



INSITE HERITAGE
PTY LTD

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Aboriginal Cultural Heritage Assessment Report

285 -335 Pacific Highway

Lake Munmorah

NSW

POST GATEWAY Aboriginal cultural heritage report for the current planning proposal with Central Coast Council (CCC) to rezone the land at Lake Munmorah (Precinct 16) as identified within *North Wyong Shire Structure Plan 2012*.

Supporting information for OEH for an AHIP application

Impact # 45-7-0389

Updated May 2021

Central Coast LGA

Report Author

Angela Besant B.A (Hons)



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CONTENT WARNING: SENSITIVE & PERSONAL INFORMATION

Please note that sections of this document contain information regarding the location of Aboriginal objects / sites. Appendices A and B also contains personal contact information of the Registered Aboriginal Parties for the project. This information is included to satisfy the assessment and consultation requirements for the project and should not be circulated in the public domain.

DISCLAIMER

This technical report has been prepared under commission and is intended for use for the purposes of the client in accordance with the specific project outlined in the Executive Summary. Written permission must be sought from Insite Heritage prior to the copying or use of this document.

Table of Contents

EXECUTIVE SUMMARY	4
AHIP REQUIREMENTS	5
1. RESTRICTED INFORMATION	5
2. CONFIDENTIAL INFORMATION	5
3. COPYRIGHT	5
4. DESCRIPTION OF THE PROPOSED ACTIVITY	5
5. INDICATE THE PROPOSED TERM OF THE AHIP	6
6. DESCRIPTION OF THE AREA WHERE THE PROPOSED ACTIVITIES ARE TO BE UNDERTAKEN, THE SUBJECT OF THIS AHIP APPLICATION INCLUDING EXCLUSION AREAS AND MAPS.....	6
7. DESCRIPTION AND IDENTIFICATION OF THE ABORIGINAL OBJECTS AND AHIMS SITES	7
9. DETAILS OF THE CONSULTATION PROCESS	7
10. STATEMENT OF SIGNIFICANCE OF THE CULTURAL HERITAGE VALUES	8
11. DESCRIPTION OF ACTUAL OR LIKELY HARM	8
12. DESCRIPTION OF MEASURES TO AVOID HARM	8
13. DESCRIPTION OF MEASURES TO MINIMISE HARM.....	8
14. INFORMATION REGARDING THE MANAGEMENT OF SALVAGED ARTEFACTS	8
APPENDIX A – CONSULTATION LOG	9
APPENDIX B – ADVERTISEMENT.....	11
APPENDIX C – PROJECT INFORMATION AND DRAFT METHODOLOGY REQUEST SENT TO REGISTRANTS.	13
APPENDIX D - 45-7-0389 SITE CARD	19
APPENDIX E - ARCHAEOLOGICAL ASSESSMENT	22

Executive Summary

Insite Heritage Pty Ltd have been commissioned by EDH Pty Ltd (2/85 Toowoan Bay Road Toowoan Bay 2261), to prepare an Aboriginal Cultural Heritage Assessment Post Gateway Report for the progression of rezoning of 285 – 335 Pacific Highway Lake Munmorah identified as Precinct 16, within the *North Wyong Shire Structure Plan 2012*.

The subject area lies within the boundaries of Darkinjung Local Aboriginal Land Council and the Central Coast City Council Local Government Area, Parish of Wallarah, County of Northumberland. A locality plan of the subject site is provided below. The project area comprises 27.539 ha under several titles.

The site inspection found an isolated find (# 45-7-0389) in the context of high surface exposure and visibility. No areas of sensitivity or areas of potential subsurface deposit were located.

It is recommended that an AHIP be sought for the isolated find. No further constraints have been identified on the site.

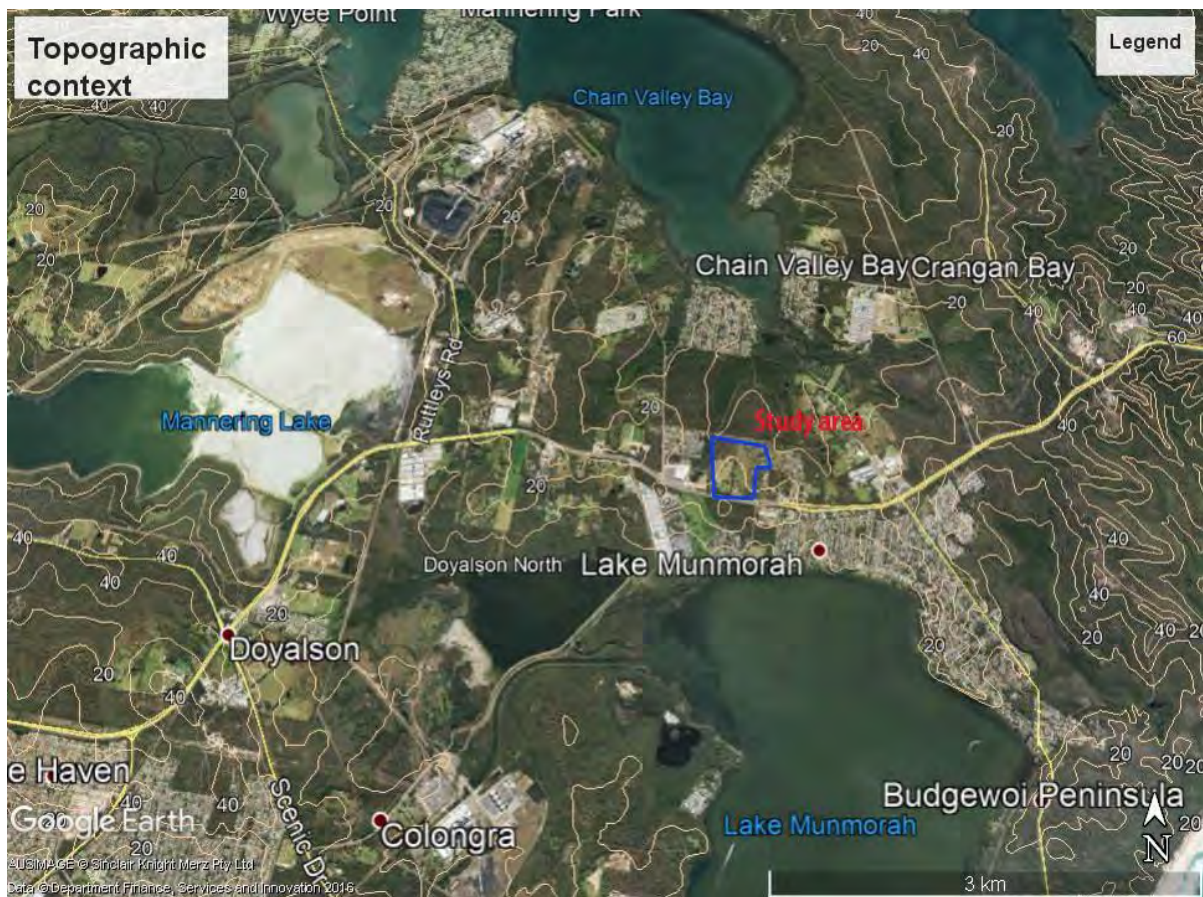


Figure 1 Study area general location and topographic context courtesy of Google Earth

AHIP Requirements

1. Restricted Information

Consultation with the Aboriginal community, via the Registered Aboriginal Parties for the project has not identified any restricted information regarding the study area.

2. Confidential Information

Consultation with the Aboriginal community via the Registered Aboriginal Parties for the project has not identified any confidential information regarding the study area.

Information within the consultation log in Appendix A is however confidential. This information is for the deliberation of the Secretary of OEH and delegated staff only.

3. Copyright

Copyright of the report is retained by Insite Heritage Pty Ltd.

This assessment report has been prepared by Angela Besant, senior archaeologist Insite Heritage Pty Ltd B.Arts (Archaeology & Human Ecology), Hons (Archaeology), ANU.

The report will be submitted to AHIMS with a signed AHIMS Heritage Report Cover Sheet.

4. Description of the proposed activity

The proposed development is the rezoning of the Lots 1 DP626787, Lots 27, 437 & 438 DP 755266, Lot 2DP626787, Lot 83 DP 650114 and Lot 12 DP771284 also identified as 285 – 335 Pacific Hwy Lake Munmorah NSW.

Discussions have been held with the Department of Planning, Industry and Environment (DPIE) regarding the preparation of **post gateway** reports for the current planning proposal with Central Coast Council (CCC) to rezone the land at Lake Munmorah (Precinct 16) as identified within *North Wyong Shire Structure Plan 2012* known as 285 – 335 Pacific Highway.

It is acknowledged that the project understanding is to pursue a future rezoning from the Post Gateway determination of RU6 - *Transition* to R2 - *Low Density Residential* under the Wyong Local Environmental Plan (LEP) to its formal gazettal by DPIE.

Total Rezoning 285 – 335 Pacific Highway Lake Munmorah		Land area	Planning Proposal (PP) / Post Gateway Rezoning Application
Address No.	Real Property Description (Lot/DP)	Hectares (ha)	Contribution %
285	1/626787	8.466	30.7
295	439/755266	8.498	30.8
305	437/755266	6.151	22.3
315	27/755266	2.145	7.8
325	83/650114	2.015	7.7
335	12/771284	0.264	0.7
		Total land area 27.539ha	
Total percentage			100

The exact yield of lots will be determined under future rezoning as determined by CCC. The layout of the for the gazettal of future subdivision is shown in Figure 2.



lake munmorah strategy

285 - 315 Pacific Highway Lake Munmorah rezoning precinct plan
SCALE : 1 : 4000



project:
planning proposal
R2 zoning

site:
 285, 295 + 305
 Pacific Hwy. Lake Munmorah

client:
 shopbox p/l

ref: 2337
 scale: 1:4000

dwg: **2337-PP 01/A**

Architects:

EDH GROUP PTY LTD
ARCHITECTS
 architecture - interiors - urban design - project management
 The archibank
 2/85 Florence Bay road
 Swansea Bay NSW 2281
 Ph: (02) 4253-9476
 Fax: (02) 4253-9470
 Mark Eastman - NPPA, AIA
 Registered Architect No. 18910
 Chris Helen Clarke - R. Arch. AIA
 Registered Architect No. 4276

Figure 2 (Precinct 16) as identified within North Wyong Shire Structure Plan 2012 known as 285 – 335 Pacific Highway.



Figure 2 Artefact location in the central area of 295 Pacific Hwy Lake Munmorah within the proposed rezoning.

5. Indicate the proposed term of the AHIP

The proposed term of the AHIP is ten (10) years to allow for the gazettal, rezoning and construction process.

6. Description of the area where the proposed activities are to be undertaken, the subject of this AHIP application including exclusion areas and maps.

The AHIP will be sought to cover the entirety of the rezoning footprint and encompass the subdivision impact areas. The AHIP will be submitted to Heritage NSW at the time of subdivision approval.

7. Description and identification of the Aboriginal objects and AHIMS sites

As shown in Figure 3 the site 45-7-0389 is an isolated artefact in a surface context. The artefact does show that there are very low-density artefact occurrences in the subject area and the AHIP application will extend to incorporate the known and potential objects in the development area.

9. Details of the consultation process

The consultation process to support this application was carried out in accordance with the NPW Regulation 80C. The project was advertised in The Lakes Mail (17th January 2019), written notifications were provided to Central Coast Council, Darkinjung LALC, Native Title Services, Native Title Tribunal, Office of the Registrar, OEH and Local Land Services (formerly CMA). Written invitations were then sent to the potential parties listed by OEH in the Central Coast LGA. The consultation log is provided in Appendix A.

The Aboriginal community are represented by eight Registered Aboriginal Parties on the project, as below:

Darkinjung Local Aboriginal Land Council

Awabakal Traditional Owners Aboriginal Corporation

Guringai Tribal Link

Paul Boyd and Lilly Carroll DNC

Ralph Hampton

Carolyn Hickey A1 Indigenous Services

Kevin Duncan

A request for culturally appropriate methodologies for the handling of information and request for any cultural information for consideration by the Secretary of OEH in their consideration of the application, and options for site management, were provided to the RAPs for a 28 day review period (closed 4th March 2019). No comments were received.

The draft of this ACHAR, was provided to all RAPs for a 28 day review period (22/05/2019) and not comments received. The consultation process carried out to support this application is compliant with NPW Regulation 2019 – 60. The details of the projects advertising, written notifications and ongoing consultation can be seen in the consultation log in Appendix A.

In 2020 No's. 325 and No. 335 Pacific Highway, were included in the Post Gateway assessment. No. 315, which was unavailable for inspection in 2019 was open to inspection. RAPs were informed of the additional lots. Due to a hiatus in consultation from 2019, Stages 1 to 3 of the consultation guidelines for Proponents were re-visited. The assessment of the additional lots, which comprised 16.2% of the total assessment area, did not identify any cultural objects or cultural heritage potential. The additional land contained 4.469ha of which 0.5ha is clearly disturbed by development of a service station and bus repair business.

The additional Lots were inspected in May 2021, in conjunction with Guringai Tribal Link., and no cultural artefacts, potential archaeological deposit or potential modified trees were recorded. The updated consultation documentation is included in the consultation appendices. The Stage 3 draft methodology and identification of cultural values did not identify any specific cultural values associated with the additional lots.

10. *Statement of significance of the cultural heritage values*

The archaeological significance of the site is low given the uncomplex character of the isolated find which is consistent with background scatter likely to be found in any location in NSW. There are no indications of cultural sites of potential complexity within the study area.

The cultural value of the site is determined by the Aboriginal community. No statements of cultural significance were received during the consultation process.

11. *Description of actual or likely harm*

The rezoning would allow for the construction of residential development which will impact on the identified artefact.

There may be impact to any other unidentified object within the development area.

12. *Description of measures to avoid harm*

Harm cannot be avoided as the artefact is located within the central area of the footprint of development.

13. *Description of measures to minimise harm*

Harm will be minimised by confining the development to the area that has been cleared and previously disturbed. The harm will be mitigated by collection of the artefact for relocation elsewhere on the property within a conservation corridor.

14. *Information regarding the management of salvaged artefacts*

Discussions in the field indicated that relocation on site was the preferred option. Any further requests for care and curation will be discussed with all RAPs on the project. The artefact would be relocated to the APZ zone on the western side of the project and the relocation noted

on AHIMS.

Appendix A – Consultation log

Consultation log 285- 305 Pacific Hwy Lake Munmorah

Date	Action	Response	Reply
17/12/2018	Sent letter of request for potential Aboriginal parties to Native Title Services Corp.		
	Sent letter of request for potential Aboriginal parties to the LLS		
	Sent letter of request for potential Aboriginal parties to Darkinjung Local Aboriginal Land Council.		
	Sent Letter of request for potential Aboriginal parties to Native Title Tribunal		
	Sent letter of request for potential Aboriginal parties to Central Coast Council.		
	Request for potential Aboriginal parties sent by email to OEH		
	Sent letter of request for potential Aboriginal parties to the Office of the Registrar		
17/01/2019	Advertisement placed in The Lakes Mail		
21-23 rd Jan 2019	Registrations received from Parties notified from the OEH list		
04/02/2019	Draft Methodology sent to RAPs by email	Closed for comment 4 th March 2019	No comments received
22/05/2019	Draft ACHAR sent to RAPs by email	Closes 19 th June 2019	No comments were received. 1 read receipt from
12/10/2020	Sent letter of request for potential Aboriginal parties to Native Title Services Corp.		

	Sent letter of request for potential Aboriginal parties to the LLS		
	Sent letter of request for potential Aboriginal parties to Darkinjung Local		
	Sent Letter of request for potential Aboriginal parties to Native Title Tribunal		
	Sent letter of request for potential Aboriginal parties to Central Coast Council.		
	Request for potential Aboriginal parties sent by email to Heritage NSW		
	Sent letter of request for potential Aboriginal parties to the Office of the Registrar		
15/10/2020	Response received from Heritage NSW		
15/10/2020	Advertisement run in Lakes Mail Public Notices	No responses	
02/11/2020	Response received from RAO	Contact DLALC	Done as part of notification process
26/10/2020 to 02/11/2020	Registrations received from	A1 ATOAC Awabakal and Guringai DNC Guringai Tribal Link LHAI and Widescope	
03/11/2020	Revised list of registrants provided to Heritage NSW	List included previous registrants	
03/11/2020	Revised methodology sent to RAPs to include 315 – 335 plus overview of previous assessment	Support for methodology received from	Widescope No other comments received
04/05/2021	Survey of 315 – 335 with Guringai Tribal link	No objects or potential deposit located	

Appendix B – Advertisement

Lakes Mail Connect with Classifieds

Phone: 131 696
Email: classifieds@theherald.com.au



Index

- Accessories and Spare Parts.....19
- Adult Services.....21
- Antiques.....19
- Beauty Health and Fitness.....19
- Boats and Accessories.....19
- Building Material and Supplier.....20
- Businesses For Sale & Wanted.....19
- Carriers and Removals.....20
- Education and Tuition.....19
- For Sale.....19
- Funeral Notices.....19
- Funeral Services.....19
- Garage Sales.....19
- General Notices.....19
- Holiday and Travel.....20
- Land For Sale.....19
- Motor Vehicles.....19
- Motor Wrecking.....19
- Personal Notices.....21
- Pets and Pet Care.....19
- Positions Vacant.....20
- Public Notices.....19-20
- Share Accommodation.....19
- Tenders.....20
- To Let & Wanted.....19
- Trade Services.....20
- Training and Career Services.....20
- Wanted To Buy.....20

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Creative Stone
Monumental Masons
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Monuments
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including drip tray(2),
plastic beer drum(4),
stainless steel beer
cans (7) , G a s
cylinders(large)(2), pres-
sure taps for beer
cylinders(2) and all
spare parts \$1200.
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22" FROM \$69, 26" FROM \$99, 32" FROM \$140 & 42" FROM \$250
All the above screens come with 12months warranty and are in new condition. We also sell brand new tvs. DVD Movie Library from \$1 with a wide range.
Call to: **NSW Colour TV**, 270 Turton Rd, New Lambton (next door to the Newcastle Knights Stadium) Ph. 4957 8355
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MORISSET PARK
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HUGE! EVERYTHING MUST GO!
Quality items
Tools, Timber, Fabric, Books, Furniture, Kitchenware, Framed Photos, CD's, DVD's, Vinyls, Linen, Billiard Table, BBQ, Games
SAT 26 JAN and SUN 27 JAN
8am - 4pm both days.

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Sun 20/1/19 10am-3pm
Pioneer Hall,
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Dealers Buy/Sell/
B/notes and accessories

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Greg/Ian

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With perm access to a further 800 adjoined acres of private hills & valley forest country, this property is ideal for camping, caravan, farming, swimming, fishing (huge new dam) of investment, location approx 4hr drive from the Hunter Newcastle region via Merriwa & Coolah.
Absolute bargain buy
- only \$29,950 full price
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100% Free towing
1 hour pick up
Call Jim now
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We are local!
Conditions apply

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Quiet S/C firm bedsit, suits 50 plus, \$250 pw.
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HOLIDAY RENTAL
Coomba Bay.
Self contained, 2 bedroom cabin, bush setting on 30 acres, quite location, close to boat ramp. \$1100 P/W. PH 0421 554 076.

MAYFIELD WEST
Fun rooms with fridge in quiet, clean, friendly, over 50's, share home. \$165 p/w. inc. exp. wifi. Ph: 0408 419 890.

Public Notices

PROPOSAL TO UPGRADE AN EXISTING MOBILE PHONE BASE STATION
Optus proposes upgrade its infrastructure at an existing mobile phone base station at Mount Sugarloaf Rd WEST WALLSEND NSW 2286.

1. The proposed upgrade to the base station involves the installation of the following:

- A total of three (3) panel antennas with two (2) antennas at 59.5m and one (1) antenna at 56.6m;
- One Radio communication antenna 1.2m diameter at 60m;
- Eighteen (18) Remote Radio Units (RRU's) near the new antennas;
- One (1) GPS antenna at 3m
- Three (3) Bay Thermocob outdoor cabinet at the base of the existing 163.2m steel lattice tower; and
- Cabling and ancillary equipment.

2. Optus regards the above proposed installation as Exempt Development under the State Environmental Planning Policy (Infrastructure) 2007 based on the description above. Further information about the proposal can be obtained from Andrew Johnson at Catalyst ONE Pty Limited at ajohnson@catalystone.com.au or by calling 0490 324 425.

Further information about the site can be obtained from www.rnsa.com.au/2286003. The proposed infrastructure installations will be in compliance with the ACMA EMR regulatory arrangements.

3. We invite you to make a submission. Written submissions should be sent to: Catalyst ONE Pty Limited
PO Box 1119
CROWS NEST NSW 1585
Email: ajohnson@catalystone.com.au
By: **1 February 2019**

Education and Tuition

SENIOR MATHEMATICS TUTORING AVAILABLE
Year 10, 11 and 12 students. Prepare now for the HSC. Mathematics General 2, Mathematics Mathematics Extension 1. Tutoring available from experienced Mathematics teacher at Morisset Park.
Ph: Nancy
0404 778 658

General Notices

Insite Heritage
have been commissioned by the EDH Pty Ltd (2/85 Toowoong Bay Rd Toowoong Bay) to prepare an Aboriginal Cultural Heritage Assessment for proposed rezoning and subdivision of 285 -305 Pacific Hwy Lake Munmorah - Lot 1 DP626787, Lots 437 & 436 DP755266. We invite expressions of interest from Aboriginal persons or groups who hold cultural knowledge relevant to the subject site. The purpose of consultation with Aboriginal people is to include cultural values in the ACHA and to assist the Secretary in their consideration of an AHIP application if required. Please submit your expression of interest to Insite Heritage Pty Ltd PO Box 98 Wangi Wangi NSW 2267 or angelia@insiteheritage.com.au by 31/01/2019. Note registrants details will be forwarded to OEH and the Local Aboriginal Land Council unless the registrant specifies they do not want their details released.

Share Accommodation

HAMILTON, furn, serviced room, own fridge, share fac, suit mature gent. \$170 pw. Ph: 0490 004 372.

Businesses For Sale & Wanted

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For sale, 25 years establish, loyal customer base, 2 fully equipped, full serviced trucks. Urgent Sale, \$90,000 neg. 0407 250 254

Pets and Pet Care

TINY FEMALE CHIHUAHUAS
Apple heads, 8 weeks m /chipped, vaccinated, wormed, cream in colour. Contact Sharon 0428 611 984.

Funeral Notices

Obituaries

RUSSELL - Fay.
29th November 2018. Of Arcadia Vale. Aged 77 Years.

COOPER - Florence Olive "Olive"
30th November 2018. Late of Teralba. Formerly of New Lambton. Aged 93 Years.

GALLARD - Christine Annie "Anne"
30th November 2018. Of Bethshan, Wyee. Aged 87 Years.

WHATSON - George William.
1st December 2018. Of Cooranbong. Formerly of Glenbrook. Aged 85 Years.

AKERS (nee HALVERSON) - Jean May.
4th December 2018. Formerly of Brightwaters. Aged 90 Years.

MALONEY - Bernie.
4th December 2018. Of Cooranbong. Aged 76 Years.

MULLARD - David.
6th December 2018. Of Morisset and Yacht Mystic. Aged 68 Years.

KRIZNAR - Kay Mary.
7th December 2018. Formerly of Blue Haven. Aged 82 Years.

PETERSON - Russell Mackenzie.
8th December 2018.

OVENSTONE - Paul Raymond.
10th December 2018. Of Toronto. Aged 69 Years.

SMITH (nee GIBBS) - Joan.
12th December 2018. Of Bethshan Gardens, Wyee. Aged 91 Years.

STEELE - Rayda "MAC"
14th December 2018. Of Bonnells Bay. Aged 95 Years.

NICHOLSON - Robert "Bob"
15th December 2018. Of Buttaba. Formerly of Newport. Aged 80 Years.

McKEACHIE - Doug.
20th December 2018. Of Doyalson North. Aged 84 Years.

APPLEYARD - Leon "Lenny"
24th December 2018. Of Bonnells Bay. Aged 62 Years.

HAWES - Harry Albert.
26th December 2018. Of Bonnells Bay. Aged 90 Years.

MACDONALD - Kaye.
2nd January 2019. Of Teralba. Aged 55 Years.

CARVETH - Kevin.
6th January 2019. Of Toronto. Aged 85 Years.

For detailed Obituary Notices please logon to www.barbarakingfunerals.com.au

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Barbara King Funeral Director Pty Ltd
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UNCLASSIFIED

Appendix C – Project information and draft Methodology request sent to registrants.



INSITE HERITAGE
PTY LTD

PO Box 198

Morisset NSW 2264

admin@insiteheritage.com.au

P 0249755818

4th February 2019

Re: Preparation of an Aboriginal Cultural Heritage Assessment Lots 1 DP626787, Lots 27, 437 & 438 DP 755266, Lot 2DP626787 – 285 – 315 Pacific Hwy Lake Munmorah NSW

Thank you for your registration of interest in the above project. The purpose of this information package is to present information about the proposed project (Stage 2 of the OEH consultation process) and commence OEH consultation step Stage 3, the presentation of a draft ACHA methodology for your review and comment.

Project Information & Background

Insite Heritage Pty Ltd have been commissioned by EDH Pty Ltd (2/85 Toowoona Bay Road Toowoona Bay 2261) to prepare an Aboriginal Cultural Heritage Assessment for a proposed rezoning of the above properties.

The subject area lies within the boundaries of Darkinjung Local Aboriginal Land Council and the Central Coast City Council Local Government Area, Parish of Wallarah, County of Northumberland. A locality plan of the subject site is provided below.

The project will require a rezoning application with Central Coast Council, and as such OEH require consultation to Regulation 80 (C) of the Act.

The aim of consultation is to identify any cultural values associated with the site that may not be registered on AHIMS.

The next step will be the physical assessment of the property, to identify any objects that may be impacted by the rezoning project. In addition, any cultural values need to be identified in the course of the assessment process.

Physical assessment methodology

The site comprises about 25 ha under several titles. The rezoning will allow for the development of residential housing. The property will be subject to a field assessment that will comply with the *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW* (OEH 2011).

Selected local RAPs will be involved in the field assessment which is likely to take one day. The landscape context of the site is not particularly sensitive

Input Point: We would appreciate your input on the proposed investigation methodology.



Figure 4 Subject site with approved development and location of proposed subsurface test investigation works



Plate 1 Study area view north west

Objectives

The objective of this consultation process is to consult with the Registered Aboriginal Community representatives regarding the cultural heritage values of the study area and to identify appropriate mitigation measures.

The first step in this process is to carry out consultation with the Aboriginal community representatives in accordance with 80 (C) of the *Act*.

The resulting information / consultation outcomes will result in the identification of cultural values that will be incorporated into the ACHAR and assist OEH in their consideration of an AHIP application should one be required.

Consultation Step 4.2.2 d) Definition of agreed roles, functions and responsibilities by the registered Aboriginal parties and the proponent

The proponent acknowledges that the registered Aboriginal parties are the primary determinants of cultural significance in the project area. Where appropriate the registered Aboriginal parties would provide information to Insite Heritage on behalf of the proponent regarding the cultural significance of objects and / or places within the project area and provide input into the proposed management recommendations for these objects.

Insite Heritage on behalf of the proponent would be responsible for providing information regarding the proposed project, conducting the consultation process and incorporating any submissions received from the registered parties into the cultural heritage assessment process. Insite Heritage would also be responsible for the development and implementation, in consultation with the registered parties, of protocols regarding the sourcing and holding of cultural knowledge which is sensitive or has restricted access. The information obtained by the proponent during the consultation process would only be used to inform the decision making process for the potential Aboriginal Place nomination, unless otherwise agreed to by the registered Aboriginal parties.

Any additional input into the above statements would be greatly appreciated.

Consultation Step 4.2.2 e) An opportunity to registered Aboriginal parties to raise and discuss their cultural concerns, perspectives and assessment requirements

We would like to invite all registered parties to identify, raise and discuss any cultural concerns, perspectives and outline any assessment requirements that they may have. This can be done by contacting Angela Besant at Insite by mail, email or phone (contact details below). If you would prefer to discuss direct with the proponent or OEH please let us know so that we can make arrangements for you.

A cultural heritage assessment will be prepared for the site and will include any cultural values that the community representatives wish to raise within the impact assessment. Due to the number of registrations of interest received, and the size of the site, we will be unable to have all registrants participate in the archaeological fieldwork. Insite will select field participants to assist in the fieldwork based on proximity to the project area, price and previous experience in the Lake Munmorah area. If you haven't already provided your field work rates and a brief summary of your experience could you please provide this with your response to the methodology.

Opportunity to Visit the Project Area

An opportunity to visit the study area will be offered during the draft ACHAR review period if requested. Note that remuneration for a site visit will not be offered as it is part of the consultation process. Also note that you can phone / email us to discuss the project if you require further information.

Stage 3 –Gathering information about cultural significance

Consultation Step 4.3.1 & 4.3.2 Presentation of proposed methodology for the cultural heritage assessment and opportunity to review and provide feed back

Our proposed methodology for the cultural heritage assessment is outlined below:

- Initiate the Stage 2 & Stage 3 consultation process by; providing information about the proposal to all registered parties.
- Seek submissions and information regarding the cultural significance of objects/and or places within the project area.
- Seek submissions regarding the development of management options of the identified objects and / or places within the project area.
- Collate information received in the Stage 3 consultation process, documenting all feedback and response to submissions and incorporate into the draft cultural heritage assessment report.
- Identify requirement for an AHIP to be sought and if so complete ACH assessment process
- Circulate the draft cultural heritage assessment report to the registered Aboriginal parties for review and comment.
- Hold a site visit opportunity to assist with input into the draft ACHAR if required.
- Collate and incorporate all responses to the draft report into the final cultural heritage assessment report.
- Submit final ACHA report to the client.

We would like to invite all registered parties to identify any protocols you wish to be adopted in the information gathering process and assessment methodology and any matters such as issues/areas of cultural significance that might affect, inform or refine the assessment methodology.

Consultation Steps 4.3.3 & 4.3.6

As part of this consultation we would like to seek cultural information from registered parties to identify:

- a) Whether there are any Aboriginal objects of cultural value to Aboriginal people in the area of the proposed project.
- b) Whether there are any places of cultural value to Aboriginal people in the area of the proposed project, including places of social, spiritual and cultural value, historic places with cultural significance, and potential places/areas of historic, social, spiritual and/or cultural significance.

Management of Culturally Sensitive Information

The proponent and Insite Heritage understand that some of the information received may be sensitive or have restricted public access and we are committed to protecting cultural knowledge. We understand that Aboriginal people must control the way in which cultural knowledge and other information relating specifically to their heritage is used, as this may be an integral aspect of its heritage value (OEH 2010).

We would endeavour to only collect cultural knowledge from Aboriginal people to the extent that it is required to understand and demonstrate:

- a) The cultural values in the area of the proposed activity, and
- b) The significance of any Aboriginal object(s) and/or place(s) that may be present.

Information collected from the cultural assessment process would only be used to inform the assessment report. Information would be received by Insite Heritage for incorporation into the assessment report which would also be forwarded to the proponent, OEH and other registered Aboriginal parties.

We would like to seek your input regarding the development and implementation of appropriate protocols for sourcing and handling cultural information in the following areas;

1. Cultural restrictions on access to the material.
2. Cultural restrictions on communication of the material.
3. Cultural restrictions on the location of the material.
4. Cultural recommendations on handling the material.
5. Any other contextual information.
6. The names and contact details of persons authorised within the relevant Aboriginal group to make decisions concerning the Aboriginal material and the degree of authorisation.
7. Details of any consent given in accordance with customary law
8. Level of confidentiality to be accorded to the material.
9. Access and use, by the registered Aboriginal parties, of the cultural information in the material
10. And any other areas identified by the registered parties

It is also acknowledged that it may be necessary for registered Aboriginal parties to liaise directly with OEH regarding sensitive information.

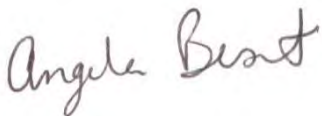
We would appreciate if you could provide your comments in writing regarding the proposed assessment and testing methodology, via email, mail or phone, by the 4th of March 2019 to:

Insite Heritage Pty Ltd PO Box 98 Wangi Wangi NSW 2267 Ph 0412836031 Email angela@insiteheritage.com.au

Please do not hesitate to contact us with any queries; we look forward to your response.

Kind regards

Insite heritage Pty Ltd



Angela Besant

Snr Archaeologist



INSITE HERITAGE
PTY LTD

PO Box 198
Morisset NSW 2264
angela@insiteheritage.com.au
P 0412836031

3rd November 2020

RE: Consultation for the preparation of an Aboriginal Cultural Heritage Assessment Proposed residential development of 285 -335 Pacific Hwy Lake Munmorah.

Thankyou for your interest in the proposed residential development of 285 to 335 Pacific Hwy Lake Munmorah and your participation in the consultation process. The purpose of this information package is to present information regarding the proposed Aboriginal cultural heritage assessment to be prepared for the project. Part of the site was surveyed by Darkinjung LALC and Guringai Tribal Link and an isolated find was located. The isolated find will require an AHIP for collection. No areas of PAD were recorded. A smaller area (315 and 335 Pacific Hwy) has been added to the project and will be inspected in due course.

The site is within the boundaries of the Darkinjung LALC and the Central Coast LGA. The location is shown in Figure 1. The location of the study area including the additional land is shown in G=Figure 2. The general layout of future residential is shown in Figure 3.

The project proposes:

- . Rezoning of the land from RU 6 (transitional) to R2 low density residential
- The exact yield of lots has yet to be determined

This letter is to provide project information (Stage 2 of the OEH consultation process) and commence the Biodiversity and Conservation Division (BCD formerly OEH) consultation step Stage 3, the presentation of a draft ACHA methodology for your review and comment.

Project Information & Background

Insite Heritage Pty Ltd have been commissioned by EDH Architects to prepare an Aboriginal Cultural Heritage Assessment Report with consultation as required for DPIE.

The subject area lies within the boundaries of Darkinjung Local Aboriginal Land Council and the Central Coast Local Government Area, Parish of Wallarah and County of Northumberland.

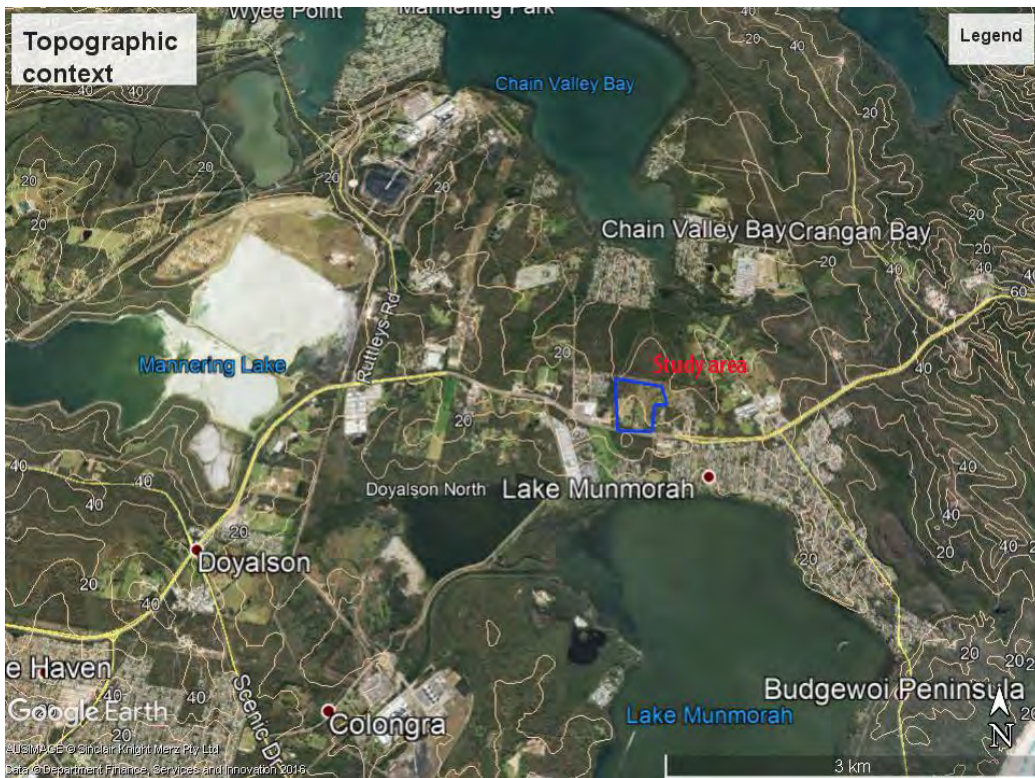


Figure 3 General study area location

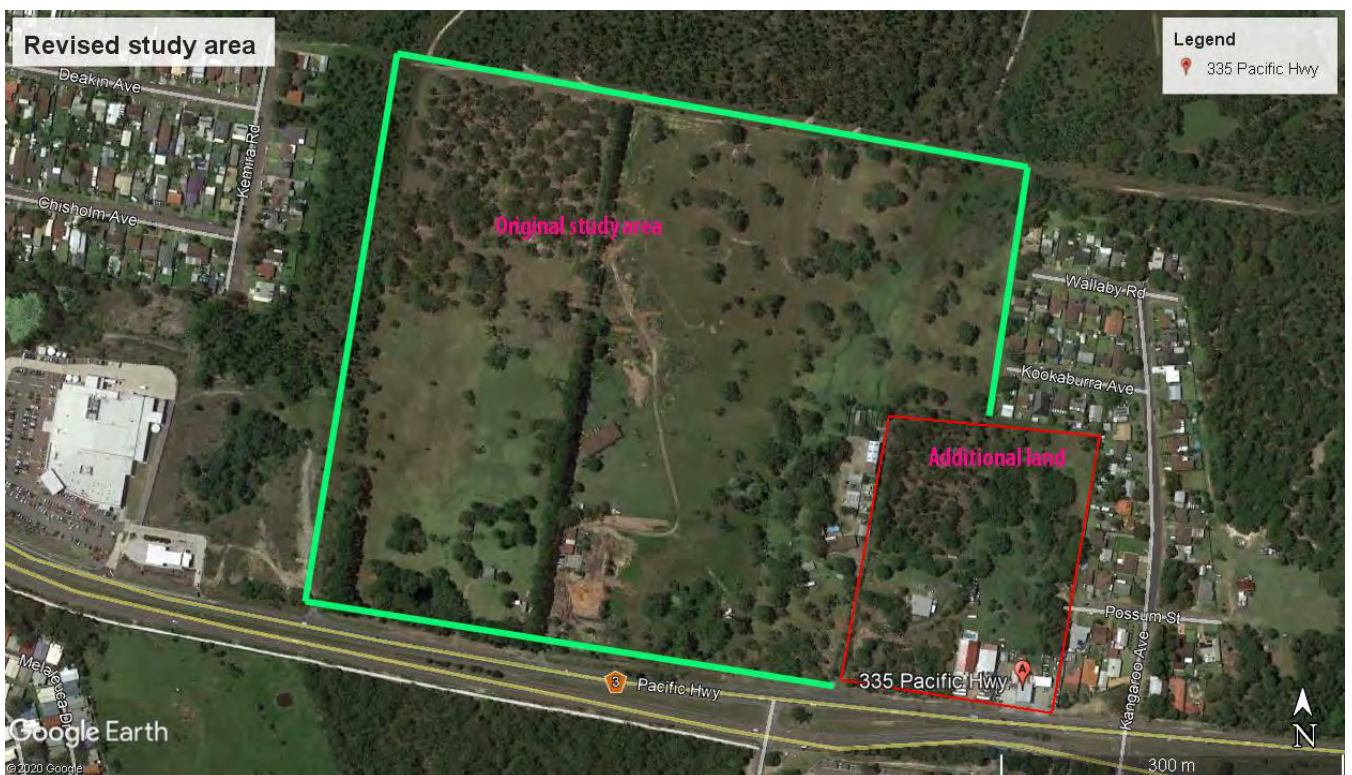


Figure 4 Location of the site – the original study area and additional land



project:
Planning proposal
R2 zoning

site:
285, 295 + 305
pacific hwy. lake munmorah

client:
shopbox p/l

ref: 2337
scale: 1:4000
dwg: **2337-PP 01**

Architects:
EDH GROUP PTY LTD
ARCHITECTS
architecture - interiors - urban design - project management
2186 kosciuszko way road
indooroopilly qld 4061
ph: (07) 5533-9870
fx: (07) 5533-9870
Mark Searns project architect
Chen Hanyi Gordon - BAIST, AIA
Registered Architect No. 2778

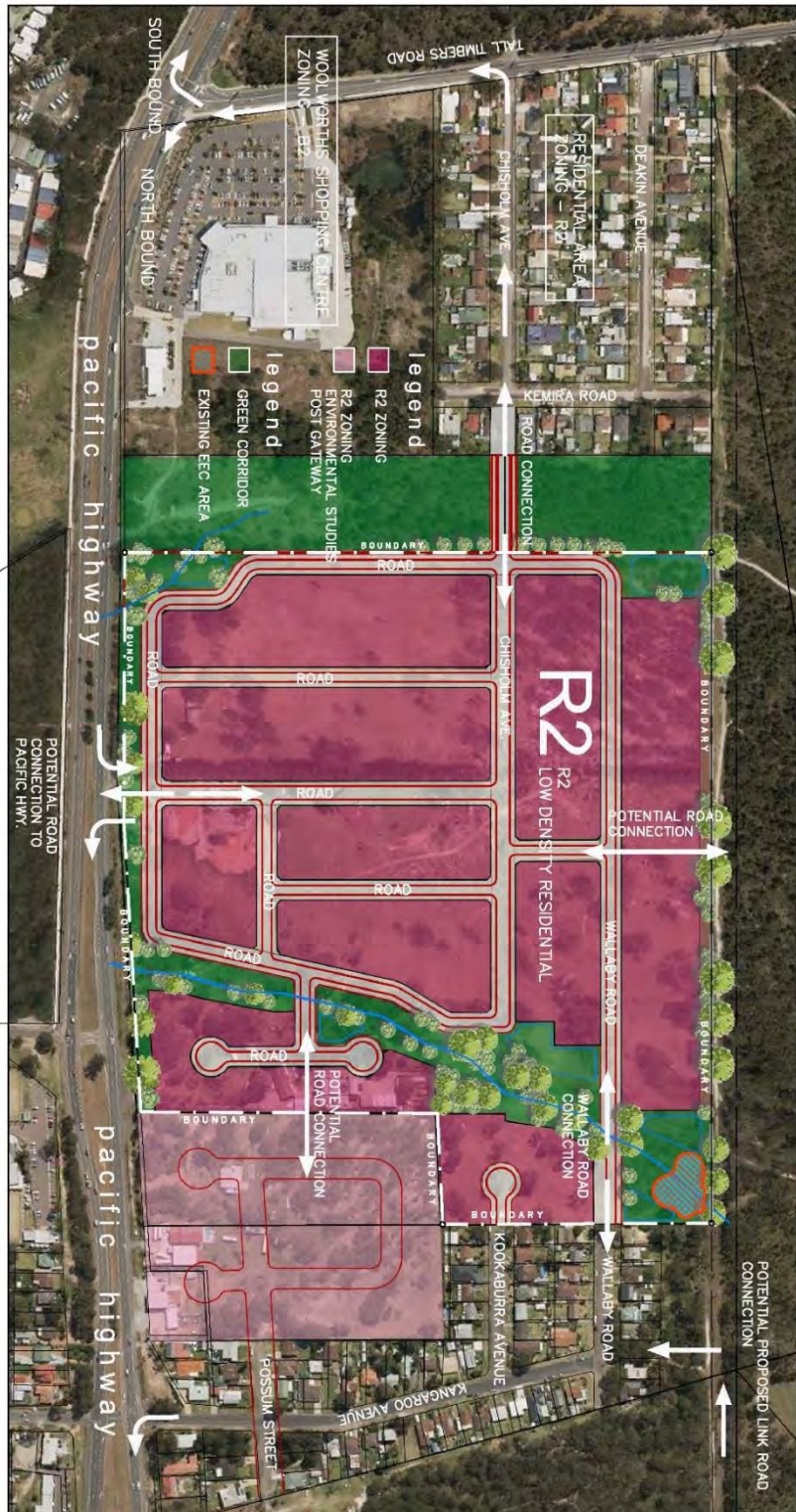


Figure 5 General development layout including asset protection zones.

Proposed assessment methodology

Firstly, comments received on the draft methodology will be addressed and the methodology updated.

The site comprises a gentle slope from the north west to the south east and comprises one landform unit – plain. The area has been developed as small acreages some of which have supported business such as timber and mulch stockpiles and dog kennels.

A site inspection of the additional land incorporated into the development area will be undertaken.

Input Point: We would appreciate your input regarding the proposed assessment methodology.

Regulation 80C requirements

Objectives

The objective of this consultation process is to consult with the Registered Aboriginal Community representatives regarding the cultural heritage values of the study area and to identify appropriate mitigation measures.

The first step in this process is to carry out consultation with the Aboriginal community representatives in accordance with 80 (C) of the *Act*.

The resulting information / consultation outcomes will result in the identification of cultural values that will be incorporated into the ACHAR and assist BCD (formerly OEH) in their consideration of the modification application.

Consultation Step 4.2.2 d) Definition of agreed roles, functions and responsibilities by the registered Aboriginal parties and the proponent

The proponent acknowledges that the registered Aboriginal parties are the primary determinants of cultural significance in the project area. Where appropriate the registered Aboriginal parties can provide information to Insite Heritage on behalf of the proponent regarding the cultural significance of objects and / or places within the project area and provide input into the proposed management recommendations for these objects.

Insite Heritage on behalf of the proponent would be responsible for providing information regarding the proposed project, conducting the consultation process and incorporating any submissions received from the registered parties into the cultural heritage assessment process. Insite Heritage would also be responsible for the development and implementation, in consultation with the registered parties, of protocols regarding the sourcing and holding of cultural knowledge which is sensitive or has restricted access. The information obtained by the proponent during the consultation process would only be used to inform the decision-making process by DPIE, unless otherwise agreed to by the registered Aboriginal parties.

Any additional input into the above statements would be greatly appreciated.

Consultation Step 4.2.2 e) An opportunity to registered Aboriginal parties to raise and discuss their cultural concerns, perspectives and assessment requirements

We would like to invite all registered parties to identify, raise and discuss any cultural concerns, perspectives and outline any cultural values that should be considered by DPIE in their assessment of the ACHAR and AHIP (if necessary). This can be done by contacting Angela Besant at Insite by mail, email or phone (contact details below). If you would prefer to discuss direct with the proponent or BCD please let us know so that we can make arrangements for you.

Stage 3 –Gathering information about cultural significance

Consultation Step 4.3.1 & 4.3.2 Presentation of proposed methodology for the cultural heritage assessment and opportunity to review and provide feed back

Our proposed methodology for the cultural heritage assessment is outlined below:

- Initiate the Stage 2 & Stage 3 consultation process by providing information about the proposal to all registered parties.
- Seek submissions and information regarding the cultural significance of objects/and or places within the project area.
- Seek submissions regarding the development of management options of the identified objects and / or places within the project area.
- Collate information received in the Stage 3 consultation process, documenting all feedback and response to submissions and incorporate into the draft cultural heritage assessment report.
- Circulate the draft cultural heritage assessment report to the registered Aboriginal parties for review and comment.
- Hold a site visit opportunity to assist with input into the draft ACHAR if required.
- Collate and incorporate all responses to the draft report into the final cultural heritage assessment report.
- Submit final ACHA report to the client.

We would like to invite all registered parties to identify any protocols you wish to be adopted in the information gathering process and assessment methodology and any matters such as issues/areas of cultural significance that might affect, inform or refine the assessment methodology.

Consultation Steps 4.3.3 & 4.3.6

As part of this consultation we would like to seek cultural information from registered parties to identify:

a) Whether there are any Aboriginal objects of cultural value to Aboriginal people in the area of the proposed project (other than known sites).

b) Whether there are any places of cultural value to Aboriginal people in the area of the proposed project, including places of social, spiritual and cultural value, historic places with cultural significance, and potential places/areas of historic, social, spiritual and/or cultural significance.

Management of Culturally Sensitive Information

The proponent and Insite Heritage understand that some of the information received may be sensitive or have restricted public access and we are committed to protecting cultural knowledge. We understand that Aboriginal people must control the way in which cultural knowledge and other information relating specifically to their heritage is used, as this may be an integral aspect of its heritage value (OEH 2010).

We would endeavour to only collect cultural knowledge from Aboriginal people to the extent that it is required to understand and demonstrate:

a) The cultural values in the area of the proposed activity, and

b) The significance of any Aboriginal object(s) and/or place(s) that may be present.

Information collected from the cultural assessment process would only be used to inform the assessment report. Information would be received by Insite Heritage for incorporation into the assessment report which would also be forwarded to the proponent and BCD. Note that cultural information may be provided to other RAPs unless specified otherwise.

We would like to seek your input regarding the development and implementation of appropriate protocols for sourcing and handling cultural information in the following areas;

1. Cultural restrictions on access to the material.
2. Cultural restrictions on communication of the material.
3. Cultural restrictions on the location of the material.
4. Cultural recommendations on handling the material.
5. Any other contextual information.
6. The names and contact details of persons authorised within the relevant Aboriginal group to make decisions concerning the Aboriginal material and the degree of authorisation.
7. Details of any consent given in accordance with customary law
8. Level of confidentiality to be accorded to the material.
9. Access and use, by the registered Aboriginal parties, of the cultural information in the material
10. And any other areas identified by the registered parties

It is also acknowledged that it may be necessary for registered Aboriginal parties to liaise directly with BCD regarding sensitive information.

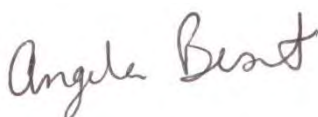
We would appreciate if you could provide your comments in writing regarding the proposed assessment methodology, via email, mail or phone, by 1st December 2020:

**Insite Heritage Pty Ltd PO Box 198 Morisset NSW 2264 Ph 0412836031
Email angela@insiteheritage.com.au**

Please do not hesitate to contact me with any queries; we look forward to your response.

Kind regards

Insite heritage Pty Ltd



**Angela Besant
Archaeologist**

Methodology Response

From: [WIDESCOPE](mailto:angela@insiteheritage.com.au)
To: angela@insiteheritage.com.au
Subject: Re: draft methodology 285-335 Pacific Hwy Lake Munmorah
Date: Monday, 16 November 2020 2:50:32 PM
Attachments: [image003.png](#)



Widescope Indigenous Group

ABN : 85 534 438 671
Contact : Steven Hickey
Address H/O : 73 Russell St, Emu Plains NSW 2750
E-mail : Widescope.group@live.com
Mobile : 0425 230 693

Hi Angela,

I have reviewed the document and support the project Information and Methodology.

Widescope would like to be included in any future field work.

Thank you

Steven Hickey

From: angela@insiteheritage.com.au <angela@insiteheritage.com.au>
Sent: Tuesday, 3 November 2020 1:46 PM
To: widescope.group@live.com <widescope.group@live.com>
Subject: FW: draft methodology 285-335 Pacific Hwy Lake Munmorah

From: angela@insiteheritage.com.au <angela@insiteheritage.com.au>
Sent: Tuesday, 3 November 2020 1:45 PM
To: 'cazadirect@live.com' <cazadirect@live.com>; 'Kerrie Brauer' <kerrie@awabakal.com.au>; 'didgengunawalclan@yahoo.com.au' <didgengunawalclan@yahoo.com.au>; 'Tracey Howie' <tracey@guringai.com.au>; 'davahoy@gmail.com' <davahoy@gmail.com>
Subject: draft methodology 285-335 Pacific Hwy Lake Munmorah

Please find attached the draft methodology for the ACHAR for the above project
If you have any comments could you please get those to me by the 1st December 2020

Appendix D 45-7-0389 Site Card



Office of
Environment
& Heritage

Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID:	45-7-0389	Date recorded:	18-04-2019
-----------------------	-----------	-----------------------	------------

Site Location Information

Site name: LM 1

Easting: 366147 **Northing:** 6327061 **Coordinates must be in GDA (MGA)**

Horizontal Accuracy (m): 5

Zone: 56 **Location method:** Non-Differential GPS

Recorder Information
(The person responsible for the completion and submission of this form)

Title	Surname	First name
Ms.	Besant	Angela
Organisation: Insite Heritage		
Address: PO Box 98 Wangi Wangi 2267		
Phone: 041 2836031	E-mail: angela@insiteheritage.com.au	

Site Context Information

Land Form Pattern:	Undulating Plain	Land Use:	Semirural
Land Form Unit:	Plain	Vegetation:	Cleared
Distance to Water (m): 200	Primary Report: 285 to 305 Pacific Hwy Lake Munmorah Rezoning Archaeological Asse		
How to get to the site:	Located at the rear of 295 Pacific Hwy Lake Munmorah Lot 438 DP755266		
Other site information:	located in sandy exposure common on this property. tree services yard highly disturbed by stockpiles of tree debris and stockpiles of soil		

Site location map



Site contents information

open/closed site:

Site condition:

Features:

1.

Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

Isolated find located in an area of 30m x 20 m exposure 50% ground visibility 90% arch visibility artefact grey silcrete, fine grained . 30x15x3mm

Features:

2.

Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
<input type="text"/>	<input type="text"/>	<input type="text"/>

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

Appendix E Archaeological assessment 2019



INSITE HERITAGE
PTY LTD

PO Box 198
Morisset NSW 2264
admin@insiteheritage.com.au
P 0412836031
ABN 70 110 716 080

Aboriginal Heritage Archaeological Assessment
285 – 305 Pacific Highway
Lake Munmorah NSW.

Report to
EDH Group Architects
2/85 Toowoon Bay Rd Toowoon Bay 2261

May 2019

Contents

Introduction & Proposed Works	3
Development Detail	3
Archaeological Context.....	5
Landscape Context.....	5
Predictive model.....	6
Field Inspection	7
Impact Assessment	13
Significance Assessment.....	14
Management Recommendations	14
Appendix A– Lake Munmorah AHIMS Search	15
Appendix B – AHIMS site card 45-7-0389	17

Introduction & Proposed Works

Insite Heritage Pty Ltd were commissioned by EDH Architects Pty Ltd to prepare an archaeological assessment of the site subject to a proposed rezoning to residential. The study area is located on the Pacific Highway Lake Munmorah south of Newcastle. The proposed rezoning includes four lots as follows:

1. Lot 1 DP 626787
2. Lot 2 DP626787
3. Lot 438 DP 755266
4. Lot 437 DP 755266

The site comprises 25 hectares located between existing residential development to the east and the west (Figure 1). The topography of the site is undulating plain. The site is located within the boundaries of Darkinjung LALC, Parish of Wallarah, County of Northumberland.



Figure 1 General site location outlined in red – Google Earth

Development Detail

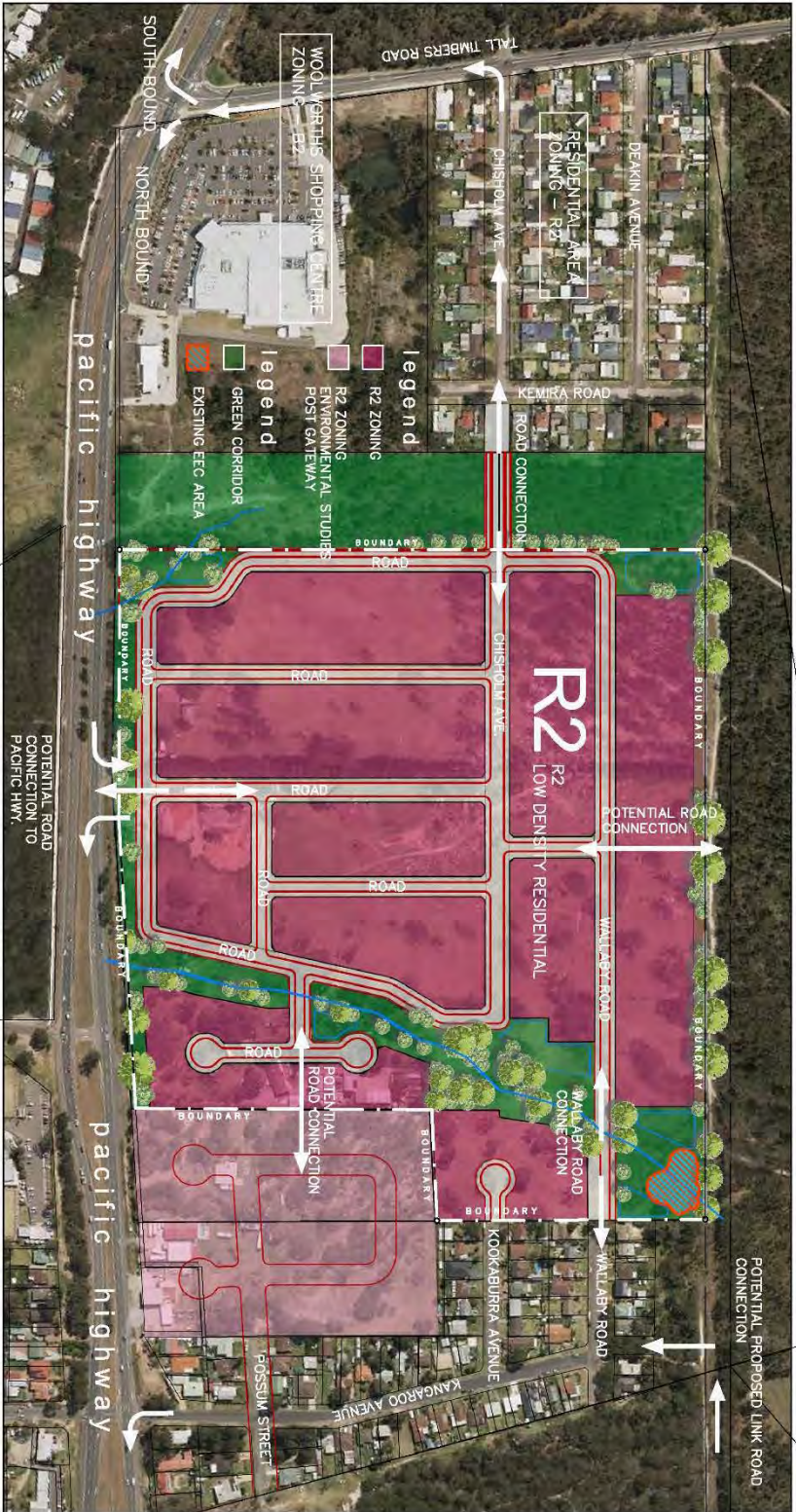
The study area is currently zoned RU6 (transitional) and the proposed rezoning would change the zoning to R2 low density residential.

An indicative residential layout can be seen in Figure 2. The indicative layout shows an asset protection zone on the western boundary and a drainage corridor on the eastern side. The exact yield of lots is not yet finalised.

lake munmorah strategy



285 - 315 pacific highway lake munmorah rezoning precinct plan
SCALE : 1 : 4000



project: **planning proposal**
R2 zoning
 site: 285, 295 + 305
 pacific hwy. lake munmorah

client: **shopbox p/l**
 ref: 2337
 scale: 1: 4000

dwg: **2337-PP 01**

Architects:

EDH GROUP PTY LTD
ARCHITECTS
 architecture - interiors - urban design - project management
 2185 Norman Way road
 p.m. (02) 2337-4172
 fax: (02) 2337-4170

Mark Eastman - NPA, MA
 Registered Architect No. 2610
 Chae Heeul Gwon - BA(arch), MA
 Registered Architect No. 2778

Figure 2 The development plan.

Archaeological Context

A search of the Aboriginal Heritage Information Management System (AHIMS) to identify recorded Aboriginal archaeological sites in proximity to the subject site (see Attachment A).

One AHIMS site was identified within a 1km radius of the study area (Figure 3 and Table 1). The site, an isolated stone artefact, was found to the east, and has been subject to a permit. No AHIMS sites occur within the study area.

Site No.	Site Name	Easting	Northing	Type	Contents
45-7-0344	St Brigids	367087	6327096	Isolated find	Stone artefact



Figure 3 AHIMS site 45-7-0344 located within 1km of the study area to the east.

Landscape Context

The proposed development is located on the Doyalson Soil Landscape, typified by undulating low hills and rises, with local relief to 30 m and slope gradients of <10%. Broad crests and ridges and long gently inclined slopes, with broad drainage lines are also features of this landscape.

Brown loose sand and with coarse grained texture and single grained structure comprises the A horizon, the material is often water repellent where organic matter is high and weak sub-angular structure with rough ped fabric occurs. (Murphy 1993).

Vegetation prior to clearing comprised open-forest of *Eucalyptus haemostoma* (scribbly gum), *E. gummifera* (red bloodwood) *E. capitellata* (brown stringybark), *Angophora costata* (smooth-bark apple), and *E. punctate* (thin-leaved stringybark) and *E. paniculate* (grey ironbark). Understorey plants include hill banksia (*Banksia spinulosa* var *collina*), banksia (*Banksia oblongifolia*) and mountain devil (*Lambertia formosa*).

The study area is dissected by first order drainage line in the mid-east section of the site. The is broad and ill-defined, heavily grassed and does not currently hold water.



Figure 4 Topography of the study area

As shown in Figure 4 the site has been historically cleared and used for a variety of small-scale industry, including a tree stump stockpiles, mulch stockpiles and dog kennels. Sheet erosion is evident in parts of the property, particularly the western portion.

Predictive model

The desktop assessment of the study area indicates that there is a low to moderate probability of artefacts occurring across the study area, probably in low densities, given the environmental and landform context of the subject area.

Modified trees are unlikely to occur although mature angophora are present across the study area.

The isolated find recorded by Sharon Hodgetts at St Brigids School to the east of the site is a tuff core. Based upon the site card, this core was located by monitoring of earthworks. It was an isolated find in an area of extensive construction disturbance. The site photos give the impression that if a denser camp site were located in the area, evidence would have been observed.

One possible explanation of the paucity of sites in the area may be the minimal freshwater available in the area. The broad undefined drainage channels of the area are in the Wyong soil landscape and quite likely to be brackish water.

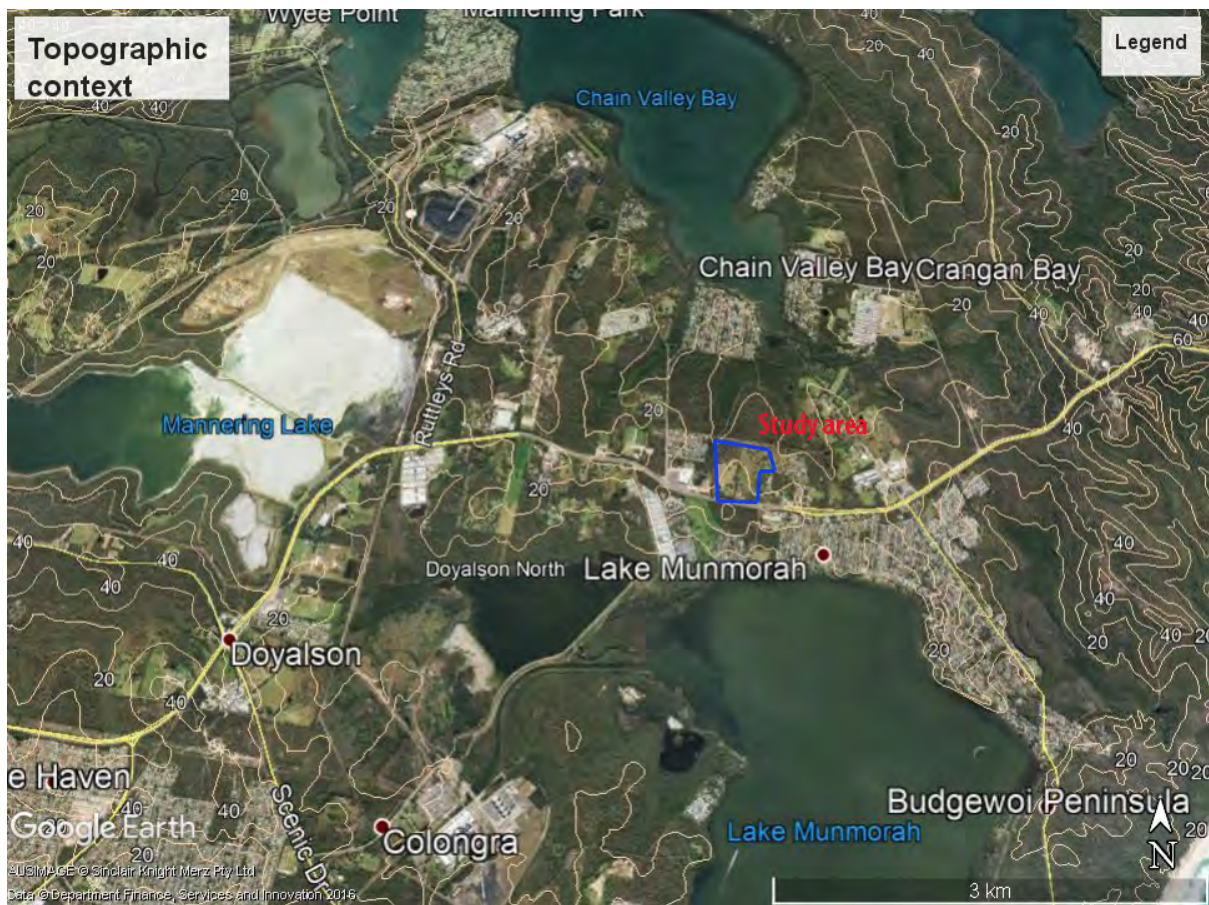


Figure 5 Topographic context of the study area

Field Inspection

The site was surveyed on the 19th February 2019 with Anthony Freeman (DLALC) and Tracey Howie (Gunringai TLC).

Transects were walked over the property covering the area of the proposed development. Each transect was three people wide covering approximately 30m. Transects are shown in Figure 6 and details provided in Table 1.



Figure 6 Survey transects in the western, mid and eastern portions.

Table 1 Survey details

Unit	No. of transects	Total length transects	Total width of transects	Coverage	Visibility surface	Archae. Visibility	Total coverage
West	1 nth -sth	350 m	30m	1.05 ha	80 %	90%	0.756 ha
	10 west – east	128 m	30m	3.85ha	85%	90%	2.945ha
Mid	5 nth sth	340 m	30m	5.1 ha	20%	10%	0.102 ha
East	3 nth sth	460m	30m	1.38ha	10%	90%	0.1242ha
	4 east west	360m	30m	1.08 ha	5%	90%	0.0486 ha
Total				12.46 ha			3.9758 ha



Plate 1 View north west over the western portion of the site.



Plate 2 View north in the mid survey section of the site.

The field survey located an isolated find in the mid section of the study area. No areas of particular sensitivity were located. The level of surface visibility, particularly in the west and part of the mid section of the study area, was high at up to 90% in places. The exposures showed thin pale sandy soils over the B horizon and provided a sound opportunity to locate larger camp sites if these were present.

Observing the landscape and the undulations of the site, it was considered that the broad ridge in the centre of the development area was the most likely context for more complex sites to be located. However, in this area an isolated find was all that was recorded despite quite extensive surface visibility. The eastern part of the broad ridge was covered in mounded dirt and stump piles related to the tree services business operating on the site. It was found that the surface visibility on the western half of the broad ridge was sufficient to conclude that the isolated find was likely to be typical of sites in the area, and that complex camp sites must be located elsewhere.

Table 2 Artefact details

AHIMS	Easting	Northin g	Type	Material	L x W x T (mm)	Comments
45-7-0389 LM1	366147	632706 1	Flake	Grey tuff	30 x 15 x 3	Fine grained flake. In an exposure 60 sqm.



Plate 1 View north over the area of the location of the isolated find.



Plate 2 area of disturbance east of the artefact location



Plate 3 Artefact located in 60sqm exposure in the mid- section of the study area.



Plate 4 Artefact in-situ



Plate 5 View east west portion of study area



Plate 6 Typical exposure eastern portion of the study area



Plate 7 Ground exposure mid section



Plate 8 Surface exposure eastern section



Plate 9 View north east section



Plate 10 Ground exposure east section



Plate 11 ground exposure south end of east section



Plate 12 ground exposure north end of east section

Impact Assessment

The artefact has been recorded on AHIMS – 45-7-0389 and the site card can be seen in Appendix B. This artefact is located within the area designated for residential development. The artefact will be directly impacted by the residential development and associated earthworks.



Figure 7 The location of the artefact recorded.

It was noted that the broad ill-defined watercourse is poorly drained and as shown by the numerous Melaleuca trees from the lowest point to the adjacent boundary fence, the ground is quite damp. This also suggested that more complex camp sites would be likely located on the broad ridge.

Significance Assessment

The landform on which the proposed development is located, the crest of a minor broad ridge at about 20m elevation. Despite extensive surface visibility on the crest and the western side slope, no other objects were located. The eastern side of the broad ridge had less visibility at about 10%, however no objects were located and the area was found to be poorly drained.

In the landscape context the crest of the broad ridge would appear to be the most likely area to have supported camp sites, however only an isolated find was located.

The archaeological significance is low as an isolated object is consistent with other sites found on the eastern side of Lake Macquarie, particularly within the Doyalson soil landscape with its thin sandy A1 horizon soils.

The cultural significance of the site is likely to be moderate as a tangible expression of occupation. Any advances to the cultural significance will be added upon review of the ACHAR by the Aboriginal community representatives.

Management Recommendations

The artefact located will be impacted by the residential development therefore an AHIP is required should the subdivision be approved. The ultimate mitigation of the identified artefact will be subject to the choice of the Aboriginal community.

Options for artefact management include:

1. Leave in-situ
2. Collect under a Care and Control Permit
3. Collect and relocate to elsewhere on the property, such as the APZ area or the green corridor of the undefined drainage line, so the artefact remains on Country. The site will then be modified on AHIMS to show the new location.

Due to the extent of surface visibility and based on the landscape context, no further work is recommended for this site.

References

The Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (OEH 2010)

Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011)

Appendix A- Lake Munmorah AHIMS Search



AHIMS Web Services (AWS) Extensive search - Site list report

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
45-7-0344	St Brigids Individual Find 1	GDA	56	367087	6327096	Open site	Valid	Artifact : -		
	<u>Contact</u>	<u>Recorders</u>		Ms.Sharon Hodgèts				<u>Permits</u>	3704	

Report generated by AHIMS Web Service on 16/04/2019 for Angela Besant for the following area at Lot : 438, DP DP755266 with a Buffer of 1000 meters. Additional Info : archaeological assessment for a rezoning. Number of Aboriginal sites and Aboriginal objects found is 1

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.

Appendix B – AHIMS site card 45-7-0389



Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID:

Date recorded:

Site Location Information

Site name:

Easting: Northing: Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

Zone: Location method:

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
<input type="text" value="Ms."/>	<input type="text" value="Besant"/>	<input type="text" value="Angela"/>

Organisation:

Address:

Phone: E-mail:

Site Context Information

Land Form Pattern: Land Use:

Land Form Unit: Vegetation:

Distance to Water (m): Primary Report:

How to get to the site:

Other site information:

Site location map



Site contents information

open/closed site:

Site condition:

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
1. <input type="text" value="Artefact"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

Isolated find located in an area of 30m x 20 m exposure 50% ground visibility 90% arch visibility artefact grey silcrete, fine grained 30x15x3mm

Features:

	Number of features	Length of feature(s) extent (m)	Width of feature (s) extent (m)
2. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Scarred Trees			
Scar Depth (cm)	Regrowth (cm)	Scar shape	Tree Species
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Description:

**Appendix F – Addendum archaeological assessment
315-335 Pacific Hwy Lake Munmorah**



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Addendum Aboriginal Heritage Archaeological
Assessment
315 – 335 Pacific Highway
Lake Munmorah NSW.

Report to
EDH Group Architects
2/85 Toowoona Bay Rd Toowoona Bay 2261

May 2021

Contents

Introduction & Proposed Works	3
Development Detail	4
Archaeological Context.....	6
Landscape Context.....	6
Predictive model.....	7
Field Inspection	8
Impact Assessment	12
Significance Assessment.....	12
Management Recommendations	12
Appendix A– Lake Munmorah AHIMS Search	13
Appendix B – AHIMS site card 45-7-0389	15

Introduction & Proposed Works

Insite Heritage Pty Ltd were commissioned by EDH Architects Pty Ltd to prepare an archaeological assessment of the site subject to a proposed rezoning to residential. The study area is located on the Pacific Highway Lake Munmorah south of Newcastle. The proposed rezoning includes four lots as follows:

No. 285	Lot 1 DP 626787
No. 295	Lot 439 DP 755266
No. 305	Lot 437 DP 755266

This addendum report address the following lots which are included in the Post Gateway determination of RU6 – Transition to R2- *Low Density Residential* under the Wyong LEP for formal gazettal by DPIE. These lots were unavailable for inspection at the time of the 2019 field inspection.

The entire study area comprises 27.539 hectares with the addendum lots forming 4.424 ha of the area. Of the addendum lots (No's 315-335), 0.5ha have been subject to intensive development as a service station and bus sales / repair yard.

The addendum lots are described as:

No. 315	Lot 27 DP755266
No. 325	Lot 83 DP 650114
No. 335	Lot 12 DP 771284

The area of the post gateway planning proposal is located between existing residential development to the east and the west (Figure 1). The topography of the site is undulating plain. The site is located within the boundaries of Darkinjung LALC, Parish of Wallarah, County of Northumberland.



Figure 1 The 2019 assessment area General site location outlined in red – Google Earth



Figure 2 Addendum study area No. 315 - 335 Pacific Hwy additional to land shown in Figure 1. courtesy of Google Earth

Development Detail

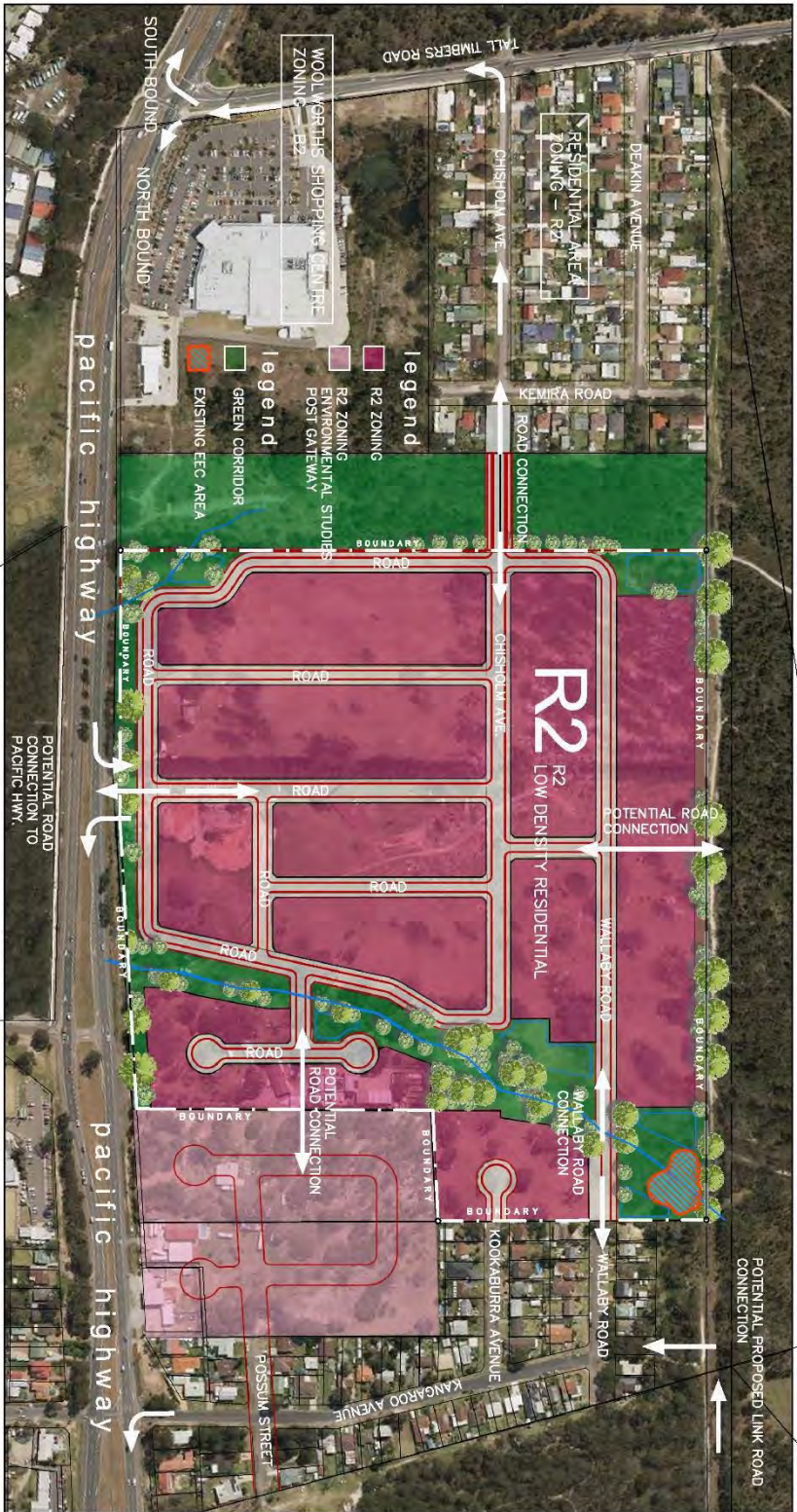
The study area is currently zoned RU6 (transitional) and the proposed rezoning would change the zoning to R2 low density residential.

An indicative residential layout can be seen in Figure 3, with the addendum area shown in pale pink shading. The indicative layout shows an asset protection zone on the western boundary and a drainage corridor on the eastern side. The exact yield of lots is not yet finalised.

lake munmorah strategy



285 - 315 pacific highway lake munmorah rezoning precinct plan
 SCALE : 1 : 4000



project:

Planning Proposal

site:

285, 295 + 305
 pacific hwy. lake munmorah

client:

shopbox p/l

ref: 2337

scale: 1:4000

dwg: 2337-PP 01

Architects:

EDH GROUP PTY LTD
ARCHITECTS
 architecture - interiors - urban design - project management

17a entrance
 2385 Southon Way road
 Mt. Sion
 ph: (02) 4334472
 fax: (02) 4333470

Mark Eastman - NFA, AIA
 Registered Architect No. 9810
 Chris Harri Gordon - BA(Act), AIA
 Registered Architect No. 4278

Figure 3 The development plan.

Archaeological Context

A search of the Aboriginal Heritage Information Management System (AHIMS) to identify recorded Aboriginal archaeological sites in proximity to the subject site (see Attachment A).

One AHIMS site was identified within a 1km radius of the study area (Figure 3 and Table 1). The site, an isolated stone artefact, was found to the east, and has been subject to a permit. No AHIMS sites occur within the study area.

Site No.	Site Name	Easting	Northing	Type	Contents
45-7-0344	St Brigids	367087	6327096	Isolated find	Stone artefact
45-7-0389	LM1	366147	6327061	Isolated find	Stone artefact

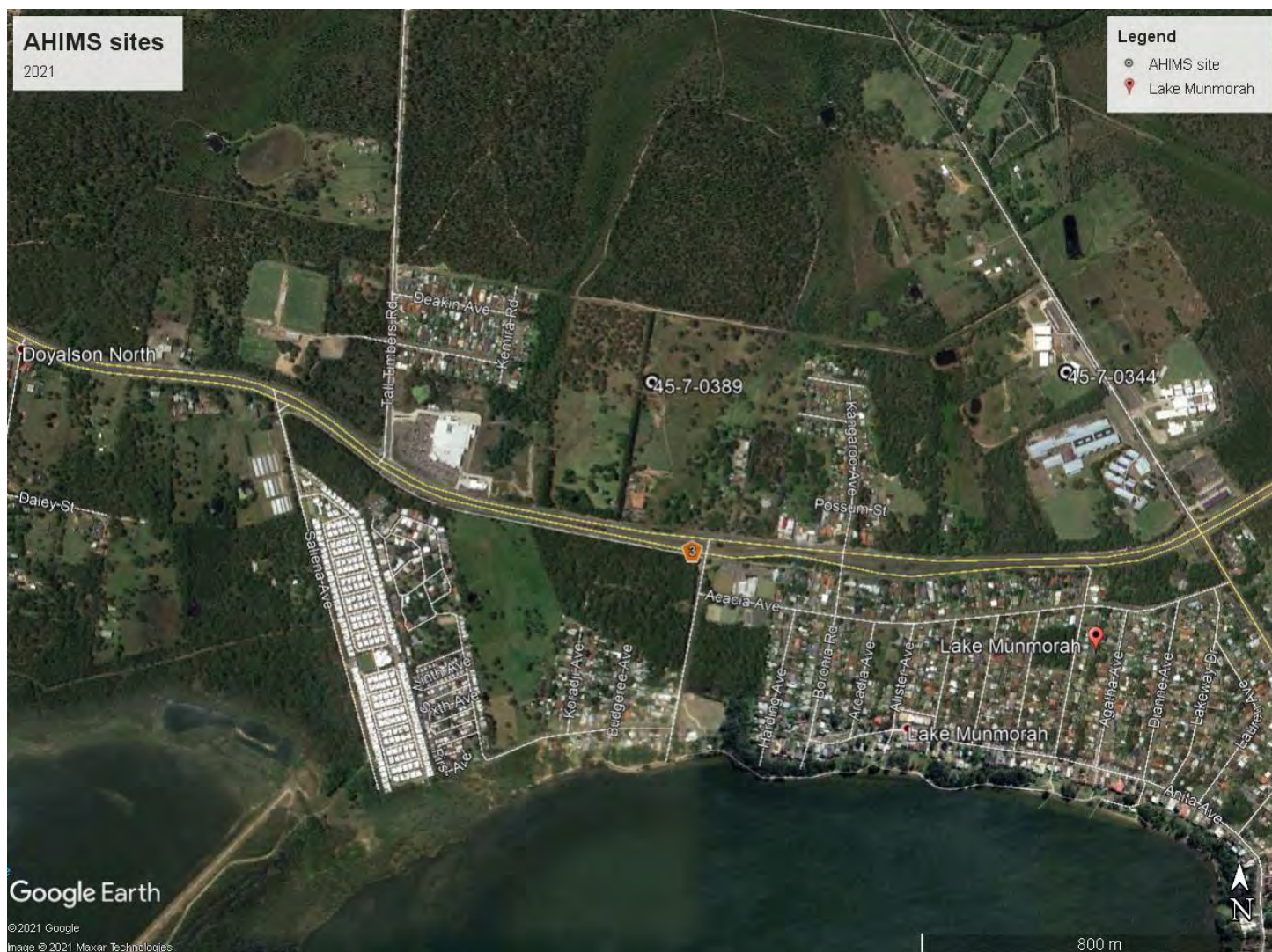


Figure 4 AHIMS site 45-7-0344 located within 1km of the study area to the east and 45-7-0389 recorded in 2019.

Landscape Context

The proposed development is located on the Doyalson Soil Landscape, typified by undulating low hills and rises, with local relief to 30 m and slope gradients of <10%. Broad crests and ridges and long gently inclined slopes, with broad drainage lines are also features of this landscape.

Brown loose sand and with coarse grained texture and single grained structure comprises the A horizon, the material is often water repellent where organic matter is high and weak sub-angular structure with rough ped fabric occurs. (Murphy 1993).

Vegetation prior to clearing comprised open-forest of *Eucalyptus haemostoma* (scribbly gum), *E. gummifera* (red bloodwood) *E capitellata* (brown stringybark), *Angophora costata* (smooth-bark apple), and *E. punctata* (thin-leaved stringybark) and *E paniculate* (grey ironbark). Understorey plants include hill banksia (*Banksia spinulosa var collina*), banksia (*Banksia oblongifolia*) and mountain devil (*Lambertia formosa*).

The study area is dissected by first order drainage line in the mid-east section of the site. The is broad and ill-defined, heavily grassed and does not currently hold water.

As shown in Figure 4 the site has been historically cleared and used for a variety of small-scale industry, including a tree stump stockpiles, mulch stockpiles and dog kennels. Sheet erosion is evident in parts of the property, particularly the western portion.

Predictive model

The desktop assessment of the study area indicates that there is a low to moderate probability of artefacts occurring across the study area, probably in low densities, given the environmental and landform context of the subject area.

Modified trees are unlikely to occur although mature angophora are present across the study area.

The isolated find recorded by Sharon Hodgetts at St Brigid's School to the east of the site is a tuff core. Based upon the site card, this core was located by monitoring of earthworks. It was an isolated find in an area of extensive construction disturbance. The site photos give the impression that if a denser camp site were located in the area, evidence would have been observed. An isolated find was also recorded in the broader study area

One possible explanation of the paucity of sites in the area may be the minimal freshwater available in the area. The broad undefined drainage channels of the area are in the Wyong soil landscape and quite likely to be bracken water.

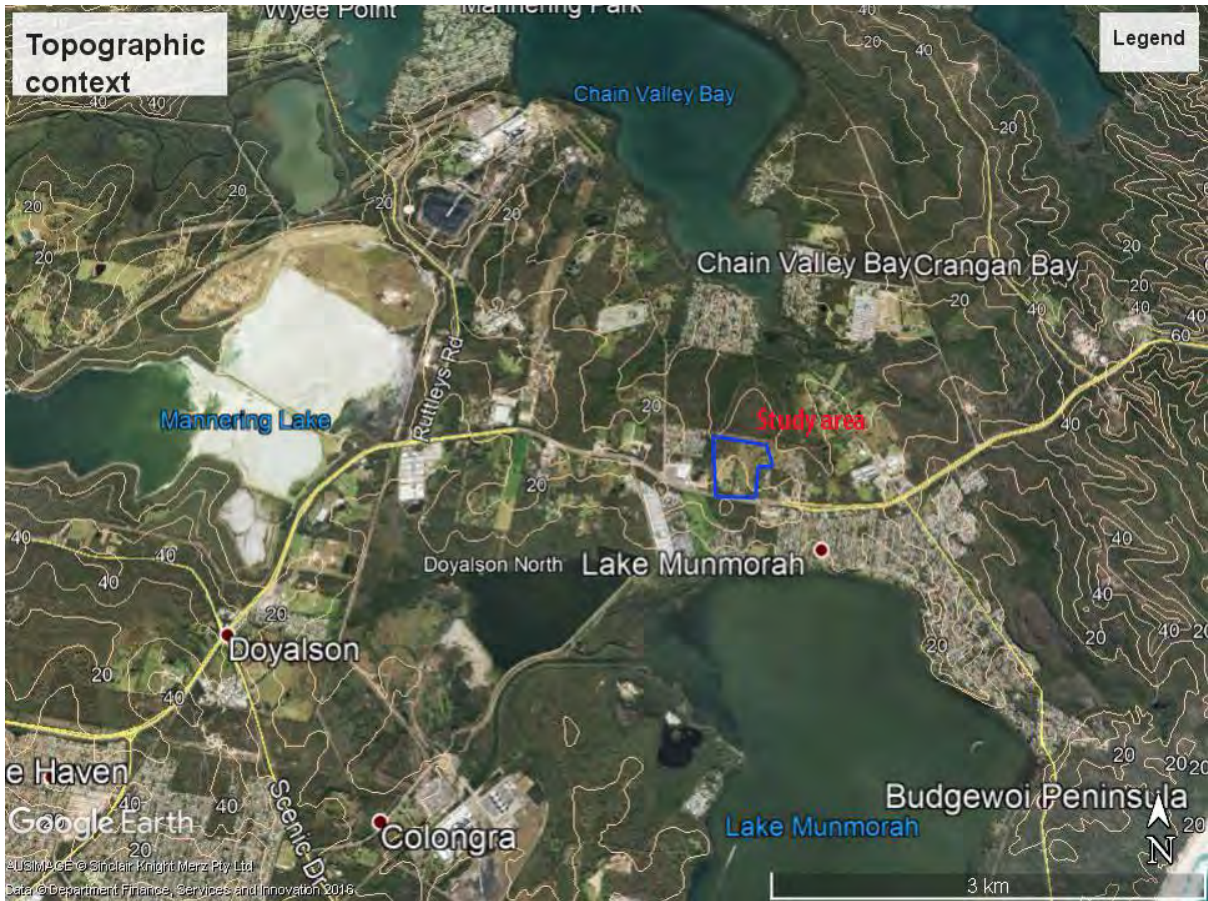


Figure 5 Topographic context of the study area

Field Inspection

The addendum site area was surveyed on the 4th May 2021 with Tracey Howie (Guringai TLC).

Transects were walked over the property covering the area of the proposed development. Each transect was two people wide covering approximately 20m. Transects are shown in Figure 6 and details provided in Table 1.



Figure 6 Transects addendum area 315 -335 Pacific Hwy – The area outlined in purple is developed and disturbed.

Table 1 Survey details

Transect	Total length transects	Total width of transects	Coverage	Visibility surface	Archae. Visibility	Total coverage
1	160 m	20m	320 sqm	50 %	90%	288 sqm
2	160 m	20m	320 sqm	50%	90%	288 sqm
3	130 m	20m	260 sqm	60%	90%	234 sqm
4	130m	20m	260 sqm	60%	90%	234 sqm
5	50m	20m	100 sqm	10%	90%	9 sqm
Total			1260 sqm			1035sqm



Plate 1 View north east mid section Transect 1 no. 325



Plate 2 Exposure mid transect 2



Plate 3 Exposure transect 3 no. 315



Plate 4 View west along transect 4.

Impact Assessment

No objects or potential archaeological deposit were identified in the addendum lots to the Post Gateway area to be gazetted.

The artefact has been recorded on no. 295 within the initial assessment area will be directly impacted by the residential development and associated earthworks, however no additional objects or relics have been identified.

Significance Assessment

The cultural significance of the addendum assessment area is low with negligible evidence of cultural material within the study area.

Management Recommendations

The artefact located will be impacted by the residential development on 295 Pacific Hwy therefore an AHIP will be required at the subdivision stage. There is no evidence of additional impacts within the addendum 315-335 Pacific Hwy study area.

The preferred management option for the isolated find on 295 Pacific Hwy is relocation

1. Collect and relocate to elsewhere on the property, such as the APZ area or the green corridor of the undefined drainage line, so the artefact remains on Country. The site will then be modified on AHIMS to show the new location.

Due to the extent of surface visibility and based on the landscape context, no further work is recommended for this site.

References

The Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (OEH 2010)

Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011)

Appendix A- Lake Munmorah AHIMS Search



SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-7-0344	St Brigids Individual Find 1	GDA	56	367087	6327096	Open site	Valid	Artefact :-		
	Contact		Recorders	Ms.Sharon Hodgetts				Permits	3704	
45-7-0389	LM 1	GDA	56	366147	6327061	Open site	Valid	Artefact :-		
	Contact		Recorders	Mrs.Angela Besant,Insite Heritage Pty Ltd				Permits		

Report generated by AHIMS Web Service on 11/05/2021 for Angela Besant for the following area at Lot : 63, DP:DP650114 with a Buffer of 1000 meters. Additional Info : inform dd.Number of Aboriginal sites and Aboriginal objects found is 2

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.

Appendix B – AHIMS site card 45-7-0389 – Located on 295 Pacific Hwy



Aboriginal Site Recording Form

AHIMS Registrar
PO Box 1967, Hurstville 2220 NSW

AHIMS site ID:

Date recorded:

Site Location Information

Site name:

Easting: Northing: Coordinates must be in GDA (MGA)

Horizontal Accuracy (m):

Zone: Location method:

Recorder Information

(The person responsible for the completion and submission of this form)

Title	Surname	First name
<input type="text" value="Ms."/>	<input type="text" value="Besant"/>	<input type="text" value="Angela"/>

Organisation:

Address:

Phone: E-mail:

Site Context Information

Land Form Pattern: Land Use:

Land Form Unit: Vegetation:

Distance to Water (m): Primary Report:

How to get to the site:

Other site information:

Site location map



Site contents information

open/closed site:

Site condition:

Features:

1.

Artefact

Number of features

1

Length of feature(s) extent (m)

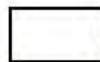
1

Width of feature (s) extent (m)

1

Scarred Trees

Scar Depth (cm) Regrowth (cm) Scar shape Tree Species



Description:

Isolated find located in an area of 30m x 20 m exposure 50% ground visibility 90% arch visibility artefact grey silcrete, fine grained 30x15x3mm

Features:

2.

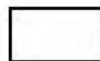
Number of features

Length of feature(s) extent (m)

Width of feature (s) extent (m)

Scarred Trees

Scar Depth (cm) Regrowth (cm) Scar shape Tree Species



Description:

Site photographs



Description:

Description:



Description:

Description:

Site restrictions

Do you want to Restrict this site?:

Restriction type: Gender General Location

Why is this site restricted?:

Further information contact

Title Surname First name

Organisation:

Address:

Phone: E-mail: