

ARCHAEOLOGICAL ASSESSMENT
OF
INDIGENOUS HERITAGE ISSUES
MENANGLE PARK DRAFT STRUCTURE PLAN

May 2010



Report prepared for APP Corporation Pty Ltd
on behalf of Landcom and Campbelltown City Council

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1. INTRODUCTION

This report was commissioned by Landcom and Campbelltown City Council. It details the assessment of Indigenous heritage values in relation to the Menangle Park Draft Structure Plan, building on previous studies (HLA Envirosciences 2004; JMcD CHM 2004, 2009). The current analysis uses the previous survey results and HLA findings, landscape analysis and assessment of previous land use disturbance. This analysis applies the strategic management model (JMcD CHM 2004) to the Draft Structure Plan and makes recommendations in relation to a meaningful management outcome in the Menangle Park Planning process. It also documents more recent contact and consultation with the Aboriginal community (including JMcD CHM 2009).

1.1 Background to the Project

The Menangle Park Urban Release area covers c.915ha five kilometres south-west of Campbelltown. The study area is owned predominantly by Landcom and Campbelltown City Council but also contains an area of multiple land ownership in the Menangle Park Village (see Figure 1).

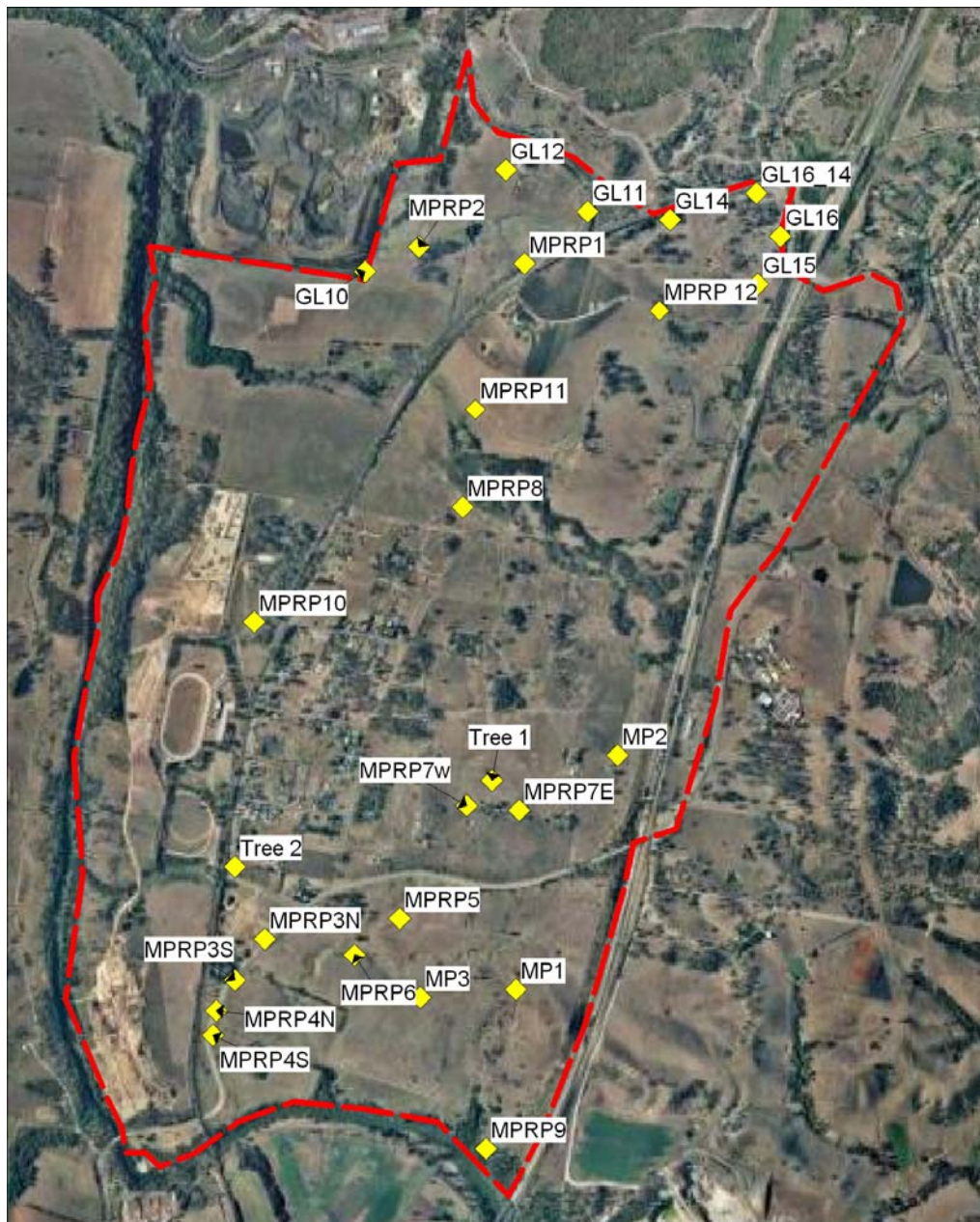
Figure 1: GoogleEarth map showing the study area (red).



1.2 Summary of HLA (2004) survey results

A total of 12 new surface sites and 10 previously recorded sites were documented and assessed by HLA (2004). The locations of these are shown on Figure 2. HLA undertook a survey of a representative sample of all terrain units within the Menangle Park study area, using a 5% stratified survey (transect & sample survey). Data relating to the environmental diversity and terrain characteristics of the study area was gathered and recorded. This approach was severely impeded by low ground surface visibility (HLA 2004: Table 5.8).

Figure 2: Surface site locations within the Menangle Park study area.



1.3 History of Aboriginal community consultation

Extensive liaison with Tharawal Local Aboriginal Land Council (TLALC) and the Cubbitch Barta Native Title Claimants Aboriginal Corporation has been undertaken since the inception of the initial Masterplan (HLA 2004). Members of these two groups participated in the field surveys at that time. At that time the communities identified the potential for flaked glass artefacts and scarred trees to be present generally in the Menangle Park area.

These two communities were again consulted when the additional planning and strategic management model for the Menangle Park area was developed (JMcD CHM 2004). At this time there was a planning workshop at Campbelltown City Council's offices in which they participated.

Both Aboriginal groups have continued to indicate their interest in the decision making processes and any archaeological work proposed for the Menangle Park area (HLA 2004: Appendices A and B; JMcD CHM 2004, 2009).

When the current Indigenous heritage assessment was commissioned in 2007, a public notice was lodged in the Campbelltown Advertiser and the Koori Mail advertising for interested parties to participate in the development of the Masterplan assessment. As well as the TLALC and CBNTC, three Darug groups expressed an interest in this area – Darug Tribal Aboriginal Corporation, Darug Custodians Aboriginal Corporation and Darug Aboriginal Cultural Heritage Assessments (see Appendix 1). Work progressed slowly on the project. Copies of the 2004 reports (HLA and JMcD CHM) were sent to the three Darug groups for their information in December 2007.

In early 2008, the negotiated boundaries of the Darug Tribal Aboriginal Corporation Native Title claim were moved further northwards – and the Menangle Park area no longer falls within their identified area of interest.

In November 2009, contact was made with DECCW 's Miranda Firman (Aboriginal Heritage Officer) who confirmed that Menangle Park is now south of the recognised Darug boundary. A telephone conversation with Leanne Watson (DCAC: 26.11.09) confirmed that Cubbitch Barta and Tharawal should be the only ones to do the work there and that she is happy that they discuss what they do and is satisfied that they are doing a good job. She said that she would like to be sent a copy of the final report and be kept informed but does not feel it necessary to be further involved.

Both the Tharawal LALC and Cubbitch Barta were involved in the test excavations in West Menangle Park in relation to a proposed sand extraction project. Both groups participated fully in the development of the research design, in the fieldwork and in providing management recommendations. A copy of that draft report was forwarded to both groups for their comment. Feedback from the Aboriginal representatives indicated that they would like a conservation outcome from this smaller development area and Landcom investigated options for conserving the area of good archaeological potential deposit. The Aboriginal community had also indicated the corridor(s) along the Nepean River and up Howes Creek were areas of cultural significance. Discussions with Mr James Belford (Landcom) indicate that the development activities in the vicinity of Howes Creek will result in the rehabilitation of this creekline to its natural

state. Further discussions between Landcom and the Aboriginal community may be able to reach a resolution on the use and conservation of this feature, as the rehabilitation of the creeklines to its natural state is not necessarily contradictory to the Community's desires to see this feature preserved.

The community reports from Cubbitch Barta and Tharawal LALC in response to the sand mining proposal are included in Appendix I.

When the Draft Structure Plan was finalised – and this report written – the draft was circulated to Cubbitch Barta and Tharawal LALC for their comment. A meeting was held in March 2010 to continue the consultation process and to identify areas of significance and continuing concern to the Aboriginal community. The Aboriginal community and proponent have identified areas that Indigenous heritage conservation could be achieved. These are areas with high cultural value and high scientific value which fall in lands which have been identified for future open space and riparian corridor. These areas will need to be zoned appropriately to ensure their long term protection. An Aboriginal Heritage Management Plan will also need to be devised for this purpose and to identify a programme of further archaeological work to salvage areas with high scientific and cultural values which will be impacted by development.

2. SENSITIVITY ASSESSMENT

In 2004 a strategic management model was devised for the Menangle Park Release Area based on a previous land-use impact assessment. The study area has undergone a variety of previous land use disturbance impacts which have affected the ground surface and sub-soil. Major disturbance results in the damage and/or destruction of Aboriginal archaeological sites.

In order to quantify the previous land use impacts across the study area, aerial photo interpretation and analysis was undertaken. The boundaries were mapped using scanned images of colour air photos in MapInfo, with references to the 1:4k Orthophotomaps.

This mapping has only been tested in the West Menangle sand extraction area (JMcD CHM 2009). The test excavations at West Menangle identified only low densities of artefacts in much of the study area – with one area of good sensitivity (Figure 3). These results have been combined with the land use mapping to refine the overall zoning map – for that area. The following impact category definitions were used (following JMcD CHM 1997, 1999, 2002a):

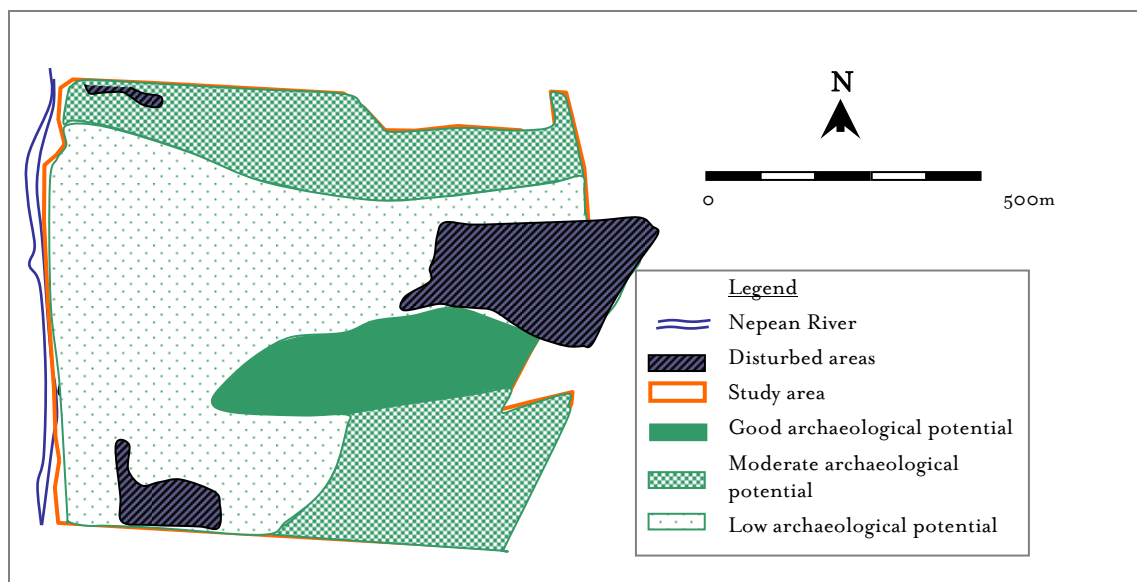
<u>High disturbance</u> -	Severe disturbance to the soil. Buildings, houses, suburbs, roads, market gardens, poultry farms, BMX tracks, rubbish tips, formed tracks, dams, drains and other excavations.
<u>Moderate disturbance</u> -	Cleared of trees at some time, cultivated or extensive soil disturbance probable – caused by machinery or extended periods of trampling. Much of this area has been used for small agricultural pursuits such as orchards, and the remainder carries improved pasture.

Low disturbance - Partly cleared and grazed at some time, but apparently never subject to extreme soil disturbance.

The archaeological zoning for the West Menangle sand mining study area is shown (Figure 3). The overall Menangle Park study area's zoning has been modified in light of the test excavation's results (Figure 4) – and includes an area identified by the Aboriginal community as having cultural values¹.

Refined calculations of sensitivity zone proportions across the subject lands are shown (Table 1). Almost one third of the study area (32.2%) has suffered high previous land use impact (Table 1, Figure 4). Over half (55%) has suffered moderate levels of previous disturbance, while a relatively small remainder (c.11%) has had only low levels of disturbance.

Figure 3: Archaeological zoning in the West Menangle sand mining area.



These land disturbance categories can be translated into Archaeological Sensitivity Zones: those areas with low levels of disturbance have high levels of archaeological potential while areas already highly disturbed have low to no archaeological potential. To assist in the assessment of each site's individual significance, the landuse mapping (Figure 4) has been reinterpreted as one of archaeological sensitivity (Figure 5). Three zones are identified:

- ⊗ Zone 1 – Good archaeological potential
- ⊗ Zone 2 – Moderate Archaeological Potential
- ⊗ Zone 3 - Low (or no) archaeological potential

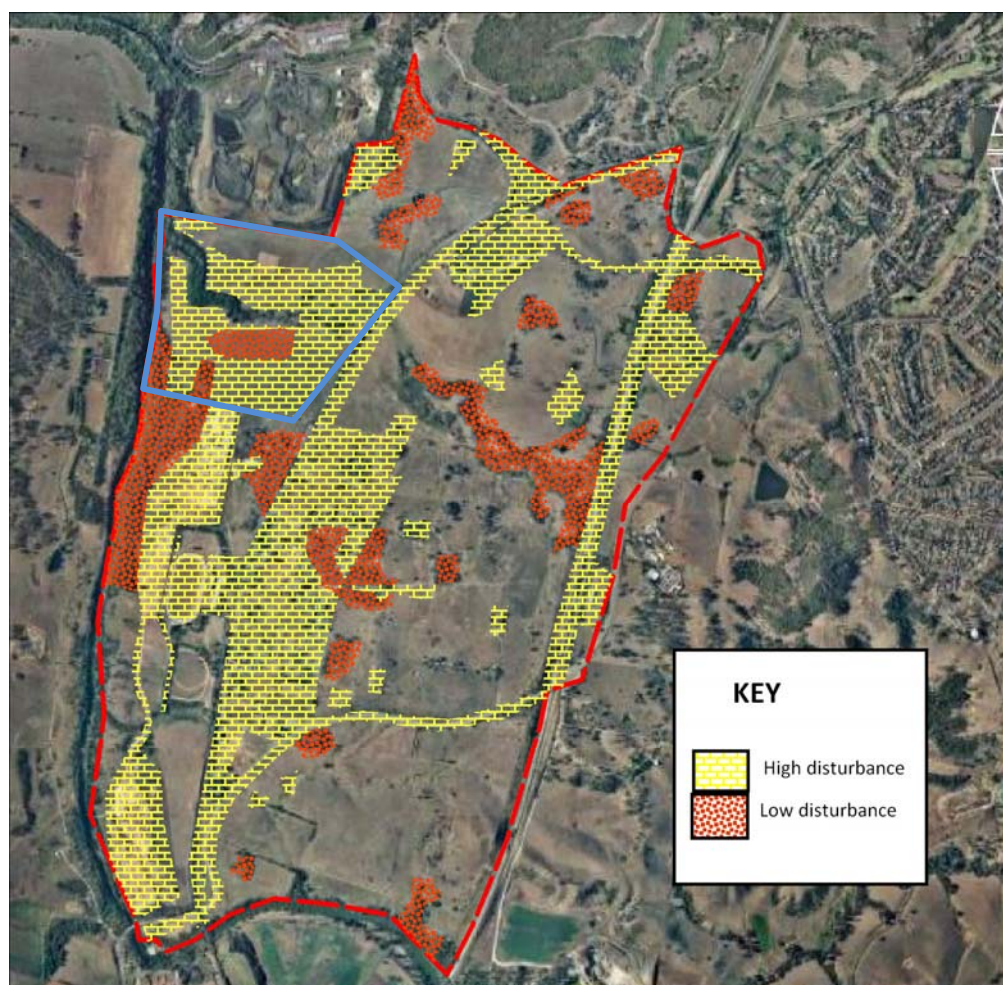
¹ Areas of scientific significance may or may not have cultural significance and vice versa. The Aboriginal community has indicated that they have significant interests in the Menangle Park area generally.

Table 1: Menangle Park Release Area: Archaeological Sensitivity Zones. Note that the only area where cultural significance has been mapped so far is within the West Menangle Sand mining area.

Sensitivity zones	Archaeological potential	Cultural significance	Area (ha)	%f
Zone 1	Good		102.8	11.2
		High	12.7	1.4
Zone 2	Moderate		504.1	55.1
Zone 3	Low		295.4	32.2
			915	99.9

These land-use impact zones are important in assessing the potential of the land in the study area to contain intact archaeological deposit – and hence areas which have conservation potential. These zones, combined with an assessment of representative landscapes within the subject land, form the basis for conclusions about the conservation of cultural landscapes within the study area (see below).

Figure 4: Disturbance Mapping (areas not coloured are moderately disturbed). Location of sandmining area (Figure 3) outlined in blue: this area subject to separate study to assess Indigenous heritage values (JMcD CHM 2009).



A number of areas with good Potential Archaeological Deposit (PAD) can be inferred on the basis of land use mapping (Figure 4). These areas - combined with those identified as having cultural values can be re-interpreted as archaeological sensitivity mapping (Figure 4). At this stage individual PAD (Potential Archaeological Deposit) locations have not been individually identified. These are defined as broad zones of potential.

Sub surface investigation will be required to better understand the Indigenous heritage resource across the Menangle Park Release area. The Aboriginal community has assisted in more detailed mapping of cultural values across the Menangle Park area in response to the draft of this report.

3. DISCUSSION

3.1 Aboriginal Heritage

Twenty-two surface open sites have been recorded within the study area (McDonald 1990, Corkill and Edgar 1991, Dibden 2002a, 2002b, 2003a, 2003b; HLA 2004). The locations of these are shown (Figure 2). A number of areas with Potential Archaeological Deposit are also identified within the current study area. These are defined on the basis of land use mapping which has been translated into archaeological sensitivity mapping (Figure 5). At this stage individual PAD (Potential Archaeological Deposit) locations have not been individually identified. These are defined as broad zones of good potential (Zone 1). Areas of cultural significance have also been mapped (Figures 5-7).

In order to appropriately manage the identified indigenous heritage items in the study area, these need to be assessed for their archaeological and social significance. This report deals primarily with archaeological significance, but discussions with the Aboriginal community also indicate that there are areas of social significance in the Release Area. This assessment includes a consideration of landscapes within the current study area. It also includes identifying which areas have archaeological sensitivity (based on previous landuse impact), and those which are locally (and regionally) threatened. These two factors contribute to the assessment of high conservation potential.

These zones have been used to assist in the assessment of the sites and landscapes within the Menangle Park study area.

Regional Landscape analysis

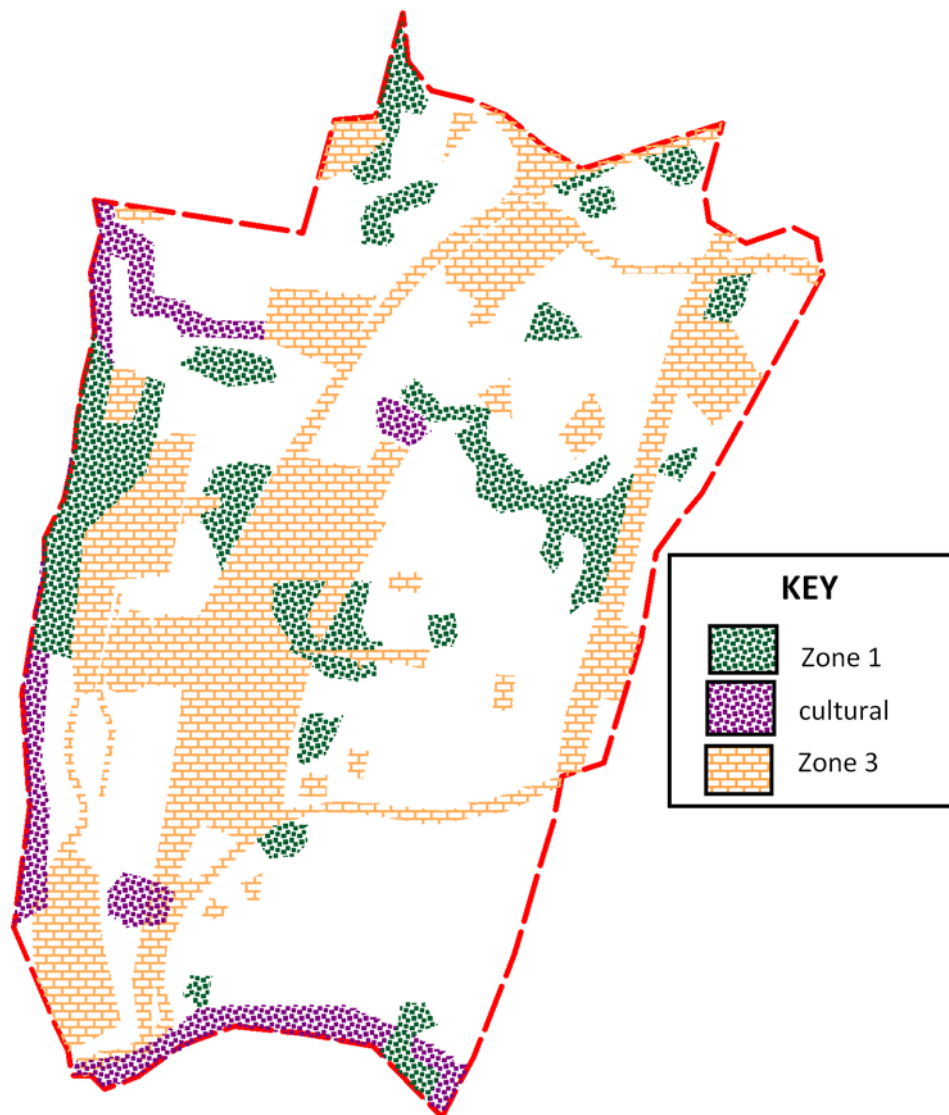
Previous analyses have shown that the following landscapes and topographic elements (in good condition) are rare across the northern Cumberland Plain (JMcD CHM 2000). These represent higher value landscapes, in terms of local conservation requirements.

Aboriginal sites located in these landscapes would have intrinsically higher conservation potential, since the number of such sites likely to be remaining in the Cumberland Plain, is low. The high value landscapes are:

- ☉ Shale hillslopes (Minchinbury and to a slightly lesser degree, Ashfield);

- ⊗ First order tributary creeklines; and,
- ⊗ Shale ridgelines and low ridgetops (particularly Minchinbury and Bringelly).

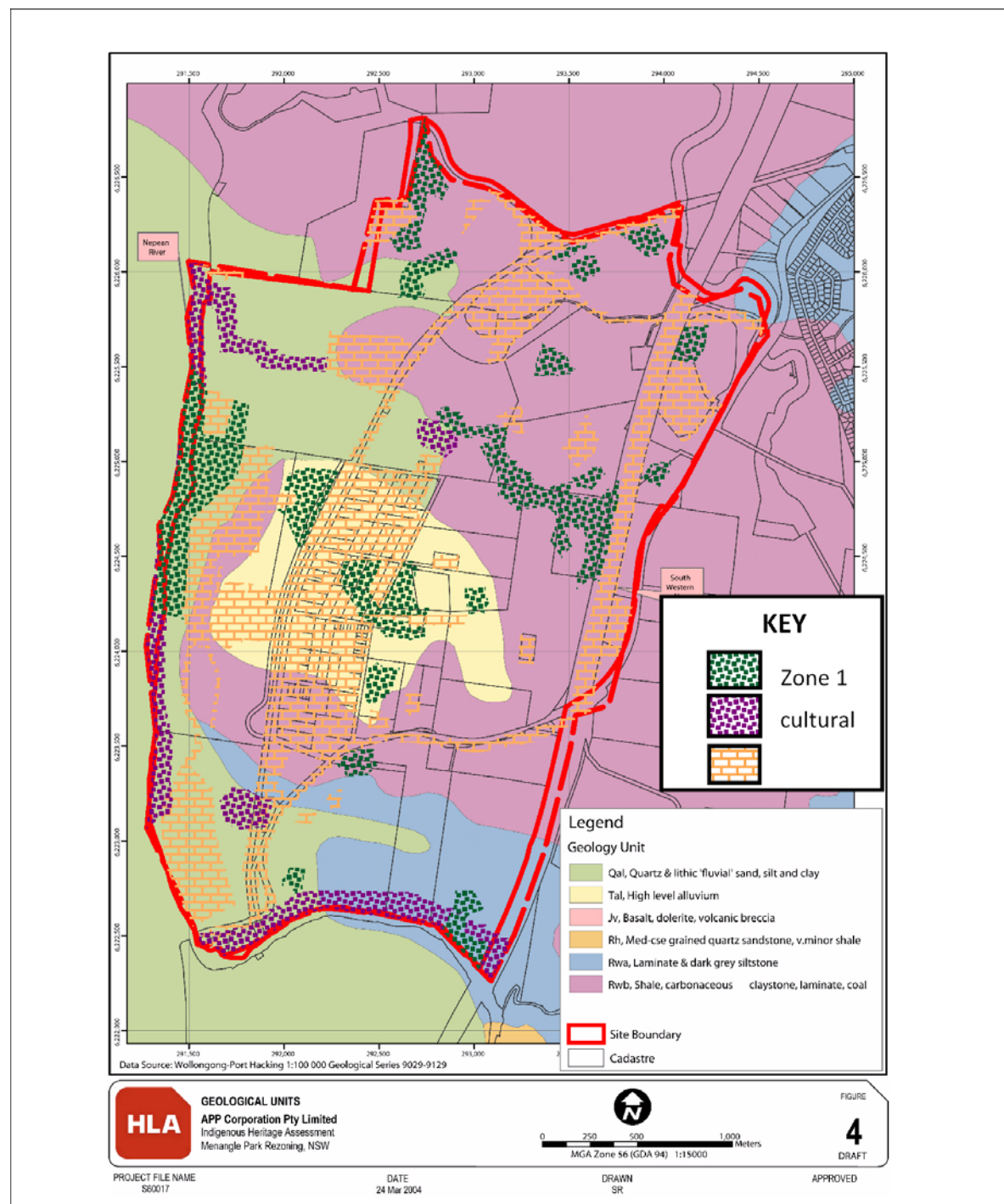
Figure 5: Archaeological and cultural sensitivity zones within the Menangle Park Study area. White areas are Zone2.



In the Southern Cumberland Plain - and particularly near its southern margins - there has been less intensive landscape assessment and previous detailed archaeological work. Our understanding of the archaeology of this area is less well developed. Several locations within the Menangle Park lands are landscapes in good condition with high regional conservation value (e.g. hillslopes, low ridges: see Figure 4).

Conversely, lands which have already been impacted by various factors have low archaeological sensitivity (Zone 3). These areas could be considered to have no archaeological constraints (see Figure 6).

Figure 6: Archaeological (Zone 1) and cultural sensitivity Menangle Park showing geology (from HLA 2004). Zone 3 has no sensitivity.

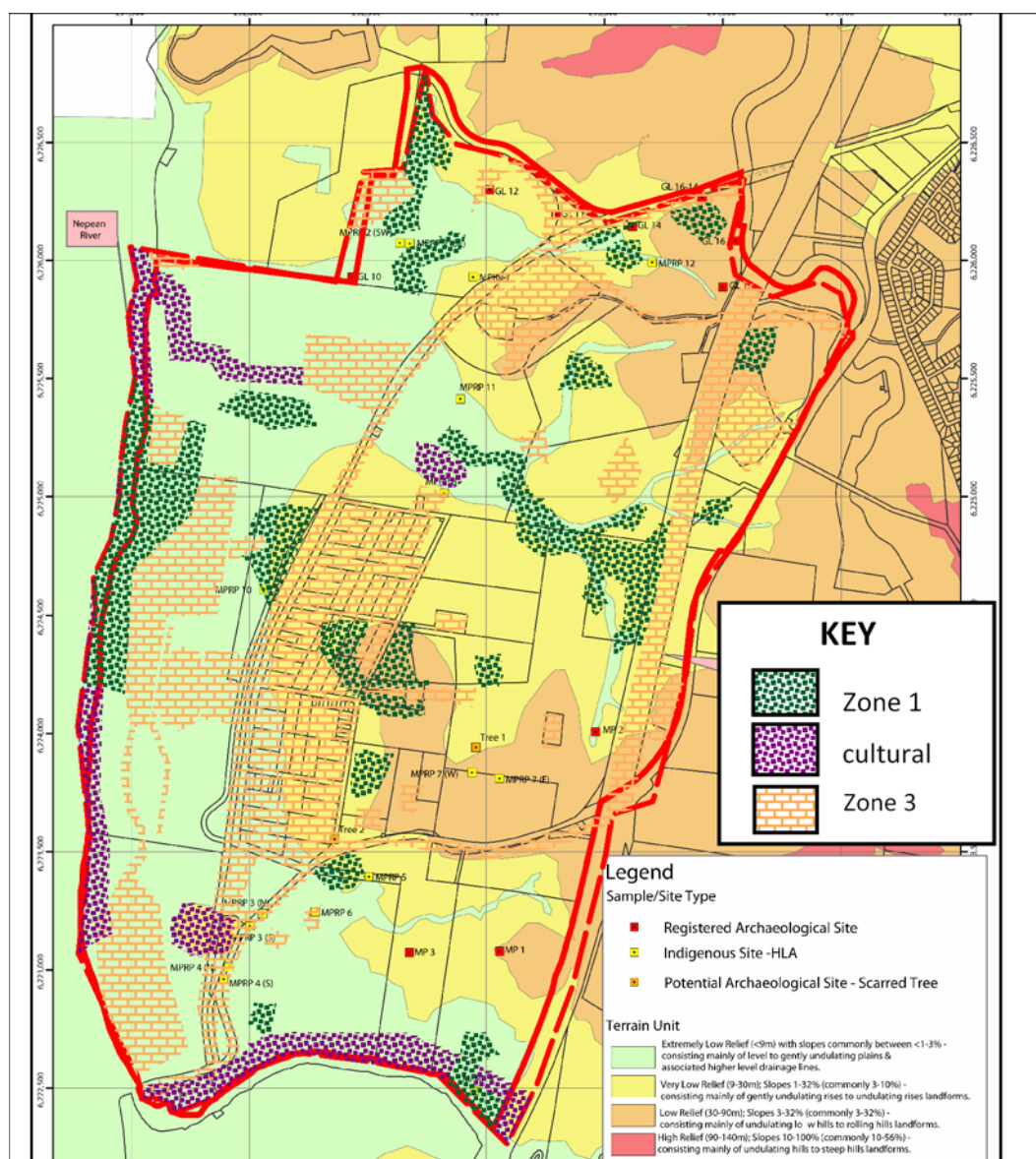


Site Assessment

The appropriate management of cultural heritage items is usually determined on the basis of their assessed significance as well as the likely impact of the proposed development. Scientific, cultural and public/education significance are currently

identified as baseline elements of this assessment, and it is through the combination of these elements that the overall cultural heritage values of a site, place or area are resolved.

Figure 7: Archaeological (Zone 1) sensitivity, cultural sensitivity and surface sites in Menangle Park showing terrain units (as defined by HLA 2004).



Cultural significance

This type of assessment indicates the importance of a site or features to the relevant cultural group - in this case the Aboriginal community. Aspects of cultural significance include assessment of sites, items, and landscapes that are traditionally significant or that have contemporary importance to the Aboriginal community. This importance involves both traditional links with specific areas as well as an overall concern by Aboriginal people for their sites generally and the continued protection of these. This

type of significance may not be in accord with interpretations made by the archaeologist - a site may have low scientific significance but high Aboriginal significance (or vice versa).

Scientific significance

Assessing a site in this context involves placing it into a broader regional framework, as well as assessing the site's individual merits in view of current archaeological discourse. This type of significance relates to the ability of a site/landscape to answer current research questions. It is also based on a site's condition (integrity), information potential and representativeness and/or rarity (see above).

Public significance

Sites that have public significance do so because they can educate people about the past. By reducing ignorance about why sites are important to the Aboriginal and scientific community, our human heritage can be protected from inadvertent destruction. For a site to have high public significance it should contain easily identifiable and interpretable elements, and be relatively easily accessed.

Assessment of Menangle Park archaeological significance

The **cultural significance** of the area has been addressed previously by the Tharawal LALC (TLALC) and Cubbitch Barta (Appendix 1) and more recently at the community consultation meeting held in Campbelltown on 22nd March 2010. The TLALC and Cubbitch Barta participated in previous survey of the subject land and HLA undertook extensive liaison with the communities for their original Masterplan assessment. A number of concerns were raised by the Aboriginal community representatives in 2004, namely the further assessment of potential scarred trees and flaked glass artefacts in all areas of the Menangle Park Urban Release area. More recent consultation on the sandmining proposal within the Menangle Park Release Area has identified more tangible areas of cultural significance, namely the banks of the Nepean River and Howes Creek. At the community council meeting, Ms Glenda Chalker also indicated that the knoll at the southern end of the Study area (this is cut by Menangle Road), and a freshwater spring downslope of site MPRP8 were also of cultural significance. Discussions on the 22nd March included strategies for incorporating these areas into a cultural heritage conservation outcome within the Release Area. These areas have now been mapped (Figure 9).

Both communities have indicated that they wish to be involved in further decision making processes and any further archaeological work across the Menangle Park Area.

The **public significance** of the sites across Menangle Park is assessed as being generally low based on their poor surface manifestations. Open sites are extremely difficult to appreciate by a lay-public due to the 'invisibility' of the evidence present.

The **scientific significance** of open sites and PADs cannot be easily assessed on the basis of their surface manifestation(s). Instead, an assessment of archaeological potential is

made, based on the landuse mapping (and archaeological sensitivity zones) and the predictive model.

The following assessment is made for the identified surface features that were previously identified within Menangle Park Urban Release area (Table 2). It is notable that most were found in areas with moderate to high previous disturbance: there is a direct correlation between subsurface disturbance and surface artefact visibility being indicated (i.e. it is rare to find surface artefacts in undisturbed locations, where they remain buried below the aggrading land surface).

Table 2: Summary of assessed significance/potential of identified site and areas with archaeological potential (PAD).

NPWS	Site name	Soil	Topography	Surface Artefacts	Terrain Unit	Disturbance	Sensitivity Zone
52-2-1597	MP1	Rwa/Bt	Ridge	2	Low Relief	Mod	2
52-2-2274	GL 15	Rwb/Bt	Hillock	5	Low Relief	High	3
52-2-2281	GL 16	Rwb/Bt	Mid slope	1	Low Relief	Moderate	2
52-2-2271	GL 14	Rwb/Bt	Mid slope	1	Low Relief	Moderate	2
	MPRP 7	Tal/Bt	Mid slope	5	Low Relief	Moderate	2
52-2-1607	MP3	Qal/Bt	Ridge	7	Very low relief	Moderate	2
52-2-2276	GL 11	Rwb/Bt	Open depression	1	Very low relief	Moderate	2
52-2-2275	GL 12	Rwb/Bt	Stream	1	Very low relief	Moderate	2
52-2-2269	GL 14	Rwb/Bt	Mid slope	1	Very low relief	Moderate	2
	MPRP 1	Rwb/Bt	Mid slope	12	Very low relief	Moderate	2
	MPRP 5	Rwb/Bt	Lower slope	2	Very low relief	Moderate	2
	MPRP 7	Tal/Bt	Mid slope	5	Very low relief	Moderate	2
	MPRP 12	Rwb/Bt	Open Depression	1	Very low relief	Moderate	2
52-2-1598	MP2	Rwb/Bt	Open Depression	7	Extremely low relief	Moderate	2
52-2-2280	GL 10	Qal/TP	Flat	9	Extremely low relief	Moderate	2
	MPRP 2	Qal/TP	Flat	40	Extremely low relief	Moderate	2
	MPRP 2A	Qal/TP	Lower slope	1	Extremely low relief	Moderate	2
	MPRP 3	Rwa/TP	Lower slope	5	Extremely	Moderate/High	2/3

NPWS	Site name	Soil	Topography	Surface Artefacts	Terrain Unit	Disturbance	Sensitivity Zone
					low relief		
	MPRP 4	Qal/TP	Lower slope	1	Extremely low relief	Moderate/High	2/3
	MPRP 6	Rwa/TP	Mid slope	3	Extremely low relief	Moderate	2
	MPRP 9	Rwa/Bt	Open Depression	6	Extremely low relief	Moderate	2
	MPRP 10	Tal/TP	Flat	1	Extremely low relief	Moderate/low	2/1
	MPRP 11	Rwb/Bt	Lower slope	3	Extremely low relief	Moderate	2

There are various PAD areas which are assessed as having good-high archaeological potential and many of these are in landscapes which are underrepresented in the regional context.

3.2 Applying the conservation strategy

As with various previous developments across the Cumberland Plain (JMcD CHM 2001, 2002, 2003, 2004, 2008; McDonald 1996) a strategic management approach to Indigenous cultural heritage has been recommended for the Menangle Park Release.

This strategy should be based both on scientific and cultural (or social) values. By identifying the range of representative landscapes with the best conservation potential, and by including identified areas of Aboriginal significance - and targeting these for conservation - a meaningful management outcome is usually achieved.

A strategic Indigenous heritage management strategy aims to conserve a representative sample of intact landscapes and to ensure that a range of human responses (represented by the archaeology) are protected. Rather than targeting only sites of known extent or known significance (e.g. through sub-surface investigation), zones based on landscape parameters have been defined, and these areas are to be managed on the basis of their conservation potential.

Most archaeological sites in western Sydney – and with the Menangle Park area – are open stone artefact scatters. Different types of artefact scatters provide information on the different ways that the Plain was used by Aboriginal people. It is the variety of site types which have the potential, through their content and arrangement across the landscape, to provide the details which will enhance our general understanding of prehistoric human occupation on the Cumberland Plain. A variety of sites and types of archaeological evidence are likely across the Menangle Park lands because of the range of environmental landscapes present, and because a large proportion of these are relatively undisturbed.

The general principles for a Strategic Management Model are as follows:

- ✎ The primary selection criteria for the conservation strategy is identified landscapes which have been minimally disturbed by land-use practices over the last 200 years;
- ✎ A similarly important criteria for the selection of conservation areas is that these landscapes must provide, and be representative of, the range of landscapes present across the study area;
- ✎ An additional criteria is that regionally threatened landscapes, sites of recognised regional significance (i.e. rarity) and areas of significance to the Aboriginal community should be included within the conservation area, as long as these are minimally undisturbed by previous land use disturbance;
- ✎ Areas are also assessed on the basis of a predictive model of Aboriginal site occupation on the Cumberland Plain, since some areas have a greater potential to contain archaeological sites of high significance than others;
- ✎ Landscapes which have been comprehensively disturbed by sub-surface soil removal or rearrangement are of limited potential for archaeological sites. These require no further archaeological investigation and pose no constraint for development.

Three zones are devised for the Menangle Park Urban Release Area. Each of these has a different designated management outcome (Table 3).

Table 3: Management zones showing management outcomes

Management Zone	Archaeological sensitivity	Management outcome
Zone 1	High potential for intact archaeological evidence	Conservation zone (CCZ) to be selected from this zone. Remainder to be developable
Zone 2	Moderate potential for intact archaeological evidence	Developable land. Some landscapes may require further work before clearances given.
Zone 3	Low - no potential for intact archaeological evidence	Developable land with no constraints – no further archaeological work required

Zone 1 is identified as the potential conservation zone. Conservation areas would come from lands within Zone 1 and no development would take place within these. The conservation area would be managed into the future on the basis of its Aboriginal (and scientific) heritage and environmental values.

No archaeological investigation would take place within the lands which are to be conserved. Protocols and strategies would need to be developed for the management of this conservation area. Zone 1 lands which cannot be conserved should be the subject of a salvage (mitigation) exercise (see below).

The land falling outside the defined conservation area would all be deemed developable.

The developable land has also been ranked for its archaeological sensitivity and contains landscapes that are Zone 2 and 3. The SMM presumes that while containing varying sensitivity zones, that these will be developed; i.e. that the archaeology in these areas would be impacted upon by a range of development proposals.

Differing levels of management are required, depending on defined management principles and protocols. Landscapes within the developable lands with moderate sensitivity (e.g. Zone 2) may require further archaeological investigation. Archaeological evidence should be salvaged from a representative range of Menangle Park landscapes to document the archaeological evidence which is likely to be retained within the conservation area along with that which will be destroyed by development.

Zone 3 is assessed as having minimal or no archaeological potential. There is no constraint to development in these areas, and no further archaeological works would be undertaken in these areas. It should be noted that the Aboriginal community may wish to monitor development which takes place in this zone, particularly along stream lines and waterways.

The identification of lands with high values, and subsequent planning to accommodate the conservation of these is seen to have a dual benefit. There is a valid and sustainable conservation outcome (in keeping with the cultural heritage management best practise) and there is security of development progress in lands identified as developable. A spin-off of this latter aspect is that "whole of development" section 90 Aboriginal Heritage Impact Permits would be granted by DECCW NSW for Aboriginal "objects" on the basis that there is a conservation outcome. This means that there would not be a requirement for a site-by-site section 90 process, based on individual impacts across the subject land.

3.3 Management Principles

Based on the regional archaeological context, current research questions, regional landscape analysis and landuse mapping, the following general management principles should apply for sites and landscapes with Aboriginal heritage values at Menangle Park.

- ⊗ Sites and/or landscapes with high archaeological potential or Aboriginal significance (particularly in threatened landscapes) should be avoided, retained and protected in open space;
- ⊗ Sites and/or landscapes with moderate archaeological potential or Aboriginal significance should be avoided if possible and/or a range of management options considered e.g. subsurface investigation to properly assess their scientific significance, covenants on Lots, small open reserves, or if necessary, section 90 *Aboriginal Heritage Impact Permit* from the Director-General DECCW NSW. Management should be based on assessed significance.
- ⊗ Sites and/or landscapes of low or no archaeological potential or Aboriginal significance do not require planning consideration or further archaeological investigation in relation to the proposed development. If they cannot be avoided by

the proposed subdivision then section 90 *Aboriginal Heritage Impact Permit* from the Director-General DECCW NSW should be sought. The Tharawal LALC or Cubbitch Barta may wish to collect any surface artefacts prior to their destruction and monitor the initial construction activity in their vicinity.

Archaeological sub-surface investigation is likely to be required where there is a proposed development impact in the study area, which falls within the *developable areas* designated Zone 1 or Zone 2.

Development impacts occurring within Zone 3 lands would not require further archaeological investigation.

3.4 The Menangle Park Draft Structure Plan and heritage management

The conservation strategy and the principles and management protocols can now be applied to the Draft Structure Plan (Figure 8). The identification of potential conservation area(s) within the proposed layout can now be determined (Figure 9).

Given that the archaeology of this part of the Cumberland Plain is not well known, it is proposed that the representative range of landscapes here should ideally be targeted for conservation. All zone 1 (and some zone 2) lands should be considered as potential conservation areas.

3.5 Impact of the Draft Structure Plan

When the draft structure plan (Figures 8) is overlain on the sensitivity mapping (Figure 5) the impact of the proposed development on areas of archaeological and cultural sensitivity can be assessed.

The focus of urban development will be around the existing Menangle Park settlement, with employment land concentrated to the north of the Release Area. A new road link (Spring Farm Parkway) is to be constructed across the north of the area – and this is seen by Council as an imperative component of the development. Around the western periphery of the subject land (along the Nepean River) is a strip designated for riparian conservation. The north-draining main tributary will have a mixed riparian and open space zoning (with mixed active and passive recreation). Offline drainage basins will also be located within this open space corridor.

Figure 8: Menangle Park Revised Structure Plan.

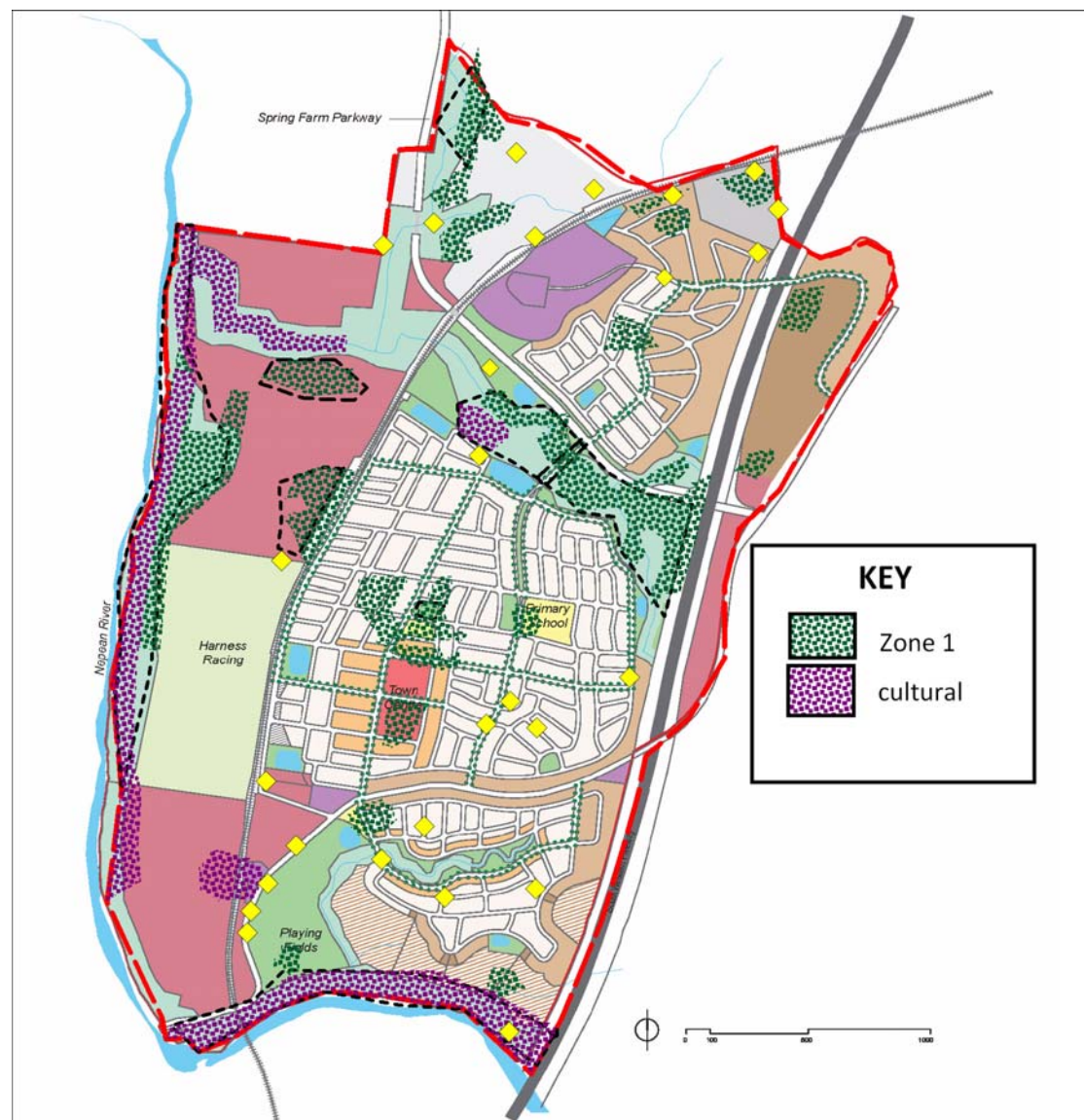


A number of the Zone 1 areas are accommodated by this proposed layout (Figure 9). These areas are good candidates for conservation. At the meeting on March 22, Landcom has also indicated that conservation of the area with high archaeological significance in the Sand Mining Area (west of the railway line) can also be conserved –

on the understanding that plantings and rehabilitation of the length of the Howes Creek and Nepean corridors and allowance for the road crossing of Howes Creek is proposed.

An assessment of the terrain units and landscape parameters (Figures 5 and 6) indicate that conservation of several representative landscapes will not be achieved by the DSP.

Figure 9: Menangle Park Draft Structure Plan overlain with Zone 1/culturally sensitive land. Possible conservation zones within the DSP zonings are outlined in black.



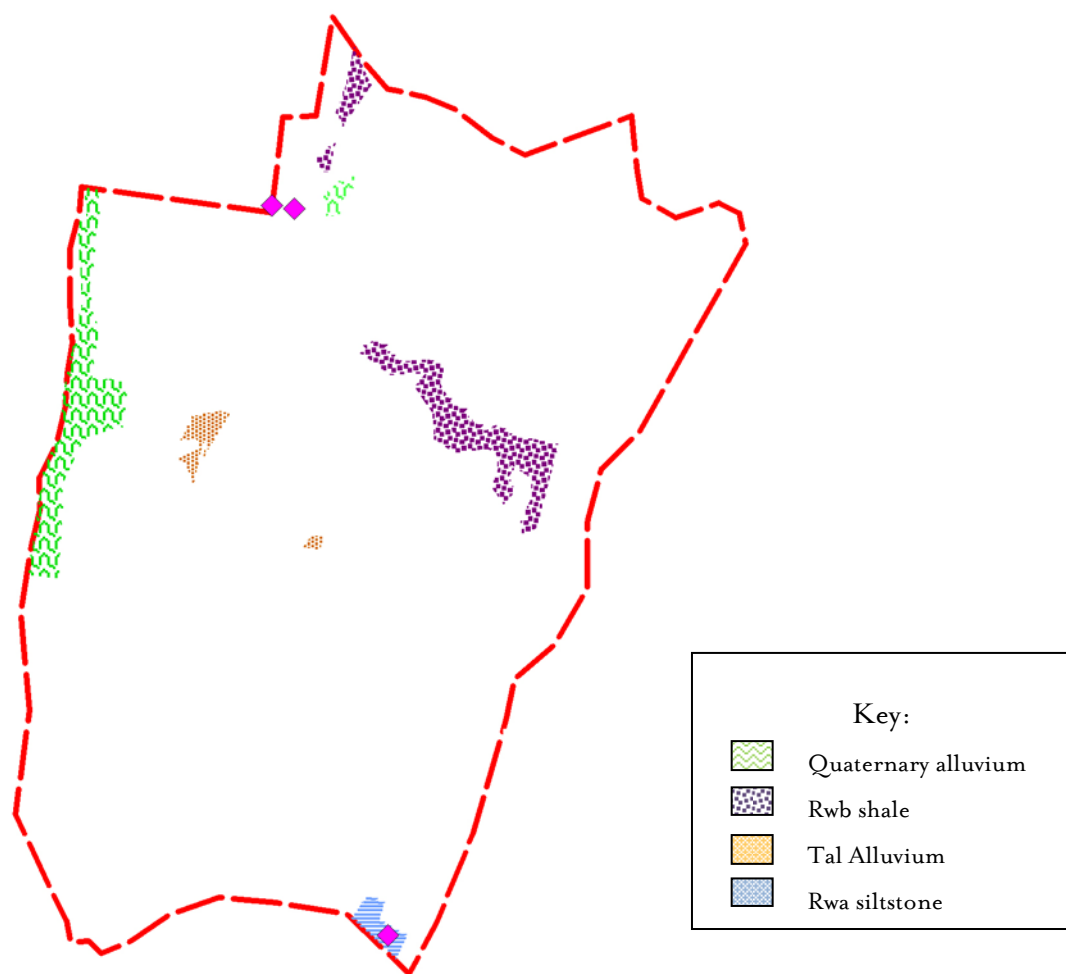
In particular the higher slopes in the northern and eastern parts of the study area are all to be impacted (either by residential or employment zones) with no opportunity for a conservation outcome here. Similarly the Shale (Bringelly and Ashfield) units and the Tertiary Terrace in the centre of the Menangle Park area will be affected by the Town Centre – and Units are underrepresented in this conservation outcome.

While representativeness is an issue, however, there is potentially a 47% capture of the high sensitivity areas within the open space/riparian corridors (Figure 10). And the broader open space/riparian corridor system has the potential to conserve landscapes which have also been identified as culturally significant. About a third of the land identified as being moderately significant (Zone 2: Table 4) also falls within the open space/riparian corridors.

Table 4: Menangle Park Draft Structure Plan: Archaeological Sensitivity Zones in Open Space.

Sensitivity zones	Archaeological potential	Cultural significance	Area (ha)	Area in Open Space	%f	Open space + riparian (ha)
Zone 1	Good		102.8	48.7	47%	210.9
Zone 2	Moderate		504	132.2	26%	210.9

Figure 10: Zone 1 lands in Riparian/open space – coded for different geology – and also showing the three registered surface sites which fall within open space/riparian corridors (pink diamonds).



The final selection of lands to be conserved within the DSP requires further discussion with the regulators (DECCW). Discussions between the Aboriginal community, the client (and their landscape planners) and Campbelltown Council have indicated that appropriate zoning of open space can ensure an appropriate and sustainable management outcome. This report should form the basis for those future discussions. Once final decisions about the conservation outcome have been made, then appropriate management recommendations can be made in relation to other sites and areas of sensitivity within the Menangle Park Release Area.

3.6 Further archaeological work

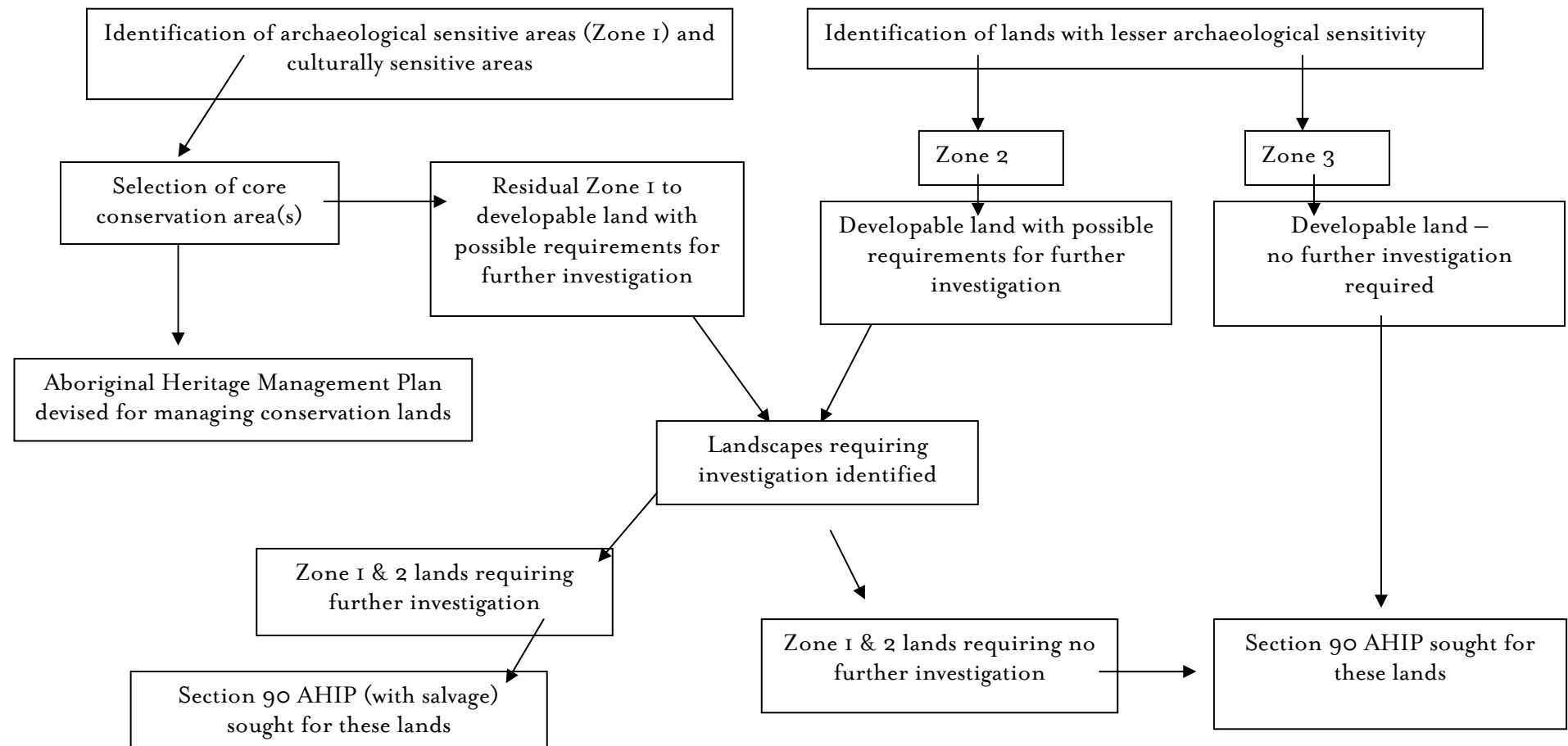
The identification of landscapes requiring further archaeological sub-surface investigation will depend on the conservation outcome. Once the Menangle Park conservation outcome is finalised, then a representative sample of the residual Zone I lands (i.e. those which do not fall within open space conservation zonings) would become targets of a more detailed archaeological investigation.

While one of the goals of cultural heritage management is the preservation of a representative sample of the archaeological record into the future, a concomitant goal is the better understanding of the resource that we are trying to conserve. As part of the strategic management strategy, it is envisaged that this understanding would emanate from the salvage of sites in the developable lands prior to development proceeding. Salvage would involve open area excavation of high value areas which will be affected by the development's impact.

A meaningful management outcome will be achieved by a combination of conservation and salvage, with the remainder of the land being considered unconstrained (from an archaeological perspective) for future development.

Assessment of the development footprint and its impact on landscapes with high archaeological and cultural sensitivity indicates that a meaningful cultural heritage conservation outcome should be achieved by the Draft Structure Plan.

This requires confirmation – and continuing discussion between proponent, regulators and Aboriginal community – before a decision can be made regarding the scope for further archaeological work. It also requires the proponent to make their commitment to Indigenous heritage conservation of Zone I and culturally sensitive lands within the Riparian and Open Space zones a reality by appropriate zoning across the Menangle Park Release Area.

Figure II: Applying the strategic management model.

4. RECOMMENDATIONS

The following recommendations are made on the basis of:

- ④ legal requirements of the National Parks and Wildlife Act NSW 1974 (as amended) whereby it is illegal to damage, deface or destroy an Aboriginal object without a prior section 90 Heritage Impact Permit from the Director-General, Department of Environment, Climate Change & Water NSW;
- ④ the interests of the Tharawal Local Aboriginal Land Council, the Cubbitch Barta Aboriginal Corporation and any other interested Indigenous parties;
- ④ the findings of previous field surveys done within the current study area;
- ④ the assessed potential of the archaeological landscapes and surface archaeological features identified within the study area; and,
- ④ the current planning stage of the development process.

It is recommended that:

- 1 A conservation strategy has been devised using the results of this investigation. This strategy identifies a conservation outcome, which incorporates many landscapes with high archaeological potential as well as areas with identified cultural significance. The proponents, Aboriginal community and regulators need to continue discussions about finalising these conservation zones;
- 2 The Development Control Plan should identify these conservation zones within areas of open space and riparian corridors and ensure that they are zoned appropriately in the Local Environment Plan to ensure long term protection;
- 3 Once the Conservation Zone(s) have been finalised, an Aboriginal Heritage Management Plan will be required to ensure the ongoing management of values (Aboriginal and archaeological) in the conservation zone. This AHMP will identify the types of works which can occur within the conservation zone and identify Indigenous heritage conservation priorities. The proponent(s) would be responsible for the development of this AHMP;
- 4 Land which falls outside the Conservation Zone(s) should be considered 'developable land'. The developable lands should be managed on the basis of the sensitivity mapping and the defined management principles (Figure 5; section 3.3);
- 5 There will be a range of impacts within developable land on landscapes which have High Archaeological Sensitivity (Zone 1), cultural sensitivity and Moderate Archaeological Sensitivity (Zone 2: see Figure 9). A representative sample of these should be selected for sub-surface investigation (i.e. salvage) as mitigation against their destruction;
- 6 Areas and/or landscapes within Zone 3 have low archaeological potential. These should be considered as developable without archaeological constraint. There would be no requirement for further investigation in these areas;

- 7 A number of identified archaeological surface features occur across the Menangle Park Release Area. These would ordinarily be managed on the basis of their assessed significance and/or potential. The Precinct Planning stage is the appropriate time to determine management outcomes for landscapes and identified sites within the Menangle Park Urban Release Area. The SMM would guarantee that these would be managed on the basis of a 'whole of development' clearance across the developable lands;
- 8 Once the Conservation Zone has been finalised and locations chosen for salvage, a whole of development Section 90 Aboriginal Heritage Impact Permit should be sought from DECCW NSW. Given the likely lifetime of the development process this may need to be undertaken in a Staged approach.
- 9 One copy of final copy of this report (each) should be sent to:
Ms Donna Whillock
Tharawal Local Aboriginal Land Council
PO Box 2
BUXTON NSW 2571

Mrs Glenda Chalker
Cubbitch Barta Native Title Aboriginal Corporation
55 Nightingale Rd
PHEASANTS NEST NSW 2574
- 11 Two hard copies and one electronic copy of this report should be sent to:
Ms Lou Ewins
Manager
Department of Environment, Climate Change and Water (NSW)
Metropolitan Branch
PO Box 668
PARRAMATTA NSW 2124.

5. REFERENCES

- Barton, H. 1996 Camden Bush Corridor Management Plan: Archaeological Study. Unpublished report for EDAW on behalf of Camden Shire Council
- Bonhomme 1986 An assessment of archaeological sites at Narellan, near Campbelltown, NSW. Report prepared for the Dept of Housing through Landcom.
- Byrne, D. 1994 Archaeological Survey at Spring Farm, Elderslie, NSW. A report to Design Collaborative Pty Ltd.
- Campbelltown City Council, 1990, Menangle Park Environmental Study.
- Corkill, T. 1992 Survey for Aboriginal archaeological sites at Narellan Vale NSW. Report to John M. Daly and Associates Pty Ltd for the Department of Housing.
- Corkill, T. 1994 Survey for Aboriginal archaeological sites at Mount Gilead, NSW. Report to Nexus Environmental Planning
- Corkill, T and Edgar 1991 Archaeological investigation at sites MP1, MP2 and MP3. Menangle Park, NSW Report to the Department of Housing, Liverpool and Campbelltown City Council.
- Dibden, J. 2002a Glenlee Coal Bed Methane Project – Archaeological and Heritage Assessment. A report to Harvest Scientific Services on behalf of Sydney Gas Operations Pty Ltd.
- Dibden, J. 2002b Glenlee Coal Bed Methane Project Stage 2 – Archaeological and Heritage Assessment at Glenlee, near Camden, New South Wales. A report to Harvest Scientific Services on behalf of Sydney Gas Operations Pty Ltd
- Dibden, J. 2003a Camden Gas Project Stage 2- Camden NSW Archaeological and Heritage Assessment. A report to Sydney Gas Operations Pty Ltd Indigenous Heritage Assessment, Menangle Park Rezoning S6001701_RptFinal_May04 106
- Dibden, J. 2003b. Camden Gas Project Stage 2. Five gas production well sites and associated gathering system, Menangle Park, NSW. A report to Harvest Scientific Services on behalf of Sydney Gas Operations Pty Ltd
- HLA-Envirosciences Pty Limited 2004 Indigenous Heritage Assessment: Menangle Park Rezoning. Report prepared for APP Corporation Pty Ltd.
- Jo McDonald CHM 1996 Camden Bush Corridor Management Plan. Unpublished report for EDAW on behalf of Camden Shire Council
- Jo McDonald CHM 2000 Archaeological survey for Aboriginal sites proposed Re-zoning for Manooka Valley Rural residential subdivision Currans Hill, NSW. Prepared for Landcom.
- Jo McDonald CHM 2002 Archaeological assessment of Aboriginal sites: Eastern Creek Strategic Land Use Study SEPP 59 Lands in Blacktown Council, NSW. Report prepared for Blacktown City Council.
- Jo McDonald CHM 2003 Heritage conservation strategy for Aboriginal Sites in the SEPP 59 Lands Precinct Plan, Eastern Creek, NSW. Report prepared for APP Corporation Pty Ltd.
- Jo McDonald CHM 2004 Additional Archaeological Assessment of Indigenous Heritage Issues Menangle Park Rezoning. Report prepared for APP Corporation Pty Ltd on behalf of Campbelltown City Council and Landcom.

- Jo McDonald CHM 2008 Archaeological assessment of Indigenous heritage values in the Central Precinct of the St. Marys development site, St Marys. Report to Maryland Development Company.
- Jo McDonald CHM 2009 Test Excavation & Archaeological Assessment of Aboriginal PAD #52-2-3676: Proposed Soil & Sand Extraction at Menangle Park West, NSW Report to Harvest Scientific Services and Landcom.
- Kass, T. 2003 A History of Menangle Park. Prepared for Casey and Lowe Pty Ltd.
- Knight and Kohen, J. 2000 Archaeological survey of the proposed new extraction area - Racecourse Road, Menangle Park, NSW. Prepared for Menangle Sand and Soil Pty Ltd.
- McDonald, J. and Brayshaw, H. 1983 Archaeological survey of a proposed soil extraction site at Menangle Park. Report prepared for T. J. O'Donnell & Associates Pty Ltd.
- McDonald, J. 1990 Archaeological survey at Menangle Park. Report to Travers Morgan Pty Ltd on behalf of Department of Housing and Campbelltown City Council.
- McDonald 1992 Archaeological survey at Spring Farm Camden. Unpublished report to PPK consultants, Camden.

Appendix I

Aboriginal community consultation



THARAWAL

LOCAL ABORIGINAL LAND COUNCIL

Thursday, 20 May 2004

Norma Richardson
HLA-Envirosciences
Level 2, 55-65 Grandview Street
Pymble NSW 2073

RE: Indigenous Heritage Assessment, Menangle Park Rezoning.

Dear Norma,

Thankyou for allowing me the opportunity to comment on the draft report prepared by HLA-Envirosciences on behalf of APP Corporation regarding the rezoning of the Menangle Park Area.

During the field work stages of the background research undertaken for this report, myself, Robyn Williams and Glenda Chalker discussed a number of our concerns with yourself and Meaghan Russell of HLA. It is pleasing to see that these concerns have been accurately represented and thoroughly discussed within your report.

I have reviewed the management zones and the associated management strategies that you have proposed and believe that at this very early stage in the overall rezoning process that they are the prudent option. I think that people should start looking at Indigenous Heritage as a non-renewable resource, we can't just grow some more.

I note also that you have identified that further field work will be required prior to any firm indication of areas with no indigenous heritage constraints. I have discussed this with Robyn Williams and we are both in agreement that this is also the current position of the Tharawal Local Aboriginal Land Council.

Tharawal Local Aboriginal Land Council will not be supporting any s.90 consent to impact permits, without further consultation and field work.

Regards,

Lance Syme

P.O. BOX 20 BUXTON NSW 2571
220 WEST PARADE COURIDJAH NSW 2571
TELEPHONE (02) 4681 0559 (02) 4681 0799 FAX (02) 4683 1375
tharawal@ideal.net.au

Cubbitch Barta Native Title Claimants
Aboriginal Corporation,
55 Nightingale Road,
PHEASANTS NEST. N.S.W. 2574.
12th May, 2004.

Ms Norma Richardson,
HLA Envirosiences Pty Ltd.
P.O. Box 726,
PYMBLE. N.S.W. 2073.

Dear Norma,

RE; Menangle Park

I have read the draft report for the Proposed Menangle Park Rezoning, and would like to make the following comments;

1. At this point in time, it is difficult to make any recommendations to any particular site or place identified within the report. Each will have to be dealt with on an individual basis when the masterplans are in draft.
2. There have been several areas identified as of high cultural significance to this community
3. My main concern would be conservation, wherever possible.
4. This report is one of the most comprehensive that I have seen in all my years of doing survey work for proposed developments etc.

Yours truly,

G. Chalker.

Glenda Chalker
02 46841129

Expression of Interest

Jo McDonald Cultural Heritage Management is seeking Expressions of Interest from relevant Aboriginal groups or individuals to participate in the development of an Indigenous Conservation Management Plan for the Menangle Park Local Environmental Study. We are seeking first to identify any interested Indigenous parties as part of the formal consultation process for the project. Written submissions should include demonstration of cultural interest in the subject area, experience and capability in the assessment of cultural heritage and specific local knowledge of Aboriginal culture. Submissions should be addressed to "Jo McDonald CHM" at 77 Justin Street Lilyfield NSW and be received no later than **Tuesday 10 April 2007**.



Koori Mail
NEWSPAPER

EDITION 397

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**CLIENT: Cultural heritage
management**

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Menangle Park Aboriginal Community Consultation

Date	Description	Initiated by	Outcome	Participants
23/03/2007	Job ad lodged in Koori Mail, closing date for responses 10th April	Fran	Ad published	
23/03/2007	Job ad lodged in Campbelltown advertiser, closing date for responses 10th April	Fran	Ad published	
26/03/2007	Faxes sent re: ad to identified stakeholders, except DTAC whose fax isn't operational currently	Fran/Andrea	Groups notified	
26/03/2007	Email sent to DTAC re: ad	Fran	DTAC notified	
26/03/2007	Phone call from Celestine re: fax as a verbal response to ad notification	Celestine	DACHA registered interest in project	Fran & Celestine
26/03/2007	Fax from Leanne from DCAC as response to ad notification	Leanne	DCAC registered interest in project	Fran & Leanne
26/03/2007	Email from Gordon DTAC as response to ad notification	Gordon	DTAC registered interest in project	Fran & Gordon
2/04/2007	Received fax from Glenda from CBNTC responding to ad notification	Glenda	CBNTC registered interest in project	Glenda
9/04/2007	Received letter from Leanne from DCAC response to ad notification, hard copy backing up fax	Leanne	DCAC confirming interest in project	Leanne
	Closing date for responses to ad was 10/04/07			
20/11/2007	Celestine Everingham of DACHA registered her interest for the project via phone call 3pm	Celestine	DACHA registered interest in project	Celestine/Andrea

December 6, 2007

Memorandum

To: Darug Custodians Aboriginal Corporation, Darug Tribal
Aboriginal Corporation, Darug Aboriginal Cultural Heritage
Assessments

CC:

From: Jo McDonald

Date: 6th December 2007

Re: Menangle Park Rezoning



Please find enclosed a CD which has a copy of the original report (done by HLA Enviro-sciences) and the more recent report (done by JMcD CHM) - the previous survey and sensitivity mapping that's been done in this area.

As you will know from previous conversations with Fran Scully, Landcom and APP are progressing this Rezoning proposal. In the New Year, they will have a layout upon which they would like you to comment. These reports are being provided so that you have the necessary background information.

I will contact you again (probably in early February) to discuss this further.

If I don't see any of you again between now and then - Merry Christmas and Happy New Year to you all!!

Cheers

Jo

Cubbitch Barta Native Title Claimants
Aboriginal Corporation,
55 Nightingale Road,
PHEASANTS NEST. N.S.W. 2574.
16th September, 2009.

Jo McDonald Cultural Heritage
Management Pty Ltd.
77 Justin Street,
LILYFIELD. N.S.W. 2040.

Dear Sandra,

RE; MENANGLE PARK
SAND & SOIL EXTRACTION

Thank you for the opportunity of commenting on the Draft report for the above project.

However, it is always disappointing, when conservation gets mentioned as a possibility in the field, and then again, in phone conversations, and when the draft report is changed, there is no possibility, due to other reasons. The one, such as Recommendation 2, that states that there is no conservation as the area does not warrant conservation on archaeological grounds. What about cultural grounds? It seems that this is not being considered. We were asked our thoughts, and they have been ignored. A representative sample of salvage is not our answer. Leaving a part of the creek line intact, is what we wanted. Destroying the lot, for a sample is not good enough!

There will be none of this particular landscape left, due to all the mining, now and in the past that is taking place. This is the first time there has been an opportunity to test and possibly save some of this particular type of landscape along the Nepean River. Because it has all disappeared through the sand and soil extraction process.

As to the river itself, it should have at least a 40 metre buffer exclusion zone from any soil removal. Only one pit was tested in this area, which contained artefacts, there was to be another pit tested, but due to. **"TIME CONSTRAINTS"**, it was excavated, but not sieved. Now its okay to keep a completely unknown area, but not the area that obviously contains a significant amount of artefacts. I am sure that there are other restraints, to mining, close to the river bank, besides the possibility of archaeological material. This area is a conservation area for other reasons than culturally significant.

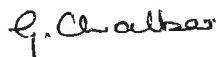
I do not agree with the recommendations, as such, and that high and moderate areas should be salvaged, with no time constraints. I am only saying this as I believe that permits are given, even when we do not agree with them. It is something that we then have to live with, with a clear conscience, that we have tried to save a small part of what is culturally significant to our people. It is the powers that be that make the decisions on the fate of our culture, not Aboriginal people, who it belongs to.

Page 2.

The Nepean River is environmentally and culturally significant to the Cubbitch Barta people, it is where my grandmothers and grandfathers, depended on it for permanent water and abundant food supplies, right up to my grandfather, who still fished there up until the 1970,s

There will be nothing left to tell our stories of our ancestors way of life on the Nepean Rive, in this part of the world, you will be taking the small part that is left today. Aboriginal history belongs to all Australians, and should be respected, as the oldest living culture in the world

Yours faithfully,

A handwritten signature in cursive script, appearing to read 'G. Chalker'.

Glenda Chalker

Hon. Chairperson

Phone/Fax 02 46841129 0427218425



THARAWAL LOCAL ABORIGINAL LAND COUNCIL

Gibbergunyah (Formerly Stonequarry Lodge)
50 Matthews Lane, Picton NSW 2571

Sandra Wallace

77 Justin Street
Lilyfield NSW 2040
24th September 2009

Re: Menangle Park West

Dear Sandra,

I have read the report and I take note that you have amended the second report in favour of the verbal recommendations made by myself (Tharawal Local Aboriginal Land Council) and Glenda Chalker (CBNTCAC).

I agree that the areas of low potential or that are heavily disturbed should be considered developable.

However the areas that are identified as moderate potential, I would recommend prior to any work being considered there should be further testing done.

The areas that are considered to be high potential should be either left as conservation areas or prior to any work being done, more extensive testing be carried out.

I would also recommend a 50 m buffer zone from the river.

The Northern access option 1 would be my preferred track as not to damage site Glennlee Site 10.

These recommendations need to have cultural significance incorporated within.

Thankyou for your invitation on this survey.

Donna Whillock

Cultural and Heritage Representative
On Behalf of Tharawal Local Aboriginal Land Council

**PO Box 168
Picton NSW 2571
Phone: 02 4681 0059 Fax: 02 4683 1375
tharawa@bigpond.net.au**

Appendix 2

Registered Aboriginal sites in the Menangle Park Release Area



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
45-2-0382	Parr SRA;	AMG	56	299910	6219150	ART,	Shelter with Art	Stone,E (27-NOV-93)	1333,
Primary Contact									
52-2-0020	Sugarloaf Tunnel, Mount Gilead 2	AMG	56	294550	6220896	ART,	Shelter with Art		1976,
Status Valid									
Primary Contact									
52-2-0021	Douglas Park;	AMG	56	294340	6217500	AFT,	Open Camp Site		98155,
Status Valid									
Primary Contact									
52-2-0022	Sugarloaf Tunnel	AMG	56	294731	6220991	ART,	Shelter with Art		1976,
Status Valid									
Primary Contact									
52-2-0023	Sugarloaf Tunnel, Mount Gilead 1	AMG	56	295190	6220909	AFT, ART,	Shelter with Art Shelter with Deposit	ASRSYS, (01-JAN-00)	1976,
Status Valid									
Primary Contact									
52-2-0024	Sugarloaf Tunnel, Mount Gilead 4	AMG	56	295197	6220543	ART,	Shelter with Art	ASRSYS, (01-JAN-00)	1976,
Status Valid									
Primary Contact									
52-2-0027	Sugarloaf Tunnel, Spring Creek Shelter	AMG	56	298614	6223537	ART,	Shelter with Art		1976,
Status Valid									
Primary Contact									

Number of Sites :87

Page 1 of 15

15/09/2003 09:29:07



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid/Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-0032	Campbelltown;	AMG	56	300269	6227777	ART,	Shelter with Art		1976,
	Status Valid								
	Primary Contact								
52-2-0036	Campbelltown;Handstencil Shelter;	AMG	56	301891	6228998	ART,	Shelter with Art		1976,
	Status Valid								
	Primary Contact								
52-2-0037	Bull Cave 2;Campbelltown;Peter Meadows Creek;	AMG	56	301904	6228358	AFT, ART,	Shelter with Art Shelter with Deposit		1976,
	Status Valid								
	Primary Contact								
52-2-0038	Campbelltown;	AMG	56	301904	6228358	ART,	Shelter with Art		1976,
	Status Valid								
	Primary Contact								
52-2-0270	Stokes Creek;	AMG	56	298400	6218000	ART,	Shelter with Art		1807,
	Status Valid								
	Primary Contact								
52-2-0478	George's River;Stokes Creek 85;	AMG	56	298900	6217200	ART, AFT,	Shelter with Art Shelter with Deposit		1807, 1819,
	Status Valid								
	Primary Contact								
52-2-0419	Wedderburn;Stokes Creek 86;	AMG	56	298910	6217180	ART,	Shelter with Art	Longhurst,K (06-APR-90)	1807, 1819,
	Status Valid								
	Primary Contact								



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-0422	Wedderburn:	AMG	56	299825	6217040	ART,	Shelter with Art		
		Status Valid							
		Primary Contact							
52-2-0855	Wedderburn:A:	AMG	56	300000	6220600	ART,	Shelter with Art		
		Status Valid							
		Primary Contact							
52-2-0910	Curran's Hill:	AMG	56	293293	6229012	AFT,	Open Camp Site		393, 1194,
		Status Valid							
		Primary Contact							
52-2-0911	Glenlee 1:Mount Annan:	AMG	56	293505	6227553	AFT,	Open Camp Site		393, 1193, 1677,
		Status Valid							
		Primary Contact							
52-2-0912	Glenlee 2:Mount Annan:Cluthas:	AMG	56	293490	6228285	AFT,	Open Camp Site	Barton,H (01-JAN-82)	393, 401, 1193, 1677, 3687, 98267,
		Status Valid							
		Primary Contact							
52-2-0913	Glenlee 3:Mount Annan:	AMG	56	293037	6228093	AFT,	Open Camp Site		393, 1193, 1677, 98267,
		Status Valid							
		Primary Contact							
52-2-0914	Glenlee 4:Mount Annan:	AMG	56	292953	6227725	AFT,	Open Camp Site		393, 1193, 1677, 98267, 98692,
		Status Valid							
		Primary Contact							



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-0915	Glenlee 5:Mount Annan:	AMG	56	292953	6227725	AFT,	Open Camp Site		393, 1193, 1677, 98267, 98692,
		Status Valid							
		Primary Contact							
52-2-0916	Glenlee 6:Mount Annan:	AMG	56	292409	6227440	AFT,	Open Camp Site		393, 1193, 1677, 98267, 98692,
		Status Valid							
		Primary Contact							
52-2-0917	Glenlee 7:Mount Annan:	AMG	56	292133	6227526	AFT,	Open Camp Site		393, 1193, 1677, 98267, 98692,
		Status Valid							
		Primary Contact							
52-2-0918	Glenlee 8:Mount Annan:	AMG	56	292495	6227716	AFT,	Open Camp Site		393, 1193, 1677, 98267, 98692,
		Status Valid							
		Primary Contact							
52-2-1006	Wedderburn:O'Hares Creek:	AMG	56	301200	6218700	AFT,	Shelter with Art	Sullivan,W (01-JAN-83)	
		Status Valid							
		Primary Contact							
52-2-1121	St Helens Park 1:Campanelltown:	AMG	56	297880	6223830	AFT,	Open Camp Site		856, 1011,
		Status Valid							
		Primary Contact							
52-2-1219	MT Annan Tunnel:	AMG	56	293920	6227320	AFT,	Open Camp Site	Haglund,L (01-APR-85)	32,
		Status Valid							
		Primary Contact							



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-1220	Stokes Creek 82:	AMG	56	300550	6217220	ART,	Shelter with Art	Sefton,C (01-OCT-86)	1229,
		Status	Valid						
Primary Contact									
52-2-1328	Wedderburn 1 (W1):	AMG	56	299920	6218140	TRE,	Scarred Tree		
		Status	Valid						
Primary Contact									
52-2-1329	Wedderburn 8 (W8):Yeoman's Estate:	AMG	56	300140	6218190	GDG	Axe Grinding Groove	Smith,L (02-NOV-88)	1562,
		Status	Valid						
Primary Contact									
52-2-1330	Wedderburn 4 (W4):	AMG	56	300132	6219170	GDG	Axe Grinding Groove		
		Status	Valid						
Primary Contact									
52-2-1331	Wedderburn 2:W2:	AMG	56	300090	6217340	ART,	Shelter with Art	Crew,D (01-JAN-88)	1562, 2017,
		Status	Valid						
Primary Contact									
52-2-1332	W3:Snake Pit:	AMG	56	300960	6219250	ART,	Shelter with Art	Smith,L (01-NOV-87)	1562, 2017,
		Status	Valid						
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to =

6232000 Feature Search Type = AHIMS Features

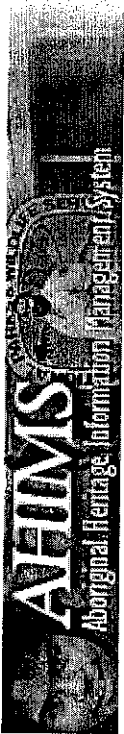
Site ID	Site Name	Grid Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
<u>52-2-1333</u>	<u>Wedderburn 6;W6;</u>	AMG	56	300350	6219370	ART,	Shelter with Art	Smith, L (02-NOV-88)	1562, 2017,
Status Valid									
Primary Contact									
<u>52-2-1334</u>	<u>Wedderburn 7;W7;</u>	AMG	56	300150	6218640	ART,	Shelter with Art	Smith, L (02-NOV-88)	1562, 2017,
Status Valid									
Primary Contact									
<u>52-2-1597</u>	<u>Menangle Park 1;</u>	AMG	56	292890	6222870	AFT,	Open Camp Site	McDonald, J (01-AUG-91)	2038, 2149,
Status Valid									
Primary Contact									
<u>52-2-1598</u>	<u>Menangle Park 2;</u>	AMG	56	293470	6225080	AFT,	Open Camp Site	McDonald, J (01-AUG-91)	2038, 2149,
Status Valid									
Primary Contact									
<u>52-2-1607</u>	<u>Menangle Park 3;</u>	AMG	56	292490	6222870	AFT,	Open Camp Site		2149,
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-1716	Narellan Site 2b: NS-2b:	AMG	56	293090	6228380	AFT,	Open Camp Site	Haglund, L (05-JUN-93)	98267,
Status Valid									
Primary Contact									
52-2-1717	Narellan Site 2a: NS-2a:	AMG	56	293020	6228300	AFT,	Open Camp Site	Haglund, L (05-JUN-93)	98267,
Status Valid									
Primary Contact									
52-2-1718	Camden Park Canoe Tree 1: CPCT-1:	AMG	56	289700	6226550	TRE,	Scarred Tree		
Status Valid									
Primary Contact									
52-2-1725	IF 2:	AMG	56	294780	6228640	AFT,	Isolated Find		
Status Valid									
Primary Contact									
52-2-1813	HP 2:	AMG	56	291360	6231820	AFT,	Open Camp Site	Gay, L (04-DEC-93)	2856,
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-1814 HP 3;		AMG	56	291380	6231580	AFT,	Open Camp Site	Gay,L (26-MAR-94)	2856,
Status Valid									
Primary Contact									
52-2-1815 HP 2;		AMG	56	291360	6231820	AFT,	Open Camp Site	Gay,L (26-MAR-94)	2856,
Status Valid									
Primary Contact									
52-2-1816 HP 3;		AMG	56	291380	6231580	AFT,	Open Camp Site	Gay,L (26-MAR-94)	2856,
Status Valid									
Primary Contact									
52-2-1818 IF 7;		AMG	56	291590	6231450	AFT,	Isolated Find	Gay,L (04-DEC-93)	2856,
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-1819	Isolated Find 1:	AMG	56	290350	6231850	AFT,	Isolated Find	Gay,L (04-DEC-93)	2856,
Status Valid									
Primary Contact									
52-2-1887	Clutha 1:	AMG	56	292300	6227300	AFT,	Open Camp Site	Barton,H (26-JUN-96)	3687, 98267,
Status Valid									
Primary Contact									
52-2-1888	Clutha 2:	AMG	56	292000	6227500	AFT,	Open Camp Site	Barton,H (26-JUN-96)	3687, 98267,
Status Valid									
Primary Contact									
52-2-2115	TLC3	AMG	56	295694	6230793	AFT,	Isolated Find		
Status Valid									
Primary Contact									
52-2-2116	TLC4	AMG	56	294802	6227005	AFT,	Open Camp Site		
Status Valid									
Primary Contact									
52-2-2122	MV5 - "Manooka Valley 5"	AMG	56	294470	6231530	AFT,		Benton,J (01-JUN-98)	
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-2150	AIRDS-01	AMG	56	299400	6226600	TRE,		Barton,H (05-JUN-01)	
Status Valid									
Primary Contact NSW Aboriginal Land Council									
52-2-2151	AIRDS-02	AMG	56	299500	6226250	AFT,		Barton,H (05-JUN-01)	
Status Valid									
Primary Contact									
52-2-2220	BRINGELLY SHALE (RWB)	AMG	56	294660	6231110	AFT,		Garling,J (09-JUN-00)	
Status Valid									
Primary Contact									
52-2-2221	MV1 - "MANOOKA VALLEY 1"	AMG	56	294510	6231100	AFT,		Garling,S (09-JUN-00)	
Status Valid									
Primary Contact									
52-2-2222	MV3 - MANOOKA VALLEY 3	AMG	56	294880	6230420	AFT,		Garling,S (09-JUN-00)	
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting To = 302000 Northing From = 6217000 Northing To = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-2223	MV4 -MANOOKA VALLEY 4	AMG	56	294680	6230480	AFT,		Garling,S (13-JUN-00)	
Status Valid									
Primary Contact									
52-2-2235	GEORGES RIVER NO.6	AMG	56	297230	6218134	AFT,		Sefton,C (30-AUG-01)	
Status Valid									
Primary Contact									
52-2-2237	OUSEDALE CREEK NO.3	AMG	56	294285	6217298	ART, AFT,		Sefton,C (03-SEP-01)	
Status Valid									
Primary Contact									
52-2-2238	OUSEDALE CREEK NO.4	AMG	56	293421	6217096	AFT, ART,		Sefton,C (06-SEP-01)	
Status Valid									
Primary Contact									
52-2-2239	NEPEAN RIVER NO.8	AMG	56	293106	6219660	AFT,		Sefton,C (06-SEP-01)	
Status Valid									
Primary Contact									
52-2-2240	GEORGES RIVER NO.7	AMG	56	297045	6218124	AFT,		Sefton,C (30-AUG-01)	
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-2242	GEORGES RIVER NO.4	AMG	56	296594	6217358	ART,		Sefton, C (23-AUG-01)	
Status Valid									
Primary Contact									
52-2-2244	GEORGES RIVER NO.3	AMG	56	296800	6217061	AFT,		Sefton, C (23-AUG-01)	
Status Valid									
Primary Contact									
52-2-2250	Stokes Creek No95	AMG	56	298906	6217285	AFT, ART,		Sefton, C (10-SEP-01)	
Status Valid									
Primary Contact									
52-2-2251	SF-ST-1	AMG	56	290104	6227704	AFT,		Baker, N (17-FEB-99)	
Status Valid									
Primary Contact									
52-2-2263	Tree No. 3 (also 958517)	AMG	56	287590	6224570	TRE,		Hardy, L (01-MAY-99)	
Status Valid									
Primary Contact									
52-2-2265	Leafs Gully 1	AMG	56	294150	6218190	AFT,		Navin Officer Heritage Consult (01-NOV-02)	
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting To = 302000 Northing From = 6217000 Northing To = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid.Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
<u>52-2-2269</u>	<u>GL14</u>	AMG	56	293448	6225840	AFT,		Dibden ,J (01-SEP-02)	
Status Valid									
Primary Contact									
<u>52-2-2270</u>	<u>GL4</u>	AMG	56	292711	6227060	AFT,		Dibden ,J (17-OCT-02)	
Status Valid									
Primary Contact									
<u>52-2-2271</u>	<u>GL 16-14</u>	AMG	56	293803	6226072	AFT,		Dibden ,J (17-OCT-02)	
Status Valid									
Primary Contact									
<u>52-2-2272</u>	<u>GL2</u>	AMG	56	292547	6227620	AFT,		Dibden ,J (17-OCT-02)	
Status Valid									
Primary Contact									
<u>52-2-2273</u>	<u>RP2</u>	AMG	56	294260	6221910	AFT,		Dibden ,J (01-DEC-02)	
Status Valid									
Primary Contact									
<u>52-2-2274</u>	<u>GL15</u>	AMG	56	293932	6225688	AFT,		Dibden ,J (01-SEP-02)	
Status Valid									
Primary Contact									



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting to = 302000 Northing From = 6217000 Northing to =

6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
<u>52-2-2275</u>	<u>GL12</u>	AMG	56	293050	6226340	AFT,		Dibden, J (01-SEP-02)	
		Status	Valid						
		Primary Contact							
<u>52-2-2276</u>	<u>GL11</u>	AMG	56	293190	6226000	AFT,		Dibden, J (01-SEP-02)	
		Status	Valid						
		Primary Contact							
<u>52-2-2277</u>	<u>GL18</u>	AMG	56	294961	6226573	AFT,		Dibden, J (01-SEP-02)	
		Status	Valid						
		Primary Contact							
<u>52-2-2278</u>	<u>RP1</u>	AMG	56	294760	6222300	AFT,		Dibden, J (01-DEC-02)	
		Status	Valid						
		Primary Contact							
<u>52-2-2279</u>	<u>Glenlee 1</u>	AMG	56	292842	6227700	AFT,		Dibden, J (01-SEP-02)	
		Status	Valid						
		Primary Contact							
<u>52-2-2280</u>	<u>GL10</u>	AMG	56	292331	6225733	AFT,		Dibden, J (16-OCT-02)	
		Status	Valid						
		Primary Contact							



List of Sites (List - Short)

Grid Reference Type = AMG Zone = 56 Easting From = 287000 Easting To = 302000 Northing From = 6217000 Northing To = 6232000 Feature Search Type = AHIMS Features

Site ID	Site Name	Grid/Ref Type	Zone	Easting	Northing	Site Features	Site Types (recorded prior to June 2001)	Recording (Primary)	Reports (Catalogue Number)
52-2-2281	GL16	AMG	56	293956	6225876	AFT, TRE,		Dibden, J (17-OCT-02)	
Status Valid									
Primary Contact									
52-3-0524	Wedderburn 5 (w5);	AMG	56	301330	6219720	ART,	Shelter with Art		
Status Valid									
Primary Contact									
52-3-0763	Narellan Site 2a;	AMG	56	293090	6228380	AFT,	Open Camp Site	Haglund, L (05-JUN-93)	
Status Valid									
Primary Contact									
52-3-0764	Narellan Site 2b;	AMG	56	293020	6228300	AFT,	Open Camp Site	Haglund, L (05-JUN-93)	
Status Valid									
Primary Contact									

meeting minutes

PREPARED BY	Owen Burnie (APP Corporation)
MEETING SUBJECT	Aboriginal Community Consultation
LOCATION	Level 1, Campbelltown City Council Offices, 91 Queen St, Campbelltown
DATE OF MEETING	11:00am, Monday 22 nd March, 2010
ATTENDEES	Glenda Chalker (Cubbitch Barta Native Title Aboriginal Corporation) Donna Whillock (Tharawal Local Aboriginal Land Council) Phil Jemison (part meeting) / Felicity Saunders (Campbelltown City Council) Michael Pring / James Belford (Landcom) Jo McDonald (Jo McDonald Cultural Heritage Management) Owen Burnie (APP)
DISTRIBUTION	All above Adriana Malin (Landcom) Peter Lee (APP)

ITEM	BUSINESS	ACTION	DATE
1.0	INTRODUCTION		
1.1	GC introduced the meeting with the welcome to country and acknowledgement of the traditional ownership.	Note	
1.2	APP outlined that the purpose of the meeting was to discuss and agree on the conservation zones in the Menangle Park release area and the conservation outcomes in these zones.	Note	
1.3	JMcD noted that there had been substantial previous work and mapping undertaken and that no additional fieldwork had been done since 2004m, but that mapping had been updated in light of the revised structure plan. The structure plan presents several opportunities for conserving areas of high Aboriginal significance within the main riparian corridors.	Note	
2.0	CULTURAL HERITAGE CONSERVATION		
2.1	GC noted that there was an additional site identified in the Howes Creek corridor east of the railway line that was not identified in the current assessment. JMcD to update plans and report.	JMc	29/03/10
2.2	GC noted that the preference for the conservation zones is to not disturb the land.	Note	
2.3	MP noted that some environmental works would be required in the conservation zones to	Note	

ITEM	BUSINESS	ACTION	DATE
	achieve the environmental outcomes required by DECCW and Campbelltown City Council. This may include works such as riparian rehabilitation, bank stabilisation, revegetation, weeding, detention basins and water quality features.		
2.4	GC and DW noted that the core conservation zones should not include engineering works and that rehabilitation and revegetation should be undertaken in a sensitive manner to avoid disturbing the ground (i.e. in some areas tractors with slashers would be appropriate – but not tractors with rippers).	Note	
2.5	MP noted that at least one road crossing of the riparian zone was required and that where possible this will be constructed to minimise disturbance to the riparian zone.	Note	
2.6	OB noted that the best opportunities for conserving land are in the riparian zone as the development footprint is significantly constrained by the flood levels.	Note	
2.7	GC noted that TransGrid had conserved a portion of the land adjoining Landcom land in the northern part of the study area. Landcom to review this area and opportunities to conserve this part of the site.	Landcom	29/03/10
2.8	GC and DW discussed other potential deposits. JMcD to identify on the maps the significance of the wetland / spring area in Howes Creek, the knoll in the south west on Council land and the location of MPRP10, MPRP2 and MPRP11	JMcD	29/03/10
2.9	MP noted that Landcom are willing to conserve the area identified as having high archaeological significance to the west of the railway on the proviso that there is an understanding that the creek line requires rehabilitation, and that the area can also be used for vegetation offset planting. JMcD to include in assessment.	JMcD	29/03/10
2.10	JB to confirm if the Aboriginal Community can be consulted during the sand mining process to review the sieving works for artefacts.	JB	29/03/10
2.11	GC confirmed that she accepts the conservation zones being located in the riparian areas and Landcom land west of the railway and understood the need for works to be undertaken in these areas to stabilise the landscape.	Note	
2.12	JMcD to indicate in the report that there is an opportunity for an interpretation site on the archaeologically sensitive land next to the proposed school site.	JMcD	29/03/10
2.13	APP to forward to JMcD an outline of the infrastructure proposed in or adjoining the conservation areas / riparian corridors.	APP	29/03/10
2.14	JB to issue a profile of the sand mining landform and buffer zones to the creek line to GC and DW for their review.	JB	31/03/10

ITEM	BUSINESS	ACTION	DATE
2.16	APP to issue to JMCD a jpeg copy of the structure plan on an aerial and copies of the WSUD, flood and vegetation offset reports.	APP	29/03/10
2.17	APP noted that the next steps are for JMCD to finalise and issue her report to the Aboriginal Groups and DECCW as part of the Section 62 consultation.	JMCD	2/04/10