From: Jake Brown
Sent: Tuesday, 14 April 2020 1:35 PM
To: David Feeney
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Categories: Filed

Hello Dave,

Thank you for your offer of assistance with the excavation. The three parties asked to participate are Worimi LALC, Nur-Run-Gee and Murrooma. I apologise if my earlier email was misleading.

Regards,

Jake

Jake Brown Archaeologist
jake.brown@advitech.com.au

advitech environmental

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From: David Feeney <indigenouskaruah@outlook.com>
Sent: Tuesday, 14 April 2020 1:21 PM
To: Jake Brown <Jake.Brown@advitech.com.au>
Subject: RE: Bobs Farm Sand Mine Test Excavation AHIP Notice

Hi Jake;

Shell we met at 3631 Nelson Bay Rd, Bobs Farm
At 07:30am on the 27th April 2020.

Thank you

Dave Feeney
Snr Aboriginal Cultural Officer
Karuah Indigenous Corporation
0421114853

From: Jake Brown <Jake.Brown@advitech.com.au>
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice

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At 07:30am on the 27th April 2020.

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Karuah Indigenous Corporation
0421114853

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Jake Brown

From: Jake Brown
Sent: Tuesday, 14 April 2020 10:50 AM
Subject: Bobs Farm Sand Mine Test Excavation AHIP Notice
Attachments: Bobs Farm Sand Mine AHIP C0005692 - Apr 2020.pdf

Categories: Filed

Hello Registered Parties,

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Jake Brown

From: Tamara Towers <worimiacs@gmail.com>
Sent: Sunday, 12 April 2020 8:16 PM
To: Jake Brown
Subject: Re: Bobs Farm Sand Mine project

Categories: Filed

Thanks Jake,

Looking forward to hearing from you soon.

Regards
Tamara Towers

On Wed, 19 Feb 2020 at 10:50 AM, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Dear Registered Parties,
>
> Thank you for your contribution to the Bobs Farm Sand Mine project so far. The AHIP for the test excavation has been lodged. I will keep all parties updated with the progress of the AHIP process. Further consultation will be undertaken at a later date as part of the test excavation and ACHMP. If you have any questions please let me know.
>
> Regards,
>
> Jake
>
> **Jake Brown** Archaeologist
> jake.brown@advitech.com.au
>
> advitech environmental
> www.advitech.com.au
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Jake Brown

From: lennie.anderson011 lennie.anderson011 <lennie.anderson011@bigpond.com>
Sent: Wednesday, 25 March 2020 2:40 PM
To: Jake Brown
Subject: Re: Bobs Farm going forward

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Filed

Hi Jake,

Thank you for the correspondence and the earliest you could let us know would be appreciated.

Lennie

------ Original Message ------
From: "Jake Brown" <Jake.Brown@advitech.com.au>
To: "Sites@worimi.org.au" <Sites@worimi.org.au>; "murroomainc1@gmail.com" <murroomainc1@gmail.com>; "lennie.anderson011 lennie.anderson011" <lennie.anderson011@bigpond.com>
Sent: Wednesday, 25 Mar, 2020 At 7:48 AM
Subject: Bobs Farm going forward

Hello Worimi LALC, Mur-Roo-Ma and Nur-Run-Gee,

Regarding the Bobs Farm test excavation I have been in contact with DPIE. As I believe the heritage division is changing departments an AHIP won't be issued until approximately mid April. This corresponds with the prerequisite assessment time at any rate. As your organisation has previous field involvement with the project (both in 2014 and 2019) Advitech would like to ask you to potentially provide one field person to assist with the test excavation. The test excavation is expected to take approximately five days at present. This early contact is to determine your organisations availability for late April and early May. This will depend upon the exact date of issue. I plan to provide two weeks' notice before commencement.

At present I plan for all three groups to provide a field representative daily for the five day period. This may ultimately be affected by government guidelines for health.

<u>Safety and general items</u>

Shoring equipment (portable for 900mm x 900mm and 1.2m depth) will be organised for the project. This was mentioned in a meeting last year with DPIE and the recommendation has been carried forward. Due to excavation issues with sand/potentially unstable ground any safety concerns should be mentioned directly to the Advitech representative either prior or as they come to people attention. All concerns will be noted.

Generally as all three organisations are familiar with the terrain and vegetation, the test locations are potentially difficult to access and equipment will need to be carried in from relevant vehicle access. People participating should have a general fitness as the field activities may be strenuous.

With availability, if field representative has another appointment (organisation or personal) which make it difficult to complete a full days participation, it would be appreciated if this was addressed internally prior to fieldwork. If issues are noted and cannot be resolved internally please notify me prior to commencement of the day and arrangements can be put in place (half day, no representative on that day, etc.

Given the current pandemic situation safety measures such as social distancing or other updated guidelines will be utilised for the fieldwork if the situation has not improved. This will be discussed further when a definite date can be set.

Any organisation that is not available at the time of the organisation can still participate in the ACHMP and will be provide a copy of the archaeological report.

Advitech is currently implementing a work from home policy, if you have any concerns and wish to discuss them please send me an email or we can arrange a time to speak over the phone.

Regards,

Jake

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jake.brown@advitech.com.au

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Jake Brown

From: Anthony Anderson <murroomainc1@gmail.com>
Sent: Wednesday, 25 March 2020 2:19 PM
To: Jake Brown
Subject: Re: Bobs Farm going forward

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Filed

Hi Jake,
Thanks for this information
Murrooma will be fine to have a representative for test excavation-obviously following your guidelines.
Please keep in touch and I guess we just wait to see what happens

Thanks
Bec

On Wednesday, March 25, 2020, Jake Brown <Jake.Brown@advitech.com.au> wrote:

> Hello Worimi LALC, Mur-Roo-Ma and Nur-Run-Gee,
>
> Regarding the Bobs Farm test excavation I have been in contact with DPIE. As I believe the heritage division is changing departments an AHIP won't be issued until approximately mid April. This corresponds with the prerequisite assessment time at any rate. As your organisation has previous field involvement with the project (both in 2014 and 2019) Advitech would like to ask you to potentially provide one field person to assist with the test excavation. The test excavation is expected to take approximately five days at present. This early contact is to determine your organisations availability for late April and early May. This will depend upon the exact date of issue. I plan to provide two weeks' notice before commencement.
>
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>
> Safety and general items
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--

Anthony Anderson
CEO Mur-roo-ma Incorporated
Justice of The Peace

Jake Brown

From: Jamie Merrick <jamie.merrick@worimi.org.au>
Sent: Wednesday, 25 March 2020 8:46 AM
To: Jake Brown
Subject: Test Excavation

Follow Up Flag: Follow up
Flag Status: Completed

Categories: Filed

Good Morning Jake
Worimi Local Aboriginal Land Council can have a representative available for the test excavation at Bobs Farm for the period mentioned

Jamie Merrick
Snr Site Officer
Worimi Local Aboriginal Land Council
P: 02 4033 8800 F: 02 4033 8899 E: sites@worimi.org.au M: 0429 994 292

The Worimi Local Aboriginal Land Council respects the privacy of individuals and strives to comply with all areas of the Privacy Act. The contents of this email are intended for the purpose of the person or persons named in either the "To" or "CC" boxes of the email. Any person not named in these boxes in receipt of this email should immediately delete this email and advise the sender accordingly.

WORIMI Local Aboriginal Land Council

Think before you print.

Jake Brown

From: Jake Brown
Sent: Wednesday, 25 March 2020 7:48 AM
To: Sites@worimi.org.au; murroomainc1@gmail.com; lennie.anderson011 lennie.anderson011
Subject: Bobs Farm going forward

Categories: Filed

Hello Worimi LALC, Mur-Roo-Ma and Nur-Run-Gee,

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APPENDIX III: Cultural Heritage Induction Guide

Environmental & Sustainability Consultants



BOBS FARMS SAND MINE

CULTURAL HERITAGE AWARENESS TRAINING

advitech environmental

ABORIGINAL HERITAGE AND LAND

Aboriginal people, whose presence in Australia exceeds 45,000 years, chose the best, most convenient and most resource rich locations in the landscape to occupy for regular camping sites and for ceremonial purposes. Research published in 2017 dated material in the Northern Territory to 60,000 years.

Modern Australians have largely done the same thing with preference and value being allocated to properties with good views, easy access to waterways and good resources. Thousands of Aboriginal heritage objects exist across New South Wales in both private and publicly owned property.

WHAT IS AN ABORIGINAL HERITAGE SITE, OBJECT OR PLACE?

Aboriginal heritage can be described with the following definitions:

- **Aboriginal objects** are physical evidence of the use of an area by Aboriginal people. They can also be referred to as 'Aboriginal sites', ‘Aboriginal relics‘, ‘Aboriginal places’ or 'cultural material‘ (OEH 2012).
- **Aboriginal places** are often places of significance to Aboriginal people and communities. They may be places of ceremony, teaching, or walking lines, woman’s places or men’s places or places of burial, to name a few. They may also be places of previous conflict or memory such as Aboriginal missions or schools or places of massacre, etc. Aboriginal places are easily searched on the NSW State Heritage register.
- **Aboriginal cultural landscapes** are areas that are culturally important to Aboriginal people.

WHERE ARE ABORIGINAL OBJECTS FOUND?

However, aboriginal objects are more likely to be found in the following landscapes:

- **Sandstone** overhangs, outcrops or platforms may contain rock art, engravings, grinding grooves, seed or ochre grinding patches and/or potential archaeological deposits in the subfloor;
- **Mature trees** that have been modified by carving or have scarring related to Aboriginal use;
- **Within walking distance from foreshores**, freshwater or riparian zones may contain Aboriginal shell middens, grinding grooves and camping sites; sandy areas and sub surfaces may contain skeletal remains and buried sites;
- In **earth mounds** that appear out of place in otherwise flat areas;
- Where **geology** reveals suitable rock or ochre quarries;
- Isolated objects such as stone artefacts can be found **wherever they fell**.

TYPES OF ABORIGINAL HERITAGE OBJECTS

Heritage items found on the east coast of NSW and the Hunter region include:

- Occupation sites
  - Rock shelters with/without art and/or with/without archaeological deposits;
  - Open camp sites; and
  - Shell middens
- Stone artefacts;
- Rock engravings, grinding grooves (for tool sharpening or food preparation);
- Ceremonial sites, Aboriginal places and/or sites of cultural significance/cultural landscapes;
- Burials;
- Rock or ochre quarries;
- Scarred trees; and
- Fish traps.

OCCUPATION SITES

Occupation sites can include open camp sites, rock shelters and middens

- **Occupation camp sites** are places that contain:
  - Evidence of where Aboriginal people have lived including stone tools, fireplaces, burials and occasionally food remains such as shells, bones and plant seeds.
  - The three main types of occupation sites are shell middens, rock shelters with archaeological deposits or rock art, and open camp sites.

- **In outcrops of rock,** such as sandstone or granite, overhangs may form cave-type shelters. Over the years, material would build up, including ashes from fires, sediments, food, discarded tools and material from the cave roof. Archaeologists can excavate these deposits in order to study the patterns of Aboriginal life in the past. When undisturbed, these sites have high scientific value.

OCCUPATION SITES - CONTINUED

Aboriginal shell middens are shell mounds built up over hundreds of years as a result of countless meals of shellfish. They:

- Are found along ocean coasts, estuaries, rivers and inland lakes but they can be anywhere;
- Primarily contain mature specimens of edible shellfish species, bird, fish and animal teeth and bones, campfire charcoal, stone flakes and the remains of tools;
- May also contain remains from human burials;
- Differ immensely in shape and size, from a few shells scattered on the surface, to deposits that are metres thick and buried beneath vegetation. Middens are the most common and visible Aboriginal site along the Australian coast.

OCCUPATION SITES - CONTINUED

Aboriginal rock art, which is usually created by stencil or drawing, is usually found on the ceilings and walls of rock shelters.

- Rock shelters and rock art occur wherever suitable rock surfaces and outcrops exist.
- Typical figures depicted humans, kangaroos, emus, echidnas, grid patterns, animal tracks, boomerangs, axes, hand stencils and other spiritual motifs.
- Paintings are usually created with white, red, yellow and black ochre pigments. Stencils are produced by mixing ochre in the mouth into a wet paste, then spraying it over the object to be stencilled onto the wall of the shelter.
- Other forms of artwork include charcoal drawings and etchings, finger paintings or brushed on with chewed stick.

GRINDING GROOVE AND DISHES

- Grinding grooves were used by toolmakers who preferred hard, volcanic stones which could hold a sharpened edge. Examples of these rocks include dolerite or basalt. The selected piece of stone was usually shaped by flaking before it was ground. Grinding was used to put the finishing touches on the shape of a tool, and sharpen its cutting edge.
- Ground implements were shaped on suitable surfaces such as sandstone outcrops. In the Sydney district there are hundreds of grinding grooves. Most commonly, these were used to sharpen axes or hatchets.
- Dishes for milling grain or ochre were also common. These were often shaped by pecking, and had ground surfaces caused by wear.

STONE ARTEFACTS

- An Aboriginal stone artefact is stone which has been made or modified by Aboriginal people (excluding handicrafts and anything made for sale). The term 'stone artefact' includes both a finished product - usually a stone tool - and the debris which was left behind when it was made.
- Stone artefacts are the most common form of archaeological evidence found in Australia. These artefacts can be found lying on the surface in undisturbed areas, often in quite large numbers. They can also be uncovered by erosion, road works, or ploughing (OEH 2012).
- Stone artefacts range from axe heads to small thumb nail scrapers. Aboriginal stone artefacts were multi purpose instruments and used or adapted for use depending on the need at the time.

Common Stone Artefact Material

Common types of stone used for tools include:

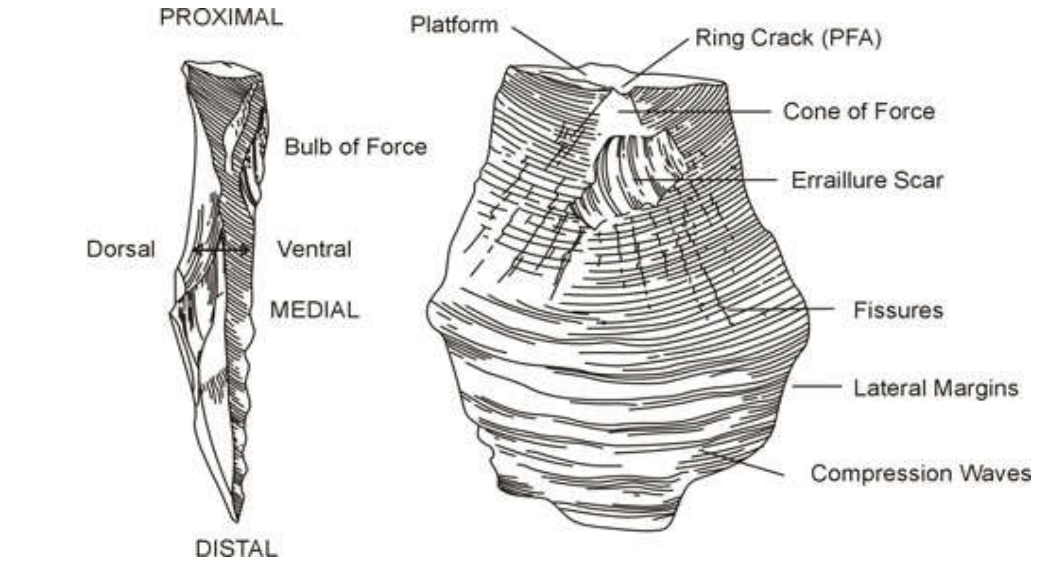
- Chert
- Quartz
- Quartzite
- Silcrete



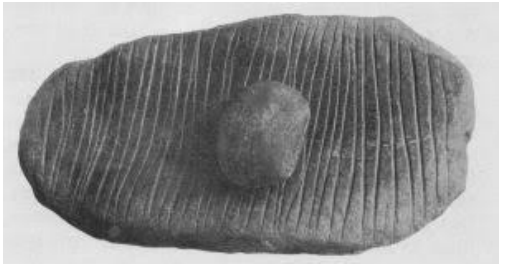
Sample images of common stone types left to right chert, quartz, quartzite and silcrete

STONE ARTEFACT DIAGNOSTICS

- Stone artefacts can include cores from which flakes have been removed. These will have negative scars. Flakes will have positive scars on the ventral (pictured right).
- Other types of tools include axes (bottom left) and grindstones (bottom right)







ROCK OR OCHRE QUARRIES

Aboriginal rock or ochre quarries occurred all over Australia with the Department of Primary Industries (DPI) (2007) indicating most major sites ceased operation no later than 50 years ago.

- 184 Aboriginal quarries are registered in NSW in 2007 including 17 ochre mines (DPI 2007).
- Some ochre mines are still used to harvest ochre for ceremonies
- Some resources were highly sought and trade is recorded as part of the Aboriginal economy

SCARRED TREES

Bark removal resulting in a scar could occur for a number of reasons including:

- Construction of shelter, watercraft and containers
- Tree carving for ceremonial purposes
- Wood removal for items such as shields, boomerangs and waddies
- Food collection such as toe holds and extraction points (honey, grubs)

Overgrowth (new bark) may occur around the dry face (removed section) and may cover the scar given time and depending on the species of tree.

SCARRED TREE DIAGNOSTICS

Identifying a scarred tree includes:

- Tool marks from when the bark was removed
- Tree species (not all tree species were used)
- Trees dating approximately to 1950s or earlier

CEREMONIAL AND CULTURAL PLACES

Ceremonial and cultural places can include:

- Stone arrangements such as fish traps and ceremonial placements
- Ceremonial grounds for initiations and important social functions
- Burial sites

Burials

Burials may be located in a variety of landscapes in NSW. Examples of locations include:

- Middens
- Lunettes
- Bordering dunes
- Sandy and sedimentary soils

Other methods in NSW include burial mounds and placement in earth ovens.

RESULTS OF ARCHAEOLOGY ASSESSMENTS

2014 Aboriginal Cultural Heritage Assessment

- Located shell scatters across sites
- OEH recommended further assessment including subsurface testing

2019 Aboriginal Cultural Heritage Management Plan

- Subsurface testing resulted in confirmation of shell at one location
- Management plan enacted with community consultation

Penalties for harm to Aboriginal Objects

Offence	Maximum penalty: Individual	Maximum penalty: Corporation
A person must not harm or desecrate an Aboriginal object that the person knows is an Aboriginal object	$275,000 or imprisonment for one year $550,000 or imprisonment for 2 years, or both (in circumstances of aggravation)	$1,100,000
A person must not harm or desecrate an Aboriginal object (strict liability offence)	$55,000 $110,000 (in circumstances of aggravation)	$220,000
A person must not harm or desecrate an Aboriginal Place (strict liability offence)	$550,000 or imprisonment for 2 years, or both	$1,100,000
Failure to notify OEH of the location of an Aboriginal object	$11,000, and for continuing offences a further maximum penalty of $1100 applies for each day the offence continues	$22,000, and further maximum penalty of $2200 for each day the offence continues
Contravention of any condition of an Aboriginal Heritage Impact Permit	$110,000 or imprisonment for 6 months, or both, and in the case of a continuing offence a further penalty of $11,000 for each day the offence continues	$220,000, and further maximum penalty of $22,000 for each day the offence continues

REFERENCES

- Department of Primary Industries (DPI) 2007, Mining by Aborigines – Australia's first miners. Primefact 572. DPI NSW Government. Viewed 30/4/2019 <http://www.dpi.nsw.gov.au/__data/assets/pdf_file/0008/109817/mining-by-aborigines.pdf>.
- Long, A. 2005. Aboriginal scarred trees in New South Wales, A field manual. Department of Environment and Conservation NSW.
- Office of Environment and Heritage (OEH) 2012, Aboriginal Objects. Office of Environment and Heritage NSW Government. Viewed 30/4/2019 <https://www.environment.nsw.gov.au/nswcultureheritage/objects.htm>.
- Office of Environment and Heritage (OEH) 2018, Places of significance. Office of Environment and Heritage NSW Government. Viewed 30/4/2019 <https://www.environment.nsw.gov.au/nswcultureheritage/placesofsignificance.htm>.

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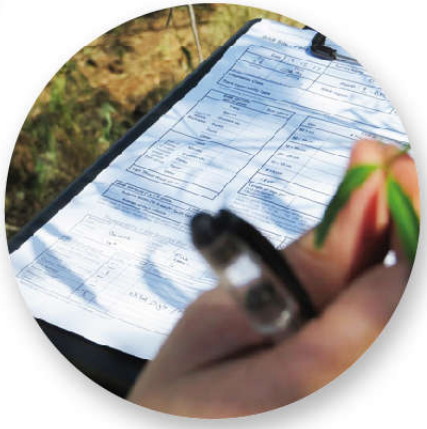
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advitech
environmental

APPENDIX IV: Care and Control Agreement

Application for the transfer of Aboriginal objects for safekeeping

Please use this form if you want to apply for the custodianship of Aboriginal objects where there is no known Aboriginal owner. Under section 85A(1)(c) of the *National Parks and Wildlife Act 1974* (NPW Act), the Secretary of the Department of Premier and Cabinet may transfer such Aboriginal objects to a person or persons for safekeeping. Further information on Care Agreements is available online.

If you require assistance completing this form, please contact Customer Strategies on 02 9873 8500. Once completed and signed, the form and all supporting information should be sent to heritagemailbox@environment.nsw.gov.au. Please note that if your application is incomplete you may be requested to provide further information.

If your application is granted, Heritage NSW will contact you to negotiate a Care Agreement. The Care Agreement will include details about the location, storage, care, recording and notification requirements of the Aboriginal objects that are the subject of this transfer application. A copy of the Care Agreement will be sent to you. To execute the agreement, it will need to be signed and witnessed, and then returned to Heritage NSW.

1. Proposed custodian

1.1 Details of the proposed custodian

Aboriginal objects can be transferred to individual(s), a company, body corporate or public authority, but ***not*** to a partnership or joint-venture. It is Heritage NSW policy that only the proposed custodian of the objects can apply for the transfer of those **objects** to themselves under s. 85A(1)(c) of the NPW Act.

Custodian's full name(s)	Title: Mr	Given name: Jamie		
	Surname: Merrick			
Trading as (if applicable)	Worimi Local Aboriginal Land Council			
ACN/ABN (if applicable)	ACN:	ABN: 51 352 201 603		
Registered business address	No: 2163	Street name: Nelson Bay Rd		
	Suburb: Williamtown	State: NSW	Postcode: 2318	
Phone numbers	Business:	Mobile: 0429994292 Type text here	After hours:	
Fax and email	Fax:	Email: sites@worimi.org.au		

Application for the transfer of Aboriginal objects for safekeeping

1.2 Contact details for inquiries

Where the custodian is a company, body corporate or public authority, you may also nominate a contact for inquiries. This person must be someone who has the authority and responsibility for overseeing, for and on behalf of the custodian, the actions relating to the Aboriginal objects. These actions will be outlined in the Care Agreement (issued pursuant to s. 85A(1)(c) of the NPW Act).

Name	Title: Mr	Given name: Jamie	
	Surname: Merrick		
Organisation	Worimi Local Aboriginal Land Council		
Position	Snr Site Officer		
Phone numbers	Business: 40338800	Mobile: 0429994292	After hours:
Fax and email	Fax:	Email: sites@worimi.org.au	

2. Background/supporting information

2.1 Objects that have come from a development site or activity

Were the objects excavated/salvaged during a development or other activity?	**Yes** ☒	**No** ☐

If you answered '**No**', go to question 2.2.

If you answered '**Yes**', provide information about any consents and consent numbers connected to the activity and *attach* a copy of the actual consents/permits, and consultation details below.

Type of consent or permit	Consent / permit
A development consent, or other approval under the Environmental Planning and Assessment Act 1979 (e.g. consent, including State Significant Development under Part 4; approval under Part 5 – review of environmental factors; approval under Part 3A; approval under Part 5.1 State Significant Infrastructure projects).	Pending approval
An Aboriginal Heritage Impact Permit/s	C0005692
Other (please name):	

Application for the transfer of Aboriginal objects for safekeeping

Consent / opinions of Aboriginal people

Long-term management of Aboriginal objects should be discussed between the proponent, the registered Aboriginal parties (RAPs) and/or any other relevant party during the consultation process for an Aboriginal Heritage Impact Permit (AHIP) application or other approval (prior to any development or other activity commencing). Provide details of the discussions that have occurred regarding the long-term management of Aboriginal objects.

Attach relevant documentation. You may provide excerpts from your Aboriginal Cultural Heritage Assessment Report, copies of submissions and the proponent's response to submissions if applicable.

Consultation process undertaken on (insert dates):	14 June 2019 to November 2020
Consultation was conducted with the following persons (attach a list of the RAPs or relevant Aboriginal parties, indicate whether this information is sensitive)	Not sensitive information - parties include: Worimi Local Aboriginal Land Council, Mur-roo-ma Inc, Nur-run-gee Pty Ltd, Corroboree Aboriginal Corporation, Murra Bidgee Mullangari, Worimi Traditional Owners Indigenous Corporation, Didge Ngunawal Clan, Widescope, Karuah Indigenous Corporation, A1 Indigenous Services, Divine Diggers Aboriginal Cultural Consultants, Worimi Aboriginal Cultural Services, Lower Hunter Wonnarua Cultural Services
Outcome of the consultation process was (e.g. did the community agree/ partially agree or disagree with the transfer of the objects to the proposed custodian, provide reasons)	Agreement through ACHMP

Proceed to question 3.

2.2 Objects that have come from a previous storage location

Have the objects been the subject of a previous storage arrangement?	**Yes** ☒	**No** ☐

If you answered '**Yes**', provide information about the current storage location and arrangements and the reasons why a transfer is requested below.

Current Care Agreement no. (where applicable)			
Current custodian	Under AHIP C0005692		
Current location (land description or property name)	Located on Lot 254 DP 753204 near northern border of property boundary.		
Street address	No: 3631	Street name Nelson Bay Road	
	Town / suburb: Bobs Farm	State: NSW	Postcode: 2316

Application for the transfer of Aboriginal objects for safekeeping

Title details	Portion/s	Parish	County
	Lot and DP no.		
Local Government area/s	Port Stephens Local Government Area		
Reason for the transfer (e.g. returning to the Aboriginal community)	Outcome of ACHMP		

Have you discussed the transfer of the objects (subject of this application) with the relevant Aboriginal community?	**Yes** ☒	**No** ☐
Details of the Aboriginal community you spoke to	Registered Aboriginal Parties for Bobs Farm Sand Mine project	

Did the relevant Aboriginal community agree with the proposal to transfer the objects?	**Yes** ☒	**No** ☐
If you answered '**no**' please provide details as to why some or all of the community did not agree to the transfer.		

3. Duration

Please indicate the period for which you seek the transfer, proposed start and end dates.

Duration	Life of project - potentially 15 years
Proposed start date if later than the agreement signed date[1]	
Proposed end date	2035

It is the responsibility of the Agreement holder to renew the Care Agreement.

Where an Aboriginal owner comes forward, the existence of the transfer and subsequent Care Agreement under s. 85A(1)(c) of the NPW Act, cannot limit the Aboriginal owner's right to claim possession, custody or control of the Aboriginal object, and to deal with the object in accordance with Aboriginal tradition. Aboriginal owners are 'persons whose names are entered on the Register of Aboriginal Owners because of the persons' cultural association with particular land under the *Aboriginal Land Rights Act 1983*'.

[1] *The transfer will commence from the date the Care Agreement is signed, unless specified otherwise. The Care Agreement cannot be back-dated.*

Application for the transfer of Aboriginal objects for safekeeping

4. Storage details for Aboriginal object(s) included in this application

4.1 Location of the storage/safekeeping of the Aboriginal objects

Please provide the following details of the storage location of the Aboriginal objects, to which this application applies.

Land description or property name	Murrook Culture Centre			
Street address	No: 2163	Street name Nelson Bay Road		
	Town / suburb: Williamtown	State:	Postcode:	
Title details	Portion/s	Parish Stowell	County Gloucester	
	Lot and DP no. 748265			
Local Government area/s	Port Stephens Local Government Area			

4.2 Proposed storage method

Describe the storage method/s for the Aboriginal object(s).

Storage facility (e.g. in a locked display cabinet, in an archival box, or bag)[2]	In a plastic box in lockable shed
Other details (if applicable)	

It is anticipated that the Aboriginal object(s) will be made available to other persons in accordance with Aboriginal lore and custom (e.g. access to members of a particular Aboriginal community or to all registered Aboriginal parties for educational purposes and access to university students or archaeologists for research / educational purposes).

[2] *The safekeeping conditions of the Care Agreement will contain details of the storage requirements. There may be more than one storage method.*

Application for the transfer of Aboriginal objects for safekeeping

4.3 Description of the Aboriginal objects

Please provide details of the Aboriginal objects that are included in this application. Note, if there is an AHIP over these objects, then the AHIMS site information should have been provided as part of the AHIP application.

AHIMS site ID	Site feature	Description of objects	Number of objects
38-5-0350	Shell scatter	Partially destroyed site	
38-5-0351	Shell scatter	Partially destroyed site	
38-5-0352	Shell scatter	Partially destroyed site, 4 salvaged items	4
38-5-0353	Shell scatter	Partially destroyed site	
38-4-2016	Shell scatter	Partially destroyed site	

Please attach extra page(s) if more space is needed.

Application for the transfer of Aboriginal objects for safekeeping

5. Signature of proposed custodian

This application may only be signed by a person(s) with the legal authority to sign it. The various ways in which the application may be signed, and the people who may sign the application, are set out in the table below.

Please tick (✓) the box next to the category that describes how this application is being signed:

The proposed custodian is:		The application must be signed and certified by one of the following:
An individual	☐	the individual.
A company	☐ ☐ ☐ ☐	the common seal being affixed in accordance with the *Corporations Act 2001, or* two directors, or a director and a company secretary, or if a proprietary company has a sole director who is also the sole company secretary – by that director.
A public authority other than a council	☑	the chief executive officer of the public authority, or their authorised delegate.
A local council	☐ ☐	the general manager in accordance with s.377 of the *Local Government Act 1993* (LG Act), or the seal of the council being affixed in a manner authorised under the LG Act.

I/We (the proposed custodian):

- ***apply for the transfer of Aboriginal objects under s. 85A(1)(c) of the National Parks and Wildlife Act 1974***
- ***declare that the information in this application form (including all the attachments) is not false or misleading in any material particular***
- ***declare that all the documents required are attached.***

Proposed custodian

Signature		Signature	Type text here
Name (printed)	Andrew Smith	Name (printed)	Jamie Merrick
Position (in company or authority)	Type text here CEO	Position (in company or authority)	Type text here Snr Site Officer
Date	29/10/2020	Date	29/10/2020

Seal (if signing under seal)

APPENDIX V: Record of Salvaged Artefacts

Record of Salvaged Artefacts

Artefact name	Number of items	Date salvaged	Report / summary

APPENDIX VI: Register of Reports and Fieldwork

Register of Reports and Fieldwork

Report/Fieldwork	Date	Report name / fieldwork summary
ACHA Survey / Report	2015	AECOM Bobs Farm Sand Mine ACHAR
ACHA Survey / Report	2020	Advitech Bobs Farm Sand Mine ACHAR
Test Excavation / Report	2020	Advitech Bobs Farm Sand Mine test Excavation Report

APPENDIX VII: Guide to endangered species that could be impacted from archaeological excavation/salvage

Guide to Endangered species that could be impacted from Archaeological work.

The following threatened or rare species were identified in the 2018 Wildthing biodiversity assessment report for the Proposed Bobs Farm sand mine. This guide provides photographs of the species as well as lists from the Wildthing biodiversity report. This is to maximise awareness of any threatened or rare species that could potentially be impacted from Archaeological studies.

Species with a photographic reference were deemed by the Wildthing biodiversity report to have a low to high likelihood of occurring (unlikely were excluded). Only flora species have been added to the photographic list, due to a moderate probability that a heritage assessment would be more likely yo impact upon flora species than fauna. The species list from the 2018 Wildthing biodiversity assessment report has been included in this document.

Red Hermit Orchid 	Leafless Tongue orchid 
Tomaree Doubletail 	Newcastle Doubletail 

Eastern Underground Orchid 	Taree Rustyhood 
Netted Bottle Brush 	Drooping Red Gum 

Biconvex Paperbark 	Grove's Paperbark 
Magenta Lillypilly 	Noah's False Chickweed 

Maundia Triglochinoides	zannichellia palustris
	

Table 10: Habitat Assessment for Significant Species

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Corybas dowlingii Red Helmet Orchid	TSC Act-E	Forms colonies and typically grows in gullies in tall open forest on well-drained gravelly soil at elevations of 10-200m. Is restricted to New South Wales where it is currently known from 4 localities including Port Stephens (2 localities), Bulahdelah and Freemans Waterhole south of Newcastle. A population is known from Stoney Ridge Reserve on Soldiers Point on the southern shore of Port Stephens.	**Low** No preferred habitat in the form of areas of well drained gravelly soil was present within the sandy study area.	**Yes**
Cryptostylis hunteriana Leafless Tongue Orchid	TSC Act-E EPBC Act-E ROTAP – 3VC-	This species is a saprophyte, which grows in small, localised colonies on flat plains close to the coast. This species has also been recorded in mountainous areas growing in moist depressions as well as in swampy habitats.	**Low** Suitable habitat was considered to be present within the study area.	**Yes**
Diuris arenaria Tomaree Doubletail	TSC Act – E ROTAP – Recommend 2VC	Coastal heath, Dry Sclerophyll Forest with patches of *Themeda australis* (Kangaroo Grass) on sandy flats (Bishop, 1996). This species is only known from the Tomaree Peninsula on the southern side of Port Stephens.	**High-Recorded within the study area.** Suitable habitat was considered to be present over the majority of the study area.	**Yes**
Diuris praecox Newcastle Doubletail	TSC Act - V EPBC Act – V ROTAP – 2VC-	Found in eucalypt forests on hilltops or slopes and is widespread in grassy habitats. Large populations have been recorded within power line easements at Anna Bay and Bobs Farm (ERM, 2003).	**High** Suitable habitat was considered to be present over the majority of the study area. Recorded a short distance outside the study area.	**Yes**
Genoplesium baueri Bauer's Midge Orchid	TSC Act – V ROTAP – 3RC-	Grows in sparse sclerophyll forest and moss gardens over sandstone.	**Unlikely** No suitable habitat was considered to be present for this orchid species. No local records exist for this species.	**No**
Phaius australis Lesser Swamp Orchid	TSC Act - E EPBC Act – E ROTAP – 3VCa	Swampy grassland or swampy forest including rainforest, eucalypt or paperbark forest, mostly in coastal areas. Occurs in Queensland and north-east NSW as far south as Coffs Harbour. Historically, it extended farther south, to Port Macquarie.	**Unlikely** Suitable habitat was present within the two areas of Swamp Sclerophyll Forest. However, the study area occurs well south of known distribution of the orchid	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			species.	
Rhizanthella slateri Eastern Underground Orchid	TSC Act - E EPBC Act – E ROTAP – 3KC-	Habitat requirements are poorly understood and no particular vegetation type has been associated with this species, although it is known to occur in sclerophyll forest. This species is highly cryptic as it grows almost completely below the soil. It flowers from September to November. This orchid species has not been recorded on the Tomaree Peninsula. The nearest known local record of this species is Bulahdelah (Jones, 2006).	**Low** Only marginal habitat was present.	**Yes**
Pterostylis chaetophora Taree Rustyhood	TSC Act-V	The preferred habitat is seasonally moist, dry sclerophyll forest with a grass and shrub understorey. In NSW, it is currently known from 18 scattered locations in a relatively small area between Taree and Kurri Kurri, extending to the south-east towards Tea Gardens and west into the Upper Hunter, with additional records near Denman and Wingen. This species has also been recorded near Grahamstown Dam near Medowie (Pers.com. Steve Lewer OEH).	**Low** Suitable habitat was found to be present over a large portion of the study area containing Dry Sclerophyll Forest.	**Yes**
Grevillea parviflora subsp. *parviflora* Small-flowered Grevillea	TSC Act-V EPBC Act-V	This species of Grevillea occurs in light clayey soils in woodlands. This species grows chiefly in south-western Sydney. Disjunct populations occur near Cessnock, Putty and Cooranbong (Fairley, 2004). A record from Oyster Bay was present on the OEH BioNet database (OEH, 2017).	**Unlikely** No known soil types or associated flora species were present. The study area is not composed of older Pleistocene-aged sands.	**No**
Allocasuarina defungens Dwarf Heath Casuarina	TSC Act-E EPBC Act-E ROTAP – 2E	A small erect shrub occurring on sand in the Nabiac area and farther north in the NSW North Coast Region. Grows mainly in tall heath on sand, but can also occur on clay soils and sandstone (DEC, 2005). It is found in coastal areas of wet to dry, dense, low, closed heath land growing on Pleistocene-aged marine aeolian derived soils (Wilson & Johnson, 1989).	**Unlikely** The study area is not composed of Pleistocene-aged sands. The study area is also located outside the know distribution of this species.	**No**
Allocasuarina simulans *Nabiac Casuarina*	TSC Act-V EPBC Act-V	The Nabiac Casuarina is restricted to the mid-north coast of NSW, from Nabiac to Forster and is very rare. The Nabiac Casuarina grows in heathland on coastal sands.	**Unlikely** The study area is also located outside the know distribution of this species.	**No**
Angophora inopina Charmhaven Apple	TSC Act-V EPBC Act-V ROTAP – 2R-	Found in shallow sandy soils within open woodland/forest assemblages in co-dominant distribution with *Eucalyptus haemastoma* (Scribbly Gum), *Corymbia gummifera* (Red	**Unlikely** No associated woodland/forest assemblages were present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		Bloodwood) and *Eucalyptus capitellata* (Brown Stringybark), as well as within wet-dry heath, and swamp forest communities. The main occurrences of this species are in the Wyong and Lake Macquarie LGA. Disjunct populations have also been found south of Karuah in the Port Stephens LGA and north of Karuah in the Great Lakes LGA.		
Callistemon linearifolius Netted Bottle Brush	TSC Act-V ROTAP – 2RCi	Grows in dry sclerophyll forest on the coast and adjacent ranges from the Georges River to the Hawkesbury River in the Sydney area, and north to Nelson Bay. This species is known to occur within Stoney Ridge Reserve at Soldiers Point.	**Low** Suitable habitat was found to be present over a large portion of the study area containing Dry Sclerophyll Forest.	**Yes**
Eucalyptus camfieldii Camfield's Stringybark	TSC Act – V EPBC Act – V	Records from Tanilba Bay on Shrubby Wallum Heath on a ridge with sandy soil with *Corymbia gummifera* and *Eucalyptus piperita.*	**Unlikely** The site lacks Wallum Heath.	**No**
Eucalyptus glaucina Slaty Red Gum	TSC Act – V EPBC Act – V ROTAP – 3VCa	The Slaty Red Gum principally occurs in the Casino area in northern NSW and from Gloucester to Broke, in mid-northern NSW. It grows mostly on gentle slopes near drainage lines in alluvial and clayey soils, in open forest.	**Unlikely** No suitable habitat was present.	**No**
Eucalyptus parramattensis subsp. *decadens* Drooping Red Gum	TSC Act - V EPBC Act – V ROTAP – 2V	Occurs in woodland on sandy soils in wet sites. In the Port Stephens area, the Drooping Red Gum occurs in open wet sclerophyll woodland on heavy, often waterlogged, inter-barrier depression soils. This species is present within Mambo Swamp on the southern shore of Port Stephens.	**Low** Marginal habitat was considered to be present on lower areas of ground in the far north of the study area.	**Yes**
Melaleuca biconvexa Biconvex Paperbark	TSC Act - V	May occur in dense stands adjacent to watercourses, in association with other *Melaleuca* species or as an understorey species in wet forest.	**Low** No suitable habitat was considered to be present. No nearly local records.	**Yes**
Melaleuca groveana Grove's Paperbark	TSC Act-V ROTAP – 3RC-	This species is generally found in north eastern NSW and South East Queensland in heath, often in exposed sites and mainly at higher altitude. In Tomaree National Park, *Melaleuca groveana* occurs in closed heath communities on rhyodacite volcanic rock.	**Unlikely** The study area lacked associated geology, soil and vegetation types.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Syzygium paniculatum Magenta Lilly Pilly	TSC Act - E EPBC Act – V ROTAP 3VCi	Occurs in coastal rainforests on sandy soils or stabilised coastal dunes from Jervis Bay to Bulahdelah in NSW.	**Low** Suitable habitat was considered to be present in the more sheltered areas of sclerophyll forest.	**Yes**
Tetratheca juncea Black-eyed Susan	TSC Act-V EPBC Act-V ROTAP - 3VCa	Heath and Dry Sclerophyll Forests on low nutrient soil with a dense understorey of grasses. Is most commonly found associated with species including, *Angophora costata* (Smooth-barked Apple), *Eucalyptus globoidea* (White Stringybark), *Corymbia gummifera* (Red Bloodwood) and *Acacia myrtifolia* (Myrtle Wattle).	**Unlikely** The study area lacked associated soil and vegetation types. No nearby local records (OEH, 2017).	**No**
Prostanthera densa Villous Mintbush	TSC Act - V EPBC Act – V ROTAP – 3VC-	This species is known to occur on clay soils on volcanic hills and on sandy soils occurring as a shallow mantle over volcanic hills. It has been reported generally from sclerophyll forest and shrubland on coastal headlands and near-coastal ranges, chiefly on sandstone. The closest records are likely to occur on Gang Gang Hill, Nelson Bay well to the north of the study area.	**Unlikely** The study area lacked associated geology, soil and vegetation types.	**No**
Asperula asthenes Trailing Woodruff	TSC Act - V ROTAP – 3VC-	Damp Sites, often along riverbanks (DEC, 2006). The major portion of the distribution of this species occurs in the Great Lakes LGA. Populations are known from North Karuah and The Branch areas (Great Lakes Council, 2003).	**Unlikely** The study area lacked associated drainage lines and vegetation types.	**No**
Galium australe Tangled Bedstraw	TSC Act-E	Found in moist gullies of tall forest, *Eucalyptus tereticornis* (Forest Red Gum) forest, coastal Banksia shrubland, and *Allocasuarina nana* heathland.	**Unlikely** This species is unlikely to be present due to the lack of associated vegetation and local records.	**No**
Lindernia alsinoides Noah's False Chickweed	TSC Act-E	Grows in swampy sites in sclerophyll forests and coastal heath.	**Low** Suitable habitat was considered to be present in the south of the study area on the edges of the Swamp Mahogany/Paperbark Forest assemblage. The study area would be considered to be	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			south of the known distribution of this species.	
Chamaesyce psammogeton Sand Spurge	TSC Act-E	This prostrate perennial herb grows on foredunes and exposed sites on headlands.	**Unlikely** No suitable habitat was present.	**No**
Senecio spathulatus Coastal Fireweed	TSC Act-E	Confined to areas of unstabilised sand on coastal dunes.	**Unlikely** No suitable habitat was present.	**No**
Streblus pendulinus Siah's Backbone	EPBC Act - E	Siah's Backbone is found in warmer rainforests, chiefly along watercourses. The altitudinal range is from near sea level to 800 m above sea level. The species grows in well-developed rainforest, gallery forest and drier, more seasonal rainforest.	**Unlikely** No suitable habitat was present.	**No**
Maundia triglochinoides	TSC Act - V	Grows in swamps, creeks or shallow freshwater 30-60cm deep on heavy clay with low nutrients. Is known to occur within drainage channels around Williamtown to the south of the study area.	**Low** The area of wetland contains suitable habitat.	**Yes**
Cynanchum elegans White-flowered Wax Plant	TSC Act – E1 EPBC Act – E ROTAP 3ECi	This species occurs in scattered coastal localities from the QLD-NSW border south to Wollongong. Found in dry, littoral or subtropical rainforest, and occasionally in scrub and woodland from sea level to about 600m ASL. Records are known from Ash Island, Kooragang Wetlands.	**Low** Marginal habitat would be confined to the more sheltered areas of the study area.	**Yes**
Persicaria elatior Tall Knotweed	TSC Act - V EPBC Act – V ROTAP – 3V	Grows in damp sites, especially beside streams, lakes, margins of dams and occasionally in swamp forest.	**Low** Habitat was considered to be present within the lower lying areas of ground containing wetland in the north of the study area. The occurrence of this species is marginalised by the lack of nearby local records.	**Yes**
Zannichellia palustris	TSC Act-E1	Grows in fresh or slightly saline stationary or slowly flowing water.	**Low** Habitat was considered to be present within the lower lying areas of ground containing	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			wetland in the north of the study area. The occurrence of this species is marginalised by the lack of nearby local records.	
Petalura gigantea Giant Dragonfly	TSC Act-E	Permanent wetlands both coastal and upland. Larvae occupy permanent long chambered burrows built under swamps. According to the OEH database this Dragonfly has been recorded within Mambo Swamp on the southern side of Port Stephens in 2006 (OEH, 2017).	**Low-Moderate** Swamps and wetland within the study area contain suitable habitat for this Dragonfly species.	**Yes**
Crinia tinnula Wallum Froglet	TSC Act-V	Shallow acid swamps (temporary / semi-permanent) and associated connecting channels and deeper water holes (permanent) consisting of hard-leafed heaths, shrubs and woodland on coastal plains and dunes and associated sedgelands and swamps in low lying areas collectively known as wallum.	**Moderate** Suitable habitat was found to occur within the area of wetland and swamp forest within the north of the study area.	**Yes**
Uperoleia mahonyi Mahony's Toadlet	TSC Act-E	Inhabits ephemeral and semi-permanent swamps and swales on the coastal fringe of its range. Records occur in heath or wallum habitats almost exclusively associated with leached (highly nutrient impoverished) white sand. This species has also been recorded on more recent Holocene Dunes (Dr Simon Clulow *pers.com*). Commonly associated with acid paperbark swamps, is also known to occur in wallum heath, swamp mahogany-paperbark swamp forest, heath shrubland and Sydney red gum woodland. Recent studies suggest intact vegetation adjacent to and within water bodies is an important habitat feature for this species. Endemic to the mid-north coast of New South Wales (NSW) and to date has been found between Kangy Angy and Seal Rocks.	**High** Suitable habitat was found to occur within the area of wetland and swamp forest within the north of the study area.	**Yes**
Litoria aurea Green and Golden Bell Frog	TSC Act-E EPBC Act-E	This frog species inhabits swamps, lagoons, streams and ponds as well as dams, drains and storm water basins.	**Low** Suitable habitat was found to occur within the area of lower lying wetland within the north of the study area. No nearby local records (OEH, 2017).	**Yes**
Litoria brevipalmata	TSC Act-V	Open Forest, rainforest bordering cleared areas.	**Low**	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Green-thighed Frog			Only marginal habitat was present within the study area for this frog species. No nearby local records (OEH, 2017).	
Mixophyes balbus Stuttering Frog	TSC Act-V EPBC Act-V	Occurs in wet forest regions of south-eastern Queensland, Eastern NSW and Victoria. In late spring, eggs are deposited among leaf litter on the banks of streams and subsequently are washed into the water during heavy rain.	**Unlikely** No suitable habitat was present.	**No**
Mixophyes iteratus Great Barred Frog	TSC Act-E EPBC Act-E	Occurs on forest slopes of the Great Dividing Range, generally between 20-800m A.S.L. It appears to prefer riparian vegetation or other moist vegetation communities, generally on rich organic soils. Deep leaf litter and/or thick cover is necessary for this species. Water quality must be of a high standard, and the species occurs in 1st to 3rd order streams (i.e. 'young' streams), and is absent from ponds and ephemeral pools. Graded banks with undercuts and steep edges are favourable haunts of this frog.	**Unlikely** No suitable habitat was present.	**No**
Caretta caretta Loggerhead Turtle	TSC Act-E EPBC Act-E	Ocean dwellers foraging in deeper water for fish, jellyfish and bottom dwelling animals. The female comes ashore to layer her eggs in a hole dug on the beach in tropical regions during the warmer months.	**Unlikely** No habitat was present.	**No**
Chelonia mydas Green Turtle	TSC Act-V EPBC Act-V	Occurs in shallow seas where there is sufficient light to ensure an abundant growth of marine grasses. When resting this species searches out an appropriate rest area i.e. rock overhang, rocky pothole, which gives some protection from predators.	**Unlikely** No habitat was present.	**No**
Dermochelys coriacea Leatherback Turtle	TSC Act-V EPBC Act-E	The Leatherback Turtle is a pelagic feeder, found in tropical, subtropical and temperate waters throughout the world. It has been recorded feeding in the coastal waters of all Australian States.	**Unlikely** No habitat was present.	**No**
Eretmochelys imbricata Hawksbill Turtle	EPBC Act-V	Hawksbill turtles typically occur in tidal and sub-tidal coral and rocky reef habitats throughout tropical waters, extending into warm temperate areas as far south as northern New South Wales.	**Unlikely** No habitat was present.	**No**
Natator depressus Flatback Turtle	EPBC Act-V	Although found in open seas, they prefer inshore waters and bays where their feeding ground is the shallow, soft-bottomed seabed.	**Unlikely** No habitat was present.	**No**
Hoplocephalus bitorquatus Pale-headed Snake	TSC Act-V	Rainforest to the drier sclerophyll forests.	**Low** Suitable habitat was considered	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			to be present within the study area. There was a lack of local records for this species (OEH, 2017).	
Hoplocephalus stephensii Stephen's Banded Snake	TSC Act-V	Partly arboreal found in wet sclerophyll forest or rainforest.	**Low** Suitable habitat was considered to be present within the study area. There was a lack of local records for this species (OEH, 2017).	**Yes**
Macronectes giganteus Southern Giant Petrel	TSC Act – E EPBC Act-E	The Southern Giant Petrel ranges from deep circumpolar waters from Antarctica across the entire length of the New South Wales coast.	**Unlikely** No suitable habitat was present.	**No**
Macronectes halli Northern Giant Petrel	TSC Act - E	Inhabits subtropical waters in winter and early spring. Potential foraging resources in N.S.W. are regarded as significant during the winter months although representing a small proportion of the total foraging area for this species.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma leucoptera leucoptera Gould's Petrel	TSC Act - E	Lives pelagic life, nests on Cabbage Tree Island.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma neglecta Kermadec Petrel	TSC Act-V	It is a pelagic species inhabiting the subtropical and tropical waters of the Pacific Ocean, rarely reaching mainland.	**Unlikely** No suitable habitat was present.	**No**
Pterodroma nigripennis Black-winged Petrel	TSC Act-V	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Pterodroma solandri Providence Petrel	TSC Act-V	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Calonectris leucomelas Streaked Shearwater	EPBC-Migratory	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Ardenna carneipes Flesh-footed Shearwater	TSC Act-V	Lives pelagic life, nests on Lord Howe Island.	**Unlikely** No suitable habitat was present.	**No**
Puffinus tenuirostris Short-tailed Shearwater	EPBC-Migratory	Pelagic species	**Unlikely** No suitable habitat was present.	**No**
Limicola falcinellus Broad-billed Sandpiper	TSC Act-V	Habitat utilised by this species includes tidal mudflats, reefs, salt marshes, freshwater wetlands and sewage farms. Favours muddy	**Unlikely** No suitable habitat was present.	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		ooze.		
Limosa lapponica Bar-tailed Godwit	EPBC-Migratory	Tidal mudflats, estuaries, sewerage ponds, shallow river margins, brackish or saline inland lakes and flooded pastures (Pizzey & Knight, 2001).	**Unlikely** No suitable habitat was present.	**No**
Limosa limosa Black-tailed Godwit	TSC Act-V	Habitat utilised by this species includes tidal mudflats, river edges, sandy beaches, brackish swamps as well as the shallows of lakes, reservoirs and sewage farms.	**Unlikely** No suitable habitat was present.	**No**
Arenaria interpres Ruddy Turnstone	EPBC-Migratory	Tidal reefs and pools; weed-covered rocks; pebbly, shelly and sandy shores with stranded seaweed; mudflats; occasionally inland shallow waters; sewage ponds and open or ploughed ground.	**Unlikely** No suitable habitat was present.	**No**
Xenus cinereus Terek Sandpiper	TSC Act-V	Tidal Mudflats, estuaries, shores, reefs and coastal swamps.	**Unlikely** No suitable habitat was present.	**No**
Heteroscelus brevipes Grey-tailed Tattler	EPBC-Migratory	Estuaries, tidal mudflats, mangroves, wave-washed rocks, and reefs; shallow river margins, coastal and inland.	**Unlikely** No suitable habitat was present.	**No**
Sterna albifrons Little Tern	TSC Act - E	Little Terns nest only on or near the coast in N.S.W. The typical features of the nesting area are a sandy substrate, flat or gently sloping topography, abundant shells and pebbles and little vegetation.	**Unlikely** No suitable habitat was present.	**No**
Sterna fuscata Sooty Tern	TSC Act-V	A pelagic species, does not nest in the area.	**Unlikely** No suitable habitat was present.	**No**
Actitis hypoleucos Common Sandpiper	EPBC-Migratory	Shallow pebbly, muddy or sandy edges of rivers and streams, coastal and inland; dams, lakes, sewage ponds, margins of tidal rivers, waterways in mangroves or saltmarsh; mudflats; rocky or sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Calidris acuminata Sharp-tailed Sandpiper	EPBC-Migratory	Tidal mudflats, saltmarshes, mangroves; shallow fresh, brackish or saline inland wetlands; sewage ponds and irrigated pastures.	**Unlikely** No suitable habitat was present.	**No**
Calidris canutus Red Knot	EPBC-Migratory	Tidal mudflats, sandflats, beaches, saltmarshes, flooded pastures, ploughed lands.	**Unlikely** No suitable habitat was present.	**No**
Calidris ferruginea Curlew Sandpiper	TSC Act-E EPBC-Migratory	Tidal mudflats; saltmarsh; fresh, brackish or saline wetlands; sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Calidris ruficollis Red-necked Stint	EPBC-Migratory	Tidal mudflats; saltmarsh; fresh, brackish or saline wetlands; sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Calidris tenuirostris Great Knot	TSC Act-V	Inhabits beaches, coastal mudflats, bay shores, estuarine environments; sometimes freshwater wetlands.	**Unlikely** No suitable habitat was present.	**No**

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Tringa stagnatilis Marsh Sandpiper	EPBC-Migratory	Salt; fresh, brackish or saline wetlands; sewage ponds, mangroves, tidal flats and estuaries.	**Unlikely** No suitable habitat was present.	**No**
Numenius madagascariensis Eastern Curlew	EPBC-Migratory	Estuaries, tidal mudflats, sandspits, saltmarshes, mangroves; occasionally fresh or brackish lakes.	**Unlikely** No suitable habitat was present.	**No**
Numenius minutus Little Curlew	EPBC-Migratory	Dry grasslands, floodplains, margins of drying swamps; tidal mudflats, crops and sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Numenius phaeopus Whimbrel	EPBC-Migratory	Estuaries, tidal flats, coral cays, exposed reefs, flooded paddocks, sewage ponds and lawns.	**Unlikely** No suitable habitat was present.	**No**
Charadrius bicinctus Double-banded Plover	EPBC-Migratory	Wide beaches, tidal mudflats, saltmarsh, sparsely vegetated margins of shallow saline and freshwater.	**Unlikely** No suitable habitat was present.	**No**
Charadrius leschenaultii Greater Sand-plover	TSC Act-V	Inhabits sheltered bays, harbours and estuaries with large intertidal sandflats mudflats or bare paddocks.	**Unlikely** No suitable habitat was present.	**No**
Charadrius mongolus Lesser Sand-plover	TSC Act-V	Inhabits sheltered bays, harbours and estuaries with large intertidal sandflats or mudflats.	**Unlikely** No suitable habitat was present.	**No**
Pluvialis fulva Pacific Golden Plover	EPBC-Migratory	Estuaries, tidal mudflats, saltmarshes, mangroves; rocky reefs, margins of shallow open inland swamps, sewage ponds.	**Unlikely** No suitable habitat was present.	**No**
Pluvialis squatarola Grey Plover	EPBC-Migratory	Mudflats, saltmarsh, tidal reefs and estuaries.	**Unlikely** No suitable habitat was present.	**No**
Diomedea antipodensis Antipodeam Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Diomedea gibsoni Gibson's Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche bulleri Buller's Albatross	EPBC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta cauta Shy Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta salvini Salvin's Albatross	EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche cauta steadi White-capped Albatross	TSC Act-V EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**
Thalassarche melanophris impavida Campbell Albatross	EPBC Act-V & M	Lives a pelagic life.	**Unlikely** No suitable habitat was present.	**No**

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Haematopus fuliginosus Sooty Oystercatcher	TSC Act-V	Prefer rocky intertidal shorelines and sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Haematopus longirostris Pied Oystercatcher	TSC Act-E	Prefer rocky intertidal shorelines and sandy beaches.	**Unlikely** No suitable habitat was present.	**No**
Esacus neglectus Beach Stone-Curlew	TSC Act–E4A	Inhabits undisturbed sandy beaches, especially those with extensive mangrove-backed sandflats, mudflats or reefs exposed at low tide. It has also been recorded utilising cane fields that are located in proximity to tidal areas.	**Unlikely** No suitable habitat was present.	**No**
Gallinago hardwickii Latham's Snipe	EPBC Act-M	Utilises a variety of habitats, such as soft wet ground or shallow water with tussock and other green and dead vegetation, and scrub or open wetland from sea-level to alpine bogs (Pizzey & Knight, 2001).	**Low** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Rostratula benghalensis australis Australian Painted Snipe	TSC Act-E EPBC Act-V & M	Margins of swamps and streams, chiefly those covered with low and stunted vegetation.	**Low** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Botaurus poiciloptilus Australasian Bittern	TSC Act-E EPBC Act-E	Favours permanent fresh-waters dominated by sedges, rushes, reeds or cutting grasses (eg. Phragmites, Scirpus, Eleocharis, Juncus, Typha, Baumea and Gahnia).	**Low - Moderate** Suitable habitat was present within areas of freshwater wetlands in the north of the study area.	**Yes**
Ixobrychus flavicollis Black Bittern	TSC Act-V	Near water in mangroves and other trees, often forming only a narrow fringe of cover.	**Low** Suitable habitat was present around areas of freshwater wetlands in the east of the study area.	**Yes**
Ardea alba Great Egret	EPBC Act-M	Inhabits shallows of rivers, larger dams, freshwater wetlands and irrigation areas.	**Low - Moderate** Suitable habitat was present around areas of freshwater wetlands in the east of the study area.	**Yes**
Ardea ibis	EPBC Act-M	Inhabits stock paddocks, pastures, croplands, wetlands and drains.	**High – Recorded within the**	**No – Not listed**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Cattle Egret			**study area.** Suitable habitat was present for this species within the area of pasture/Grassland in the north of the study area.	**under TSC Act. Assessed in Section 11.**
Ephippiorhynchus asiaticus Black-necked Stork	TSC Act-E	Inhabits swamps associated with river systems and large permanent pools but sometimes appears on the coast or in estuaries. It has also been recorded on farm dams and sewage treatment ponds.	**Unlikely** No habitat was considered to be present due to the lack of larger areas of permanent waterbodies.	**No**
Irediparra gallinacea Comb-crested Jacana	TSC Act-V	Inhabits mostly deep permanent freshwater wetlands, which are abundant with floating aquatic vegetation that forms dense mats or rafts on the surface of the water (eg. *Nymphaeaceae, Myriophyllum lacifolium, Marsilea* and *Riccia*).	**Unlikely** No habitat was considered to be present due to the lack of deep freshwater and floating aquatic vegetation.	**No**
Turnix maculosa Red-backed Button-quail	TSC Act-V	Grasses, sedges near water, grassy woodlands, rainforest edges; black soil plains, spinifex, cereal crops and gardens.	**Unlikely** Study area occurs below the known distribution of this species.	**No**
Burhinus grallarius Bush Stone-curlew	TSC Act-E	This species inhabits dry open forest and woodland with an open grassy understorey that has not been overgrazed. It prefers woodland with many fallen branches where it roosts during the day. It has also been known to utilise coastal scrub, mangrove fringes, golf courses and plantations. This species has been recorded within the adjoining property (Lot 3) to the east (NPWS, 2011).	**Low-moderate** Suitable habitat was present for this species within the more open areas of woodland.	**Yes**
Ptilinopus magnificus Wompoo Fruit-Dove	TSC Act-V	This frugivorous Rainforest specialist inhabits the canopy of Sub-tropical, Warm-temperate and Littoral Rainforests. Favoured feed trees include Figs, Laurels, Myrtles and native Tamarind. The females lay one egg on a flimsy platform of vine tendrils on a slender horizontal branch.	**Low** Areas of secondary habitat were present within the study area.	**Yes**
Ptilinopus regina Rose Crowned Fruit-dove	TSC Act-V	Inhabits rainforest, though it also frequents nearby drier forests as well as mangroves. It usually feeds on Figs or other fruit and berry-bearing trees.	**Low** Areas of secondary habitat were present within the study area.	**Yes**
Ptilinopus superbus Superb Fruit Dove	TSC Act-V	Lives mainly in Rainforest but will feed in adjacent Mangroves or Eucalypt forest, venturing into coastal habitats. The nest is a platform	**Low** Areas of secondary habitat were	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		built in a small tree on a horizontal fork situated in Open Forest at the edge of scrub.	present within the study area.	
Lathamus discolor Swift Parrot	TSC Act-E EPBC Act- Crit-E & M	Open Forest to Woodland, also street trees and in parks and gardens, winter flowering eucalypts for feeding. This species nests in Tasmania during the summer months.	**Low – Moderate** Suitable foraging habitat was present in the form of winter flowering species particularly *Eucalyptus robusta* (Swamp Mahogany).	**Yes**
Neophema pulchella Turquoise Parrot	TSC Act-V	Lives on the edges of Eucalypt woodland adjoining clearings and on timbered ridges and creeks in farmland. It has also been recorded utilising roadside verges and orchards. Nests in small hollow branches of Eucalypts.	**Low** Only marginal habitat was considered to be present within the study area. This parrot would be an infrequent visitor to the local area.	**Yes**
Glossopsitta pusilla Little Lorikeet	TSC Act-V	Tall Open Forests, woodlands, orchards, parks and street trees.	**High – recorded on site.** Suitable foraging and nesting habitat was considered to be present over much of the study area.	**Yes**
Calyptorhynchus lathami Glossy Black-Cockatoo	TSC Act-V	Lowland coastal forests, dense mountain forests, semi-arid woodland and trees bordering watercourses, with (Allo)Casuarina trees for foraging.	**Low** Only marginal transitory habitat is present within the study area. A small number of *Casuarina glauca* (Swamp Oak) trees a suitable foraging species was present.	**Yes**
Callocephalon fimbriatum Gang-gang Cockatoo	TSC Act-V	Tall montane forests and woodlands in mature wet sclerophyll forests. Requires hollows in which to breed between October and January. This Cockatoo species would be an infrequent visitor to the local area.	**Low** Suitable foraging habitat was present. This species is unlikely to nest within the local area.	**Yes**
Apus pacificus Fork-tailed Swift	EPBC Act-M	Inhabits the airspace over open country from semi deserts to coasts.	**Moderate** Due to the non-specific habitat requirements habitat was present	**No**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			within airspace above the study area.	
Hirundapus caudacutus White-throated Needletail	EPBC Act-M	Inhabits the airspace above forests, woodlands, farmlands, plains, lakes, coasts and towns.	**Moderate** Due to the non-specific habitat requirements habitat was present within airspace above the study area.	**No**
Monarcha melanopsis Black-faced Monarch	EPBC Act-M	Utilises a range of habitats including rainforests, eucalypt woodlands, coastal scrubs (Pizzey & Knight, 2001).	**Low-Moderate** Suitable habitat was present over the majority of the study area.	**No**
Monarcha trivirgatus Spectacled Monarch	EPBC Act-M	Wet forests, thickly wooded gullies, waterside vegetation and mangroves.	**Moderate** Suitable habitat was present within more thickly wooded parts of the study area.	**No**
Merops ornatus Rainbow Bee-eater	EPBC Act-M	Inhabits areas such as open woodlands with sandy soils, sand ridges, riverbanks, beaches, dunes, cliffs and rainforests.	**Low-Moderate** Suitable foraging habitat was present over the majority of the study area. No preferred nesting habitat was present.	**No**
Rhipidura rufifrons Rufous Fantail	EPBC Act-M	Utilises a range of habitats including rainforests, wet sclerophyll forests, monsoon forests, scrubs, mangroves, watercourses, parks and gardens. During migration this species also utilises farms, street trees and buildings (Pizzey & Knight, 2001).	**High – recorded within study area.** Suitable foraging and nesting habitat was considered to be present.	**No**
Epthianura albifrons White-fronted Chat	TSC Act-V	Occurs mostly in the southern half of NSW, occurring in damp open habitats along the coast, and near waterways in the western part of the state	**Low** Marginal habitat was present within the north of the study area.	**Yes**
Petroica boodang Scarlet Robin	TSC Act-V	The Scarlet Robin breeds in drier eucalypt forests and temperate woodlands, often on ridges and slopes, within an open understorey of shrubs and grasses and sometimes in open areas. Abundant logs and coarse woody debris are important structural components of its	**Low** Only marginal habitat was considered to be present within areas of open forest. This	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		habitat. In autumn and winter it migrates to more open habitats such as grassy open woodland or paddocks with scattered trees.	species is more commonly found inland from the coast.	
Petroica phoenicea Flame Robin	TSC Act-V	Breeds in upland tall moist eucalypt forests and woodlands, often on ridges and slopes and prefers clearings or areas with open understoreys. In winter, birds migrate to drier more open habitats in the lowlands including dry forests, open woodlands and in pastures and native grasslands, with or without scattered trees.	**Low** Only marginal habitat was considered to be present within areas of open forest. This species is more commonly found inland from the coast.	**Yes**
Climacteris picumnus victoriae Brown Treecreeper	TSC Act-V	Occupies Eucalypt woodlands, particularly open woodlands lacking a dense understorey, River Red Gums on watercourses and around lakeshores. It is sedentary and nests in tree hollows within permanent territories.	**Unlikely** This Treecreeper species is more commonly found inland from the coast and would be unlikely to be present within the study area.	**No**
Anthochaera phrygia Regent Honeyeater	TSC Act-Crit-E EPBC Act- Crit-E & M	Temperate woodlands and open forest, including forest edges, preferring to forage on large-flowered Eucalypts. Was recorded in June 2014 feeding on flowering specimens of *Eucalyptus robusta* (Swamp Mahogany) at Tanilba Bay Sailing Club (Port Stephens Examiner, 2014).	**Low-Moderate** Suitable foraging habitat was present in the form of flowering myrtaceous species particularly the winter flowering *Eucalyptus robusta* (Swamp Mahogany).	**Yes**
Daphoenositta chrysoptera Varied Sittella	TSC Act-V	Open eucalypt woodland/forest, mallee, inland acacia, coastal tea-tree scrubs, golf courses, orchards and parks.	**High** Suitable foraging habitat and nesting habitat was present.	**Yes**
Melithreptus gularis gularis Black-chinned Honeyeater	TSC Act-V	Usually found on the western side of the Great Dividing Range in dry sclerophyll forests and woodlands containing box-ironbark associations and River Red Gum. In the Hunter Valley this species is known to utilise drier coastal woodlands. Usually found in open woodlands.	**Low** Only marginal habitat was considered to be present for this woodland bird.	**Yes**
Pomatostomus temporalis temporalis Grey-crowned Babbler	TSC Act-V	Open forest, woodland, scrubland, farmland and outer suburbs. Prefers woodlands with regenerating trees, tall shrubs, and an intact ground cover of grass and forbs. One old record from 1978 exists within the Worimi Conservation Areas in the vicinity of	**Low** Marginal habitat occurs within the cleared grassy area with scattered trees in the far north-	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
		Boyces Track.	east of the study area.	
Dasyornis brachypterus Eastern Bristlebird	TSC Act-E EPBC Act-E	Habitat is characterised by dense, low vegetation including heath and open woodland with a heathy understorey; in northern NSW occurs in open forest with tussocky grass understorey.	**Unlikely** No known local records.	**No**
Circus assimilis Spotted Harrier	TSC Act-V	Occurs throughout the Australian mainland, except in densely forested or wooded habitats of the coast, escarpment and ranges. Occurs in grassy open woodland including acacia and mallee remnants, inland riparian woodland, grassland and shrub steppe. It is found most commonly in native grassland, but also occurs in agricultural land, foraging over open habitats including edges of inland wetlands.	**Unlikely** This species is not usually associated with forested habitat of the coast.	**No**
Pandion cristatus Eastern Osprey	TSC Act-V	Open and swamp forest adjacent to the coast or estuaries, fishing mainly in brackish or salt water. This species is known to inhabit the Port Stephens area.	**Low** Hunting habitat was absent. Large trees within the study area may provide suitable nesting habitat.	**Yes**
Lophoictinia isura Square-tailed Kite	TSC Act-V	The Square-tailed Kite inhabits Open Forests and Woodlands, particularly those on fertile soils with abundant passerines. They may also range into nearby open habitats but not into extensive treeless regions.	**Moderate** Due to the generalist habitat requirements of this species habitat was considered to be present.	**Yes**
Erythrotriorchis radiatus Red Goshawk	TSC Act-E4A EPBC Act - V	In NSW, preferred habitats include mixed subtropical rainforest, *Melaleuca* swamp forest and riparian *Eucalyptus* forest of coastal rivers.	**Low** Suitable habitat was present.	**Yes**
Hieraaetus morphnoides Little Eagle	TSC Act-V	The Little Eagle occupies habitats rich in prey within open eucalypt forest, woodland or open woodland. Sheoak or acacia woodlands and riparian woodlands of interior NSW are also used (Marchant and Higgins 1993; Aumann 2001a). For nest sites it requires a tall living tree within a remnant patch, where pairs build a large stick nest in winter and lay in early spring.	**Moderate** Due to the generalist requirements of this species habitat was considered to be present within the site.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Haliaeetus leucogaster White-bellied Sea Eagle	TSC Act-V EPBC Act-M	Occupies habitat characterised by the presence of large areas of open water and feeds opportunistically on a variety of fish, birds, reptiles, mammals and crustaceans. The nests are built in a variety of sites including tall trees, bushes, mangroves, cliffs, rocky outcrops, caves, crevices, on the ground or even in artificial structures.	**High – Recorded flying over study area.** Nesting habitat was present. No preferred hunting habitat was present.	**Yes**
Ninox connivens Barking Owl	TSC Act-V	This species is found in forest and woodland, encountered most commonly in savanna and paperbark woodlands. It sometimes roosts in rainforests, but it requires the more open country for hunting and hollow Eucalypts for breeding.	**Moderate** Suitable hunting and limited roosting habitat was present within the study area.	**Yes**
Ninox strenua Powerful Owl	TSC Act-V	Inhabits a wide range of vegetation types from wet Eucalypt forests with a Rainforest understorey to Dry Open Forests and Woodlands. The species has been recorded utilising disturbed habitats such as exotic pine plantations and large trees in parks and gardens. Powerful Owls nest in a slight depression in the wood-mould on the base of a cavity in a large old tree, sometimes in excess of 25 metres above the ground.	**High – Likely pellet found within the study area.** Suitable hunting, roosting and nesting habitat was present.	**Yes**
Tyto longimembris Eastern Grass Owl	TSC Act-V	This species roost and nest on the ground, in crops or in thick grass tussock often associated with swamps.	**Low** Marginal hunting and roosting habitat was present in the north of the study area.	**Yes**
Tyto novaehollandiae Masked Owl	TSC Act-V	A range of wooded habitats that contain mature trees with large hollows for roosting and nesting, and more open areas for hunting.	**Moderate-High** Suitable hunting, roosting and nesting habitat was present.	**Yes**
Tyto tenebricosa Sooty Owl	TSC Act-V	Prefers dense dimly-lit forests, inhabiting pockets of rainforest and wet sclerophyll forest mainly in mountainous areas, often in south-east facing gullies.	**Unlikely** Due to the lack of rainforest and tall wet sclerophyll forest the Sooty Owl would be considered unlikely to be present.	**No**
Planigale maculata Common Planigale	TSC Act-V	In NSW it is found along the coastal strip, occupying a variety of habitats ranging from rainforest, wet and dry sclerophyll forests to grasslands, marshlands and rocky areas.	**Low** Suitable habitat was present within the study area. Few records for this species are known from the locality.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Dasyurus maculatus maculatus Tiger Quoll	TSC Act-V	Inhabits sclerophyll forests, rainforests and coastal woodlands. Nests are made in rock caves and hollow logs or trees, and basking sites are usually found nearby.	**Moderate - High** Suitable habitat was present over a large portion of the study area.	**Yes**
Phascogale tapoatafa Brush-tailed Phascogale	TSC Act-V	Sparsely distributed outside the semi-arid zone in dry sclerophyll forest and monsoonal forest and woodland.	**Low** Foraging and nesting habitat was present over much of the study area. Locally this species prefers rough barked (Woodland containing Ironbark species).	**Yes**
Phascolarctos cinereus Koala	TSC Act-V EPBC Act – V (NSW & Qld)	Coastal woodland and open forest containing suitable food trees.	**High – Some evidence of Koala activity.** Preferred feed tree, *Eucalyptus robusta* (Swamp Mahogany) was present within the north of the study area.	**Yes**
Macropus parma Parma Wallaby	TSC Act-V	Preferred habitat is moist eucalypt forest with thick, shrubby understorey, often with nearby grassy areas, rainforest margins and occasionally drier eucalypt forest.	**Unlikely** Suitable habitat was considered to be present, however due to the lack of local records this species would be unlikely to be present.	**No**
Petrogale penicillata Brush-tailed Rock-wallaby	TSC Act – E1 EPBC Act – E	Found in steep rocky sites in sclerophyll forests with a grassy understorey.	**Unlikely** No suitable habitat was present.	**No**
Aepyprymnus rufescens Rufous Bettong	TSC Act-V	Occupies a variety of habitats ranging from coastal Eucalypt forests to tall Wet Sclerophyll Forests along the east coast of Australia. West of the Great Dividing Range it occupies Low Open Woodland. It tends to favour those areas where there is a sparse or grassy understorey.	**Low** Suitable habitat was considered to be present. Due to the absence of local records the occurrence of this species would be low.	**Yes**
Potorous tridactylus tridactylus Long-nosed Potoroo	TSC Act-V	This species is known from a variety of habitats, including Rainforest, Open Forests and Woodlands with dense groundcover, and dense, wet coastal heathlands. Soft (often sandy) substrates are preferred by this species.	**Low - Moderate** Suitable habitat was available within the study area. Records known from Williamtown (RPS Harper Somers O'Sullivan,	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
			2009).	
Cercartetus nanus Eastern Pygmy-possum	TSC Act-V	Feeds mostly on the pollen and nectar from banksias, eucalypts and understorey plants and will also eat insects, seeds and fruit. Hollow bearing trees are favoured for shelter and nesting although spherical nests constructed of short shredded bark have been found between the wood and bark of eucalypts. This species has been recorded north of Fern Bay within Coastal Sand Blackbutt Forest (Umwelt, 2004).	**Low - Moderate** Foraging and nesting habitat was present.	**Yes**
Petaurus australis Yellow-Bellied Glider	TSC Act-V	This species occupies tall, mature wet eucalypt forest.	**Low** Foraging and nesting habitat was present. No known local records.	**Yes**
Petaurus norfolcensis Squirrel Glider	TSC Act-V	Dry sclerophyll forests and woodlands with exudates for foraging and hollows for nesting.	**High – Recorded within Study Area.** Foraging and nesting habitat was present over a large portion of the study area.	**Yes**
Pseudomys gracilicaudatus Eastern Chestnut Mouse	TSC Act-V	Found in heathland, wet heathland and swamps.	**Low** Only marginal habitat was present. No known local records.	**Yes**
Psuedomys novaehollandiae New Holland Mouse	EPBC Act – E	Known to inhabit open heathlands, open woodlands with a heathland understorey and vegetated sand dunes.	**Moderate - High** Suitable habitat was present within the more open sandy vegetated parts of the study area.	**No – Not listed under TSC Act. Assessed in Section 11.**
Pteropus poliocephalus Grey-headed Flying-Fox	TSC Act-V EPBC Act-V	Wet and Dry Sclerophyll Forests, Rainforest, Mangroves and Paperbark swamps and Banksia Woodlands.	**High – Recorded within study area.** Seasonal foraging habitat was present over the majority of the study area. Roosting habitat was also likely to be present.	**Yes**
Syconycteris australis	TSC Act-V	Occurs within coastal areas of northeast NSW and eastern	**Low**	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Common Blossom-bat		Queensland. Often roost in littoral rainforest and feed on flowers in adjacent heathland and paperbark swamps. Has been recorded just north of Hawks Nest (Wildthing Environmental Consultants, 2012).	Suitable habitat was present within the study area. The study area would be considered to be outside the southern limit of the distribution of this species.	
Kerivoula papuensis Golden-tipped Bat	TSC Act-V	Found in rainforest and adjacent wet and dry sclerophyll forest up to 1000m. It is also recorded in tall open forest. This species roosts mainly in abandoned hanging Yellow-throated Scrubwren and Brown Gerygone nests, also in tree hollows, dense foliage and epiphytes; located in rainforest gullies on small first and second-order streams. There is a paucity of local record of this species.	**Low** Suitable hunting and roosting habitat was present.	**Yes**
Saccolaimus flaviventris Yellow-bellied Sheathtail-bat	TSC Act-V	This microchiropteran bat species occupies a range of habitats including eucalypt forests, Mallee or open country. Roosts in tree hollows, animal burrows, dry clay cracks, under rock slabs and in abandoned Sugar Glider nests.	**Moderate** Suitable hunting and roosting habitat was present.	**Yes**
Mormopterus norfolkensis East Coast Freetail-bat	TSC Act-V	This species appears to live in Sclerophyll Forests and Woodland. Roosts in tree hollows or under loose bark.	**High** Suitable hunting and roosting habitat was present.	**Yes**
Falsistrellus tasmaniensis Eastern False Pipistrelle	TSC Act-V	Inhabits sclerophyll forests from the Great Divide to the east coast. A preference has been noted for wet habitats where trees are more than 20m high. It has been observed roosting in holes and hollow trunks of Eucalypts.	**High – Recorded within the study area.** Suitable hunting and roosting habitat was present.	**Yes**
Miniopterus australis Little Bentwing-bat	TSC Act-V	Tropical Rainforest to warm-temperate Wet and Dry Sclerophyll Forest; caves or similar structures for roosting.	**High – recorded within the study area.** Suitable hunting habitat was present. The study area lacked preferred roosting habitat.	**Yes**
Miniopterus schreibersii oceanensis Large Bentwing-bat	TSC Act-V	Wet and Dry Tall Open Forest, Rainforest, Monsoon Forest, Open Woodland, Paperbark Forests and Open Grasslands; caves or similar structures for roosting. It occasionally uses tree hollows.	**High – recorded within the study area.** Suitable hunting habitat was present. No preferred roosting habitat was present.	**Yes**

SPECIES	STATUS	HABITAT DESCRIPTION AND LOCALLY KNOWN POPULATIONS	LIKELYHOOD OF OCCURRENCE WITHIN THE STUDY AREA	7-PART TEST REQUIRED
Myotis macropus Eastern Myotis	TSC Act-V	Various habitats of the coast and adjacent ranges with suitable waterbodies for hunting; caves or similar structures for roosting. It occasionally uses tree hollows.	**Moderate** Suitable hunting habitat was present on site.	**Yes**
Scoteanax rueppellii Greater Broad-nosed Bat	TSC Act-V	Tree-lined creeks, woodland/clearing ecotones and rainforest creeks, roosting mainly in tree hollows.	**High – Possible calls recorded during bat call survey.** Suitable hunting and roosting habitat was present.	**Yes**
Chalinolobus dwyeri Large-eared Pied Bat	TSC Act-V	This species has been found occupying Dry Sclerophyll Forest and Woodland. Roosts in caves, abandoned mud-nests of Fairy Martins and mine tunnels.	**Low** Suitable hunting habitat was present. No roosting habitat was available.	**Yes**
Vespadelus troughtoni Eastern Cave Bat	TSC Act-V	The Eastern Cave Bat roosts in caves and occurs in wet/dry sclerophyll forests to the semi-arid zone. It has been found roosting in small groups in sandstone overhangs, in mine tunnels and occasionally buildings.	**Low** Suitable hunting habitat was present. No roosting habitat was available.	**Yes**
Emu population in the NSW North Coast Bioregion and Port Stephens LGA.		Predominantly open habitats, including plains, grasslands, woodlands and scrubs, and may occur occasionally in forest.	**Low** Suitable habitat was present. Few local records.	**Yes**

APPENDIX VIII: Guide of Shell Species located at Bobs Farm site during 2014 and 2020 ACHAR Reports

Shell species noted in 2014 and 2019 ACHAR survey

Pipi (Plebidonax deltoides)

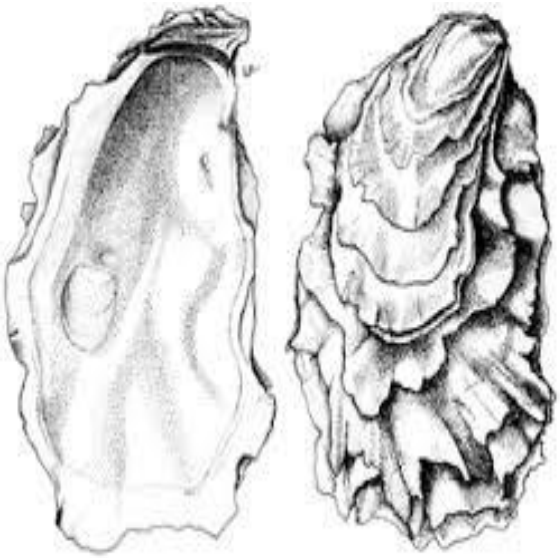


Oyster (Ostrea angasi)



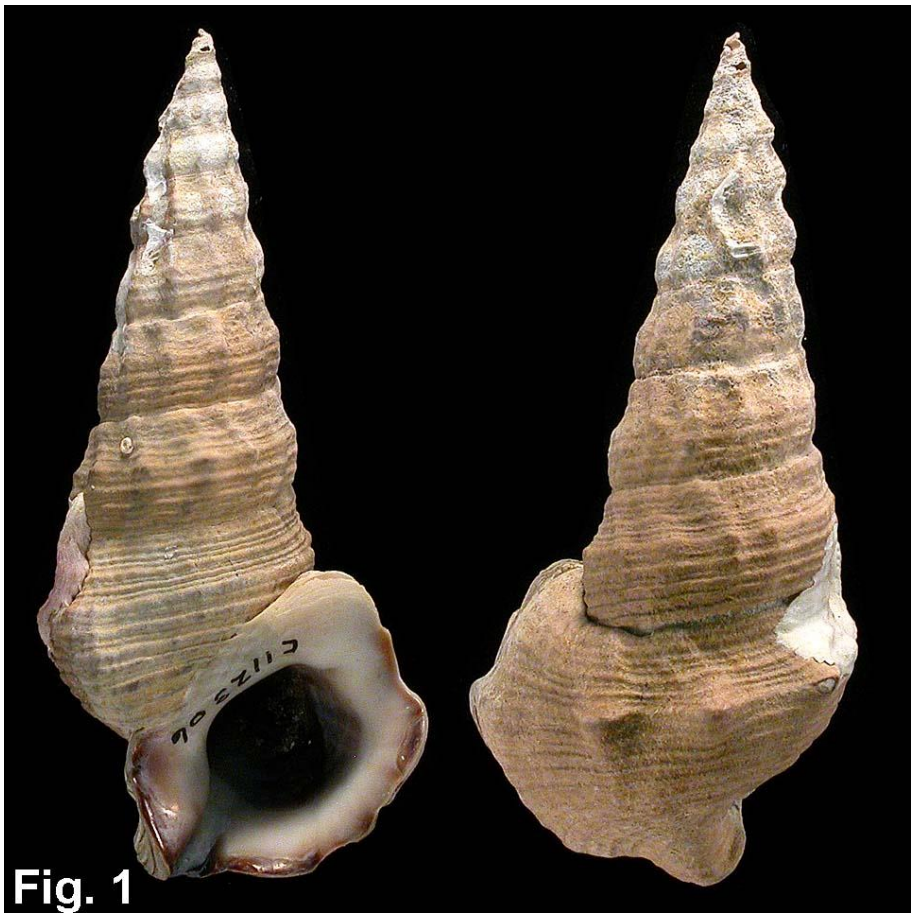


Oyster (Saccostrea glomerate)





Mud Whelk (Pyrazus ebeninnus)



Cockle (Anadara trapezia)

