

10 September 2020

Barry Teeling (Development Manager)

Built

Level 7, 343 George Street
Sydney NSW 2000

**Liverpool Civic Place, Section 4.55 Amendment to Existing Early Works
DA (DA-906/2019) – Aboriginal heritage due diligence assessment**

Dear Mr Teeling,

Extent Heritage Pty Ltd (Extent) has been commissioned by Built and Liverpool City Council undertake an Aboriginal heritage due diligence assessment to accompany a development application (DA) for the redevelopment of Liverpool Civic Place at 52 Scott Street, Liverpool (hereafter the 'study area'). This letter report provides the results of a desktop assessment and site inspection undertaken for the study area. The developments proposed for the site include several multi-storey structures (including a commercial tower and library), landscaping and public domain works, and a multi-level common basement.

We understand that Built is seeking an amendment to the existing Early Works DA under Section 4.55 of the Environmental Planning and Assessment Act 1979 (NSW) to enable deeper excavation to accommodate a future basement structure that will be subject to a future consent condition. These works will result in no additional impacts to the Aboriginal archaeological potential of the study area beyond those already assessed. Our understanding of the soils in the region indicates that only the upper ~30cm of natural soils would have any potential for the presence of Aboriginal objects. Because of this, the deepening of the basement is an immaterial alteration to the design when considered with regard to Aboriginal archaeological potential. There was no possibility of the presence of Aboriginal objects at the depth of the original basement level, and a deeper basement does not change this conclusion.

In summary, a review of the environmental context and previous archaeological assessments suggest that the study area retains low potential to contain Aboriginal archaeological material. The study area is situated on shallow duplex soils that limit the depth of cultural deposits. A review of historical documentation concluded that the soil profile has been extensively disturbed and/or removed by historical land use activities, which is likely to have resulted in the partial and/or total loss of the soil profile that is critical for the survivability of cultural deposits (if present). A site inspection undertaken as part of this assessment confirmed this disturbance and did not identify any Aboriginal sites, objects or places. It is therefore considered that the proposed works within the study area will have a low risk of causing harm to Aboriginal objects; work may proceed with caution, and in accordance with the recommendations below.

Built & Urban Heritage | Aboriginal Heritage | Archaeology | Interpretation | Intangible Cultural Heritage | World Heritage

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Taking the above conclusions into consideration, the following recommendations are made with regard to Aboriginal cultural heritage:

- Development work in the study area may proceed with caution. It is considered that there is a low risk of Aboriginal objects being present within the study area. However, the nature of disturbance does not preclude the potential for isolated finds, which is a common site type across the region, even in disturbed contexts. In the event that unexpected Aboriginal objects, sites or places (or potential Aboriginal objects, site or places) are discovered during construction, all works in the vicinity should cease and the proponent should determine the subsequent course of action in consultation with a heritage professional and/or NSW Department of Premier and Cabinet Heritage NSW (Heritage NSW) as appropriate. A process of consultation with Aboriginal community representatives would also be required.
- This document may be summarised within and/or appended to a Development Application, Statement of Environmental Effects (SEE) or Review of Environmental Factors (REF). If any Aboriginal objects are later identified within the proposed activity area, this report cannot, however, be used to support an application for an Aboriginal Heritage Impact Permit (AHIP). Such an application would require more detailed investigation involving a formal process of Aboriginal community consultation and the preparation of an Aboriginal Cultural Heritage Assessment Report (ACHAR).
- If human skeletal material less than 100 years old is discovered, the *Coroners Act 2009* requires that all works should cease and the NSW Police and the NSW Coroner's Office should be contacted. Traditional Aboriginal burials (older than 100 years) are protected under the *National Parks and Wildlife Act 1974* and should not be disturbed. Interpreting the age and nature of skeletal remains is a specialist field and an appropriately skilled archaeologist or physical anthropologist should therefore be contacted to inspect the find and recommend an appropriate course of action. Should the skeletal material prove to be archaeological Aboriginal remains, notification of Heritage NSW and the Local Aboriginal Land Council will be required. Notification should also be made to the Commonwealth Minister for the Environment, under the provisions of the *Aboriginal and Torres Strait Islander Heritage Protection Act 1984*.

Please note that this letter report addresses only the proposed development of the study area. It is an initial investigation of constraints and opportunities pertaining to identified existing and potential Aboriginal heritage sites and places on and/or in the immediate vicinity of the study area. It is not an ACHA and is not sufficient to support an application for an AHIP, in accordance with section 90 of the *National Parks and Wildlife Act 1974*.

Should you have any questions or concerns please do not hesitate to contact Laressa Barry or me on (02) 9555 4000.

Yours sincerely,



Tom Sapienza
Senior Heritage Advisor, Aboriginal Specialist | Extent Heritage

Background and purpose of document

In NSW, Aboriginal objects, whether recorded or as yet undiscovered, are afforded statutory protection under the *National Parks and Wildlife Act 1974*. Under Section 86 of the Act it is an offence to disturb, destroy or deface Aboriginal objects without the approval of the Chief Executive of Heritage NSW. A breach of Section 86 of the *National Parks and Wildlife Act 1974* could result in prosecution and fines in excess of \$1 million. Heritage NSW provides a series of guidelines as a framework for identifying and managing Aboriginal heritage and the cultural heritage interests of Aboriginal parties within development planning contexts. The Due Diligence process is the first step, outlined in the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW, 2010); and is intended to identify whether or not a proposed activity is likely to harm Aboriginal objects.

Extent Heritage Pty Ltd (Extent) has been commissioned by Built and Liverpool City Council undertake an Aboriginal heritage due diligence assessment as a part of a larger for the proposed redevelopment of Liverpool Civic Place at 52 Scott Street, Liverpool (Lot 1 DP514817; Lot 17 DP81842; Lot 3 DP229979; Lot 11 DP522284; Lot 22 & 23 441010; Lot 100 DP877435; Lot 1 DP507070; Lot 12 DP657056; and, Lot 1 & 2 DP229979) (**Figure 1**). The developments proposed for the site include several multi-storey structures (including a commercial tower and library), landscaping and public domain works, and a multi-level common basement (**Figure 2**). This letter report provides the details and results of a desktop assessment and site inspection undertaken for the study area.

Please note that this report is an initial investigation of constraints and opportunities pertaining to identified Aboriginal heritage sites and places on and/or in the immediate vicinity of the proposed development site. It is not an Aboriginal Cultural Heritage Assessment (ACHAR) prepared in accordance with the guidelines issued by Heritage NSW. As such, it would not be sufficient to support an application for an Aboriginal Heritage Impact Permit, in accordance with s90 of the *National Parks and Wildlife Act 1974*. Similarly, the report does not consider historical heritage, and would not be sufficient to support an application for a permit under s60 or s140 of the *Heritage Act 1977*.

Existing environment

The study area is located at 52 Scott Street, Liverpool NSW 2170 (**Figure 1**). In terms of geomorphology, the study area is located in the Cumberland subregion of the Sydney Basin Bioregion. Bioregions are relatively large land areas characterised by broad, landscape-scale natural features and environmental processes that capture large-scale geophysical patterns at an ecosystem scale. Subregions delineate significant geomorphic patterns within a bioregion, and are based on finer differences in geology, vegetation and biophysical attributes (Bannerman and Hazelton 1990). The Cumberland subregion is geologically characterised by Triassic Wianamatta group shales and sandstones, with quaternary alluvium along the main streams, such as Georges River (NPWS 2003).

The study area is situated primarily with the residual Blacktown soil landscape of the Cumberland Plain (OEH 2016). A narrow strip (less than 5m wide) of the southern portion of the study area is situated with the erosional Luddenham soil landscape. Both soil landscapes are characterised by gently undulating rises on Wianamatta Group shales and Bringelly shale.

The local relief of the Blacktown soil landscape is typically up to 30m with broad rounded crests and ridges with gently inclined slopes (5%). The local relief of the Luddenham soil landscape is higher (50-80m) and the topography is more varied, from low rolling to steep low hills (10-15%). These types of landscapes restrict a number of archaeological site types, such as rockshelter and rock engravings, which require sharp exposed sandstone relief not common in these areas. Conversely, surface artefact scatters and buried cultural material are likely to be more prevalent.

Blacktown soils are typically shallow on crests and upper slopes, comprised of thin clay loam topsoil (A horizon) usually <30cm deep, over heavy clays (B horizon). In contrast, Luddenham soils are characterised by variable depth, however on crests they comprise shallow (10cm) loam topsoils (A horizon), over heavy clays (B horizon). The heavy clay unit that underlies both units is generally considered to pre-date Aboriginal occupation of Australia, and therefore only the upper A horizon is considered to retain potential to contain Aboriginal objects.

Landforms of Archaeological Interest

Particular landforms are known to have been favoured locations for repeated or long-term occupation, and are therefore more likely to retain archaeological evidence of past Aboriginal use. Heritage NSW specifies five landscape features which are likely to indicate the presence of Aboriginal objects (OEH 2010):

- Within 200m of waters.
- Within a sand dune system.
- On a ridge top, ridge line or headland.
- Within 200m below or above a cliff face.
- Within 20m of or in a cave, rock shelter, or a cave mouth.

The study area is situated on a hilltop at approximately 20m Australian Height Datum (AHD), approximately 400m west of the Georges River. Although the study area is not located on a ridgeline, its elevated location implies that it may have afforded some localised views of the broader Georges River region. Additionally, the pre-European environmental information presented suggests that with access to nearby freshwater rivers, and a variety of plant, animal and marine resources, this area would have been suitable for occupation by Aboriginal people in the past.

Past Disturbance

The study area has been subject to significant disturbance since European settlement. Liverpool was established in 1810 as an agricultural centre, before being integrated into the outer suburbs

of metropolitan Sydney in the second half of the 20th century. Originally, the region would have been dominated by open and/or dry sclerophyll forest, but most of the area is now cleared and urbanised; only riparian corridors contain dense bushland that may reflect pre-European vegetation. As the study area is located outside these riparian corridors, this limits the potential for culturally modified trees (if present) to have survived the last two hundred years of landscape modification.

At the time of European settlement, the land surrounding the study area was granted to First Fleet Royal Marine Private Thomas Chipp as part of a 100-acre grant from Governor Macquarie in 1804 of the hilltop of Scott and Speed Streets, Liverpool. There is no record of this land grant, however there is evidence of his 100-acre grant in the District of Bankstown in 1810, which is presumably the Liverpool location. Early 1800's parish maps show that 'Chipp's Farm' had one road extending NE-SW through the lot, in the vicinity of what is now Macquarie Street. Although no details remain as to the nature of this estate, it was most likely used for agriculture as was most of the area surrounding the Town of Liverpool. By 1893, the surrounding streets were established, aligning with the modern streetscape. By 1930, aerial photography shows that the study area had transitioned to residential use, and presumably would have been heavily impacted by the large-scale urban development of the Liverpool area (**Figure 4**). Additionally, the study area saw major redevelopment between 1961 to 1970, when it transitioned from residential houses to a retail or mixed-use building(s) (**Figure 5** and **Figure 6**). Further discussion on the history of the study area can be found in Section 2 of the Historical Archaeological Assessment prepared by Extent Heritage, to compliment to this report (Extent 2019).

The impact of these past disturbances on archaeological remains in the area is varied. Modifications to topography and localised impacts from agricultural and landscaping activities may have had undocumented impacts on Aboriginal cultural heritage. Activities associated with farming, agriculture have likely resulted in the disturbance or complete removal of any surface and subsurface cultural material that may have been present, and negatively impacted the likelihood of surviving *in situ* objects. In the Blacktown and Luddenham soils that characterises the study area, cultural deposits pertaining to Aboriginal occupation typically occur within the upper 10-30cm of the soil profile on crests and upper slopes. Due to the historical land use of the area for agricultural purposes, coupled with the large-scale development activities associated with construction, the likelihood of *in situ* Aboriginal archaeological deposits within the study area is considered low.

In summary, major developments within and around the study area have likely had substantial impacts on the potential for surviving Aboriginal cultural material in the area. The study area has seen multiple phases of large-scale surface and subsurface development since European settlement, and is situated in a highly urbanised environment that severely restricts the survivability of archaeological material.

Archaeological context

Archaeologically, the study area is situated in a region (part of the Cumberland Plain) that has been extensively investigated, with research dating back to the 1940s (e.g. McCarthy 1948). Much of our current knowledge of the region comes from extensive survey and excavations

undertaken through compliance-based archaeology associated with development, which began in the 1980s (e.g. Haglund 1980; Kohen 1986; Smith 1989) and continues to the present day. While local variation in the archaeological record is apparent, for the most part the distribution and type of archaeological material across the region is well understood. In a recent compilation of several decades of previous research by White and McDonald (2010), it was concluded that the archaeological record in this area was almost entirely composed of varying concentrations of Aboriginal objects (isolated finds, background scatters and artefact scatters) all situated within 200m of water sources; and with more extensive/significant deposits all occurring within 100m of major creeklines. Aboriginal objects are often dominated by silcrete raw materials, which are found as outcrops locally, and as isolated boulders within surrounding Berkshire Park soil landscapes at Plumpton Ridge and Riverstone (Bannerman and Hazelton 1990).

Of specific relevance to the study area, several archaeological assessments have been undertaken both within the study area and in the context of the greater Liverpool LGA and Georges River corridor. A selection of these assessments are summarised below.

Aboriginal Site Survey Report: Liverpool Weir Fishway (GLALC 1996)

In 1996, Gandangara Local Aboriginal Land Council undertook a site survey assessment to inform the proposed development of a fishway at Liverpool Weir, Liverpool. The site is located on the eastern bank of the Georges River, ~400m east of the current study area.

The aims of the survey were to identify any Aboriginal artefacts, and assess their significance. The survey identified two lithic artefacts during the field survey, located along the dirt track that leads down to the weir. The artefacts were identified as one grey banded mudstone artefact, and one small red silcrete flake. The relationship between these artefacts was not recorded, nor was any spatial information noted; as such the extent of this site is unknown. While the site is registered as an open camp site (AHIMS #45-5-2540), the artefacts in the report are identified as isolated finds. The site was reported in good condition.

The Georges River Estuary Cultural Heritage (Kayandel 2010)

This report attempted to identify, collect and collate existing information regarding Aboriginal cultural heritage in the area along the Georges River estuary, from Liverpool Weir to Botany Bay. As the current study area is located within 400m of the Georges River, the findings of this report are relevant for this assessment.

The report identified 112 Aboriginal sites recorded along the Georges River, though none were found within the current study area. Regarding the types of sites identified in the study, middens were most frequent (57% of sites), followed by pigment art sites (20% of sites) and lithic artefacts (15% of sites). Engraved art and grinding grooves were noted as rare. Three scarred trees were reported; one of which has been moved to the Australian Museum. One burial was reported, though it is unknown if this burial is a modern reburial of ancestral remains. Most sites had been affected by some level of disturbance, often in relation to construction, excavation or landscaping.

However, substantial gaps in available information were identified, particularly in regard to the formal recording of sites and insufficient knowledge regarding current physical condition of

known sites. The report also identified a documentation bias for large or visible prehistoric sites, and a general lack of information on Aboriginal historic sites or places.

Liverpool Weir Embankment Stabilisation – Construction Access Works: Aboriginal Heritage Due Diligence Assessment (Extent Heritage 2018)

In 2018, Extent Heritage undertook a due diligence assessment of two proposed construction access routes required for proposed embankment stabilisation works along the Georges River, near Liverpool Station and north of Liverpool Weir. This study is located approximately 350m from the current study area and includes a portion of Light Horse Park in its assessment.

This assessment noted that the landscape comprising the east and west banks of the Georges River at this location had been heavily modified as a result of European settlement. Major landscape modifications in the study area included terracing, filling, and reclamation. Due to the historical land use of the area for agricultural purposes, documented use of the study area for farming, and the construction activities associated with the weir, multiple road and rail bridges, likelihood of in situ Aboriginal archaeological deposits within the study area was considered low.

As part of this assessment, the location of AHIMS #45-5-2540 was revisited. While the site inspection could not confirm the continued presence of this site, no evidence was found to indicate that the site had been removed, and no record has been found to indicate that a permit has been issued for removal of the site.

AHIMS database

Heritage NSW maintains the Aboriginal Heritage Information Management System (AHIMS), a database of known and registered Aboriginal sites in NSW. An AHIMS search was carried out on 4 November 2019 (Client Service ID 461579), centred on the study area and encompassing an area of 9km². The full search results are listed in Appendix 1 and shown in Figure 3. There are 83 registered Aboriginal sites within the search area: two have been destroyed, one is listed as 'not a site' (#45-6-2428), and two are duplicates (#45-5-2355 and #45-5-2369). In addition, one Aboriginal Place is listed within the search parameters. No Aboriginal sites or Aboriginal Places have been registered within the curtilage of the study area.

Heritage NSW has a list of specific site features that are used to describe all sites registered in AHIMS, and a site can have one or more site features. For the 80 valid sites with the search area, five site features are recorded; these are summarised in Table 1. The most common site features surrounding the study area are artefacts (artefact scatters and/or isolated objects), with a small but significant number of scarred trees and Potential Archaeological Deposits (PADs) also present. Scarred trees within the surrounding area are commonly found within old growth riparian forests or Sydney coastal river-flat forests with canopy coverage over 10%, usually within close proximity (<500m) to major waterways. A number of PADs have also been identified. These PADs are also in close proximity to major waterways, and some appear to be on areas of higher elevation.

One Aboriginal Place (Collingwood House Precinct) is also registered within the surrounding landscape of the study area. Collingwood House Precinct is a 'high ground' meeting place for Dharawal, Gandangara and Dharug Aboriginal people, and a vantage point from which to

observe Country (at between 32-40 m AHD). Coupled with its status as a meeting place, the hilltop and ridgeline provided views across the landscape, used for observing and monitoring the landscape including changes in weather patterns, threats from fire, and seasonal vegetation. The site is also associated with early engagement and conflicts between colonial settlers and Aboriginal people. It continues to be used by Aboriginal people today.

There is one recorded site within 500m of the study area (AHIMS #45-5-2540). This site comprises two lithic artefacts, and is described as an open camp site. The coordinates recorded in AHIMS places the site in the Georges River, and are likely to be incorrect. The site is described as being located along the dirt track that slopes down towards the weir on the eastern bank of the Georges River, and the plan included in the associated report also places it in this location. This site was registered as being in good condition at the time of recording; however, as previously noted, it was unable to be relocated during a site inspection in 2018 (Extent 2018).

Table 1. Summary of AHIMS search results. This summary does not include the two duplicate sites, nor the destroyed site.

Site feature	Count	% of total
Artefact	57	71.25
Modified Tree (Carved or Scarred)	9	11.25
Artefact, Potential archaeological deposit (PAD)	8	10.00
Potential archaeological deposit (PAD)	4	5.00
Art (pigment or engraved)	1	1.25
Shell	1	1.25
Total	82	100.00

Site inspection

A site inspection was undertaken on 11 November 2019 by Francesca McMaster (Heritage Advisor) of Extent Heritage. The study area was inspected to identify any previously unrecorded Aboriginal objects and/or areas of potential that may be present. The study area currently consists of numerous commercial lots, and comprises a large structure in the north along Scott Street and a multi-storey asphalt carpark in the south along Terminus Street (**Figure 7** and **Figure 8**). Topographically, the study area is located on the upper slopes of a hilltop, and slopes from Terminus Street in the south down to Scott Street in the north (**Figure 9**). Prior to the urbanisation of the area, the study area would have afforded views north along the Georges River.

The site inspection confirmed that the study area has been subject to significant disturbance since European contact, namely from landscape modification to facilitate construction activities and localised erosion downslope in the vacant block. Overall, most of the study area was covered by hard surfaces, including concrete, and afforded no visibility of the soil or soil profile in these areas (**Figure 10**). A few ground exposures were present across the site, namely in the empty lot between the east and western buildings within the study area (i.e. Lot 11 DP 522284;

Lot 12 DP 657056). Where visible, these provided further evidence for the truncated nature of the study area, which has been compounded further by downslope erosion (**Figure 12**). The erosion has stripped away the finer clay loam topsoil, exposing angular fragments of shale and sandstone overlying heavy clays (B horizon). These exposures were inspected for the presence of Aboriginal stone objects, but none were observed.

The construction of the carpark and buildings appear to have involved the removal of a large portion, or all, of the upper soil profile of the study area. The topography of the study area observed during the site inspection shows evidence of modification, in particular cut and fill earthworks to level the site for construction (**Figure 9** and **Figure 11**). The soil landscape within the study area presents as a shallow A horizon (10-30cm) and no evidence of overlying fill was observed, however portions of the carpark appear cut into the landscape. The site inspection suggests that while the full extent of the cut and fill works are unknown, it is highly likely that the development activities have impacted up to 30cm of the shallow A horizon, thus removing its archaeological potential.

Vegetation was observed in small garden areas at the entrance to the carpark on Terminus Street, however these are immature, introduced trees; no trees observed within the study area bear evidence of Aboriginal cultural modification.

Conclusions and recommendations

The assessment investigated the proposed development within the study area, and the potential for Aboriginal objects to occur. Based on the environmental and archaeological background of the region, it is considered that the main evidence of past Aboriginal occupation would be in the form of artefacts (scatters or isolated finds) and potential archaeological deposits found upon and/or within a shallow duplex soil profile. Typically, the cultural deposits would be constrained to the upper 30cm, and would be located in close proximity to permanent water sources.

Topographically, the study area is located on the upper slopes of a hilltop, and the nearest water source, the Georges River, is located ~400m metres away, and the study area can therefore be considered to be some distance from the nearest water source. The study area has been subject to significant disturbance since European settlement. The land around the study area has been subject to heavy urban development, as it is situated squarely within Liverpool, one of the oldest urban settlements in Australia. Historical aerials suggest multiple phases of construction evidenced across the study area, with developments that imply both surface and subsurface impacts.

A site inspection confirmed heavy disturbance across the study area as a result of this development, including bulk cut and fill earth works. As there is no evidence that the multi-storey carpark was built atop introduced fill foundations, it is therefore more likely to have cut into the topsoil during construction in order to level the foundation. This impact has resulted in the truncation of the shallow upper soil profile, which typically contains cultural deposits (if present). Within the areas of the study area where ground surface visibility was considered good, erosional processes have removed the upper soil profile and exposed the underlying heavy clays, thus precluding the potential for archaeological deposits. Additionally, the site inspection did not identify any Aboriginal sites or objects. It is therefore considered that the proposed works

within the study area will have a low likelihood of causing harm to Aboriginal objects, and that work may proceed with caution, and in accordance with the recommendations below.

Taking the above conclusions into consideration, the following recommendations are made with regard to Aboriginal cultural heritage:

- Development work in the study area may proceed with caution. It is considered that there is a low risk of Aboriginal objects being present within the study area. However, the nature of disturbance does not preclude the potential for isolated finds, which is a common site type across the region, even in disturbed contexts. In the event that unexpected Aboriginal objects, sites or places (or potential Aboriginal objects, site or places) are discovered during construction, all works in the vicinity should cease and the proponent should determine the subsequent course of action in consultation with a heritage professional and/or Heritage NSW as appropriate. A process of consultation with Aboriginal community representatives would also be required.
- This document may be summarised within and/or appended to a Development Application, Statement of Environmental Effects (SEE) or Review of Environmental Factors (REF). If any Aboriginal objects are later identified within the proposed activity area, this report cannot, however, be used to support an application for an Aboriginal Heritage Impact Permit (AHIP). Such an application would require more detailed investigation involving a formal process of Aboriginal community consultation and the preparation of an Aboriginal Cultural Heritage Assessment Report (ACHAR).
- If human skeletal material less than 100 years old is discovered, the *Coroners Act 2009* requires that all works should cease and the NSW Police and the NSW Coroner's Office should be contacted. Traditional Aboriginal burials (older than 100 years) are protected under the *National Parks and Wildlife Act 1974* and should not be disturbed. Interpreting the age and nature of skeletal remains is a specialist field and an appropriately skilled archaeologist or physical anthropologist should therefore be contacted to inspect the find and recommend an appropriate course of action. Should the skeletal material prove to be archaeological Aboriginal remains, notification of Heritage NSW and the Local Aboriginal Land Council will be required. Notification should also be made to the Commonwealth Minister for the Environment, under the provisions of the *Aboriginal and Torres Strait Islander Heritage Protection Act 1984*.

References

Bannerman, S. M. and Hazelton, P. A. (1990). Soil Landscapes of the Penrith 1:100,000 Sheet. Sydney: Soil Conservation Service of NSW.

Bewsher Consulting Pty Ltd. (2001). 'Have We Forgotten About Flooding on the Georges River?' Presented at the 2001 Floodplain Management Authorities Conference.

City Plan Heritage Pty. Ltd. (2015). Aboriginal Cultural Heritage Due Diligence Assessment: 20 Shepherd Street, Liverpool. Report for Liverpool City Council.

DECCW (2010). *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*, Department of Environment, Climate Change and Water, Sydney.

Gandangara Local Aboriginal Land Council (GLALC) (1996). Aboriginal Site Survey Report: Liverpool Weir Fishway. Report to Dams and Civil.

Haglund, L. (1980). Report on an Archaeological Survey in the City of Blacktown. Report for NSW National Parks and Wildlife Service.

Kayandel Archaeological Services (Kayandel) (2010). 'The Georges River Estuary Cultural Heritage.' Unpublished report, prepared for SMEC and the Georges River Estuary Management Committee.

Kohen, J. (1986). Prehistoric Settlement in the Western Cumberland Plain: Resources, Environment and Technology. Unpublished PhD Thesis, School of Earth Sciences, Macquarie University, Sydney.

McCarthy E. D. (1948). The Lapstone Creek excavation: two culture periods revealed in eastern New South Wales. *Records of the Australian Museum* 22(1): 77-79.

Navin Officer Heritage Consultants (2014). Moorebank Intermodal Terminal: Aboriginal Heritage Assessment- Addendum- Archaeological Subsurface Testing (MRSA2). Report for Parsons Brinckerhoff.

NSW National Parks and Wildlife Service (NPSW) (2002). Native vegetation of the Cumberland Plain. Map 4 of 16. NSW National Parks and Wildlife Service, Hurstville.

NSW National Parks and Wildlife Service (NPSW) (2003). The Bioregions of New South Wales: their biodiversity, conservation and history, NSW National Parks and Wildlife Service, Hurstville.

Office of Environment & Heritage (OEH) (2010). Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW. OEH, Sydney.

OEH (2016). 'eSPADE', NSW Soil and land information [electronic database]. Retrieved 17/10/2019, from <http://www.environment.nsw.gov.au/eSpadeWebApp/>.

Smith, L. J. (1989). Archaeological site survey and analyses of sites on the northern Cumberland Plain. Unpublished Report to NSW National Parks and Wildlife Service.

Turf Design (2002). Georges River corridor Plan of Management and Master Plan. Report to Liverpool Council.

Turnbaugh, W. (1978). Floods and Archaeology. *American Antiquity*, vol. 43, no. 4, pp. 593-607. doi:10.2307/279491

White, E. and McDonald J. (2010). Lithic artefact distribution in the Rouse Hill Development Area, Cumberland Plain, New South Wales. *Australian Archaeology*. 70: 29-38.

Table 2. Site-specific responses to Heritage NSW due diligence questions.

1	Will the activity disturb the ground surface or any culturally modified trees?	
	The proposed development includes construction works across the site, and will disturb the ground surface. No culturally modified trees have been identified within the study area.	Proceed to question 2.
2a	Are there any relevant confirmed site records or other associated landscape feature information on AHIMS?	
	No. The AHIMS database does not record any sites within the study area. The nearest recorded site is ~320m east, and no other sites are located within 1km of the study area.	Proceed to question 2b.
2b	Are there any other sources of information of which a person is already aware?	
	No. The research undertaken for the present assessment did not identify any other relevant sources of information indicating the presence of known sites within the study area.	Proceed to question 2c.
2c	Are there any landscape features that are likely to indicate presence of Aboriginal objects?	
	No. The study area is located on the upper slopes and crest of a hill, and is located some ~350m from water (Georges River).	Proceed to question 3.
3	Can harm to Aboriginal objects listed on AHIMS or identified by other sources of information and/or can the carrying out of the activity at the relevant landscape features be avoided?	
	Not applicable.	Proceed to question 4.
4	Does a desktop assessment and visual inspection confirm that there are Aboriginal objects or that they are likely?	
	Assessment and inspection indicates that the study area contains no Aboriginal sites and has been subject to extensive ground disturbance through previous land use and downslope erosion. This disturbance is considered likely to have substantially impacted and removed any archaeological remains of past Aboriginal occupation, and reduced the likelihood of Aboriginal objects being present within the study area.	Further assessment not required; works may proceed with caution.

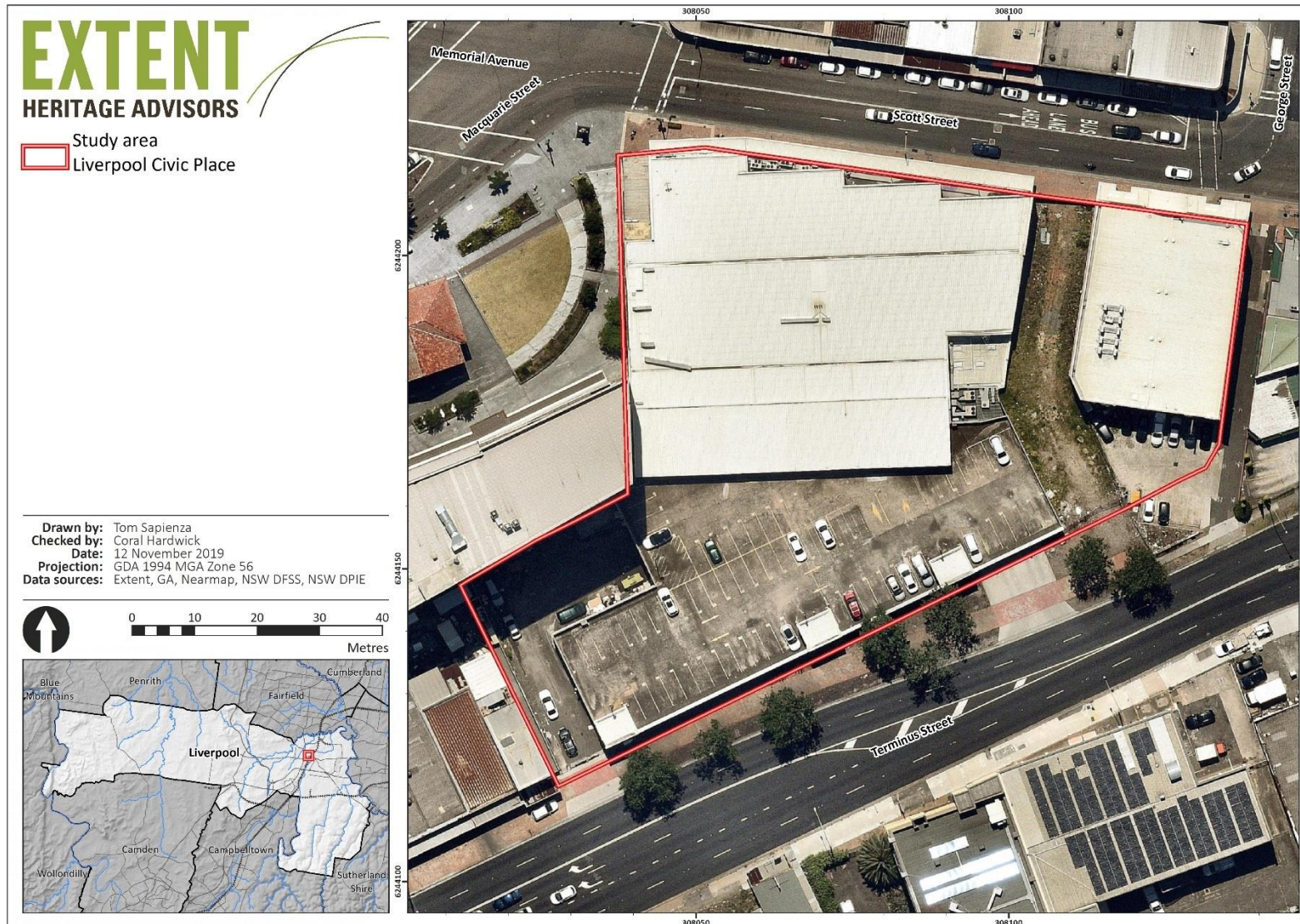


Figure 1. The study area.

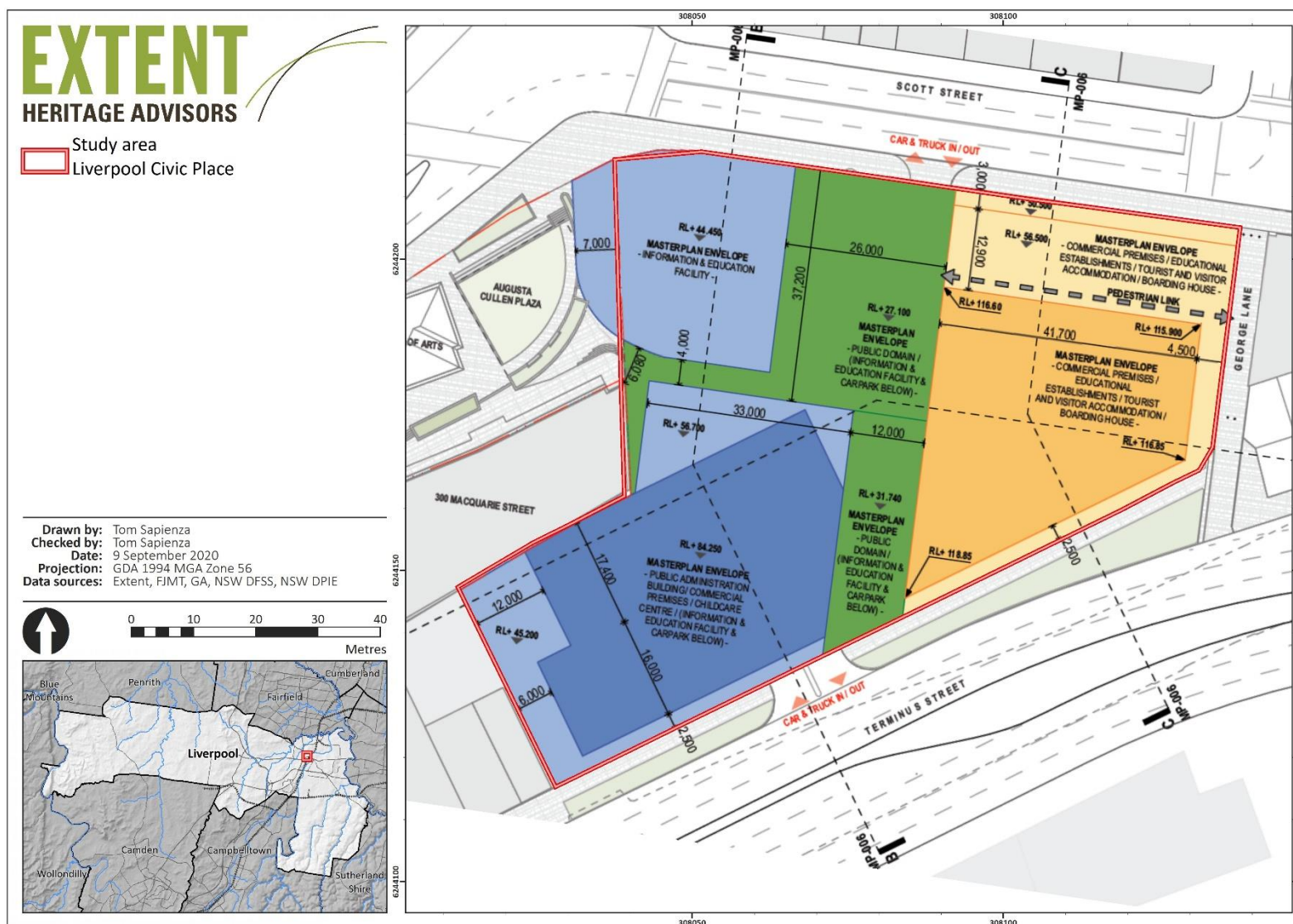


Figure 2. The developments proposed within the study area.

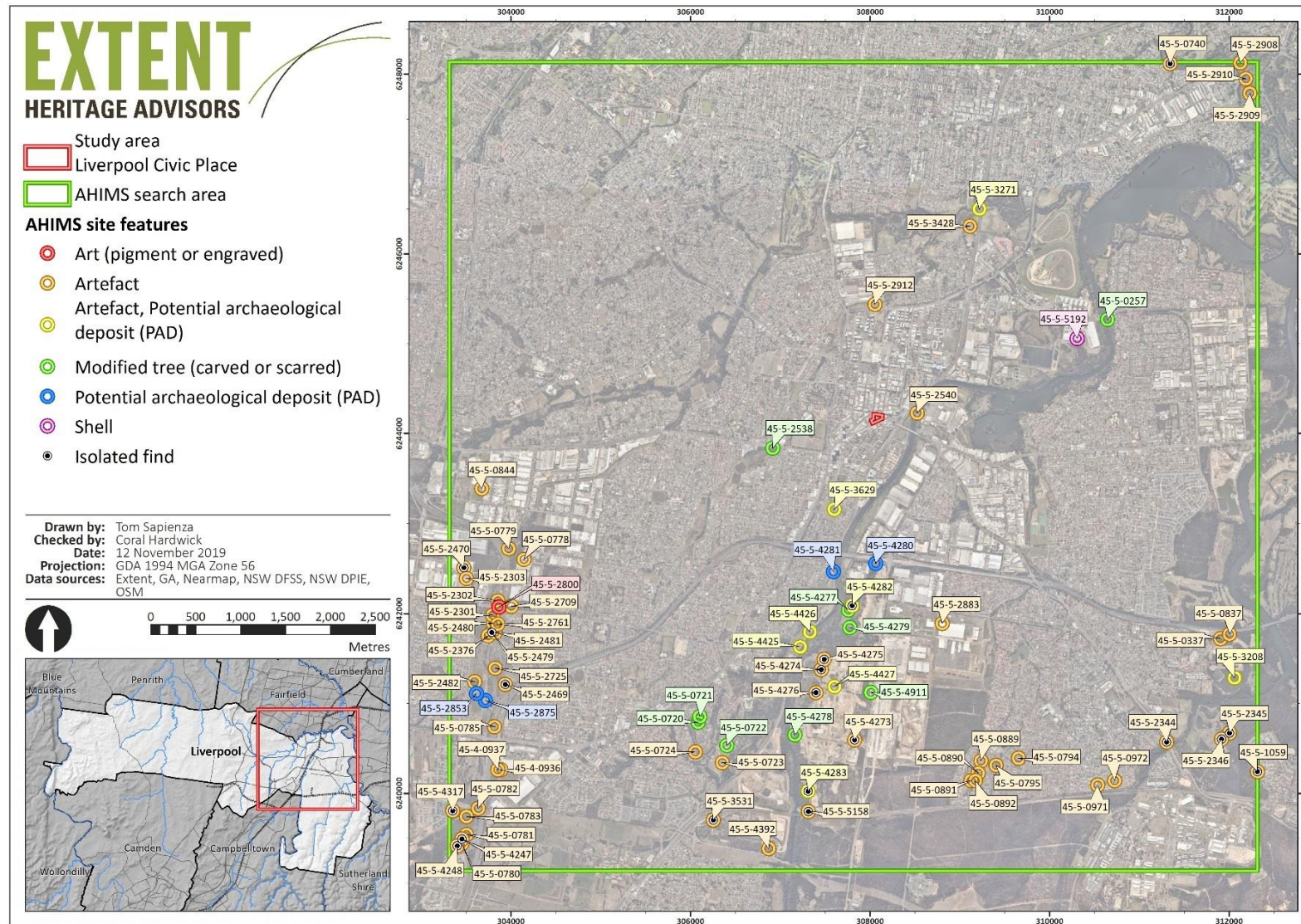


Figure 3. Results of the AHIMS search.



Figure 4. Aerial photograph of the study area in 1930.



Figure 5. Aerial photograph of the study area in 1961.

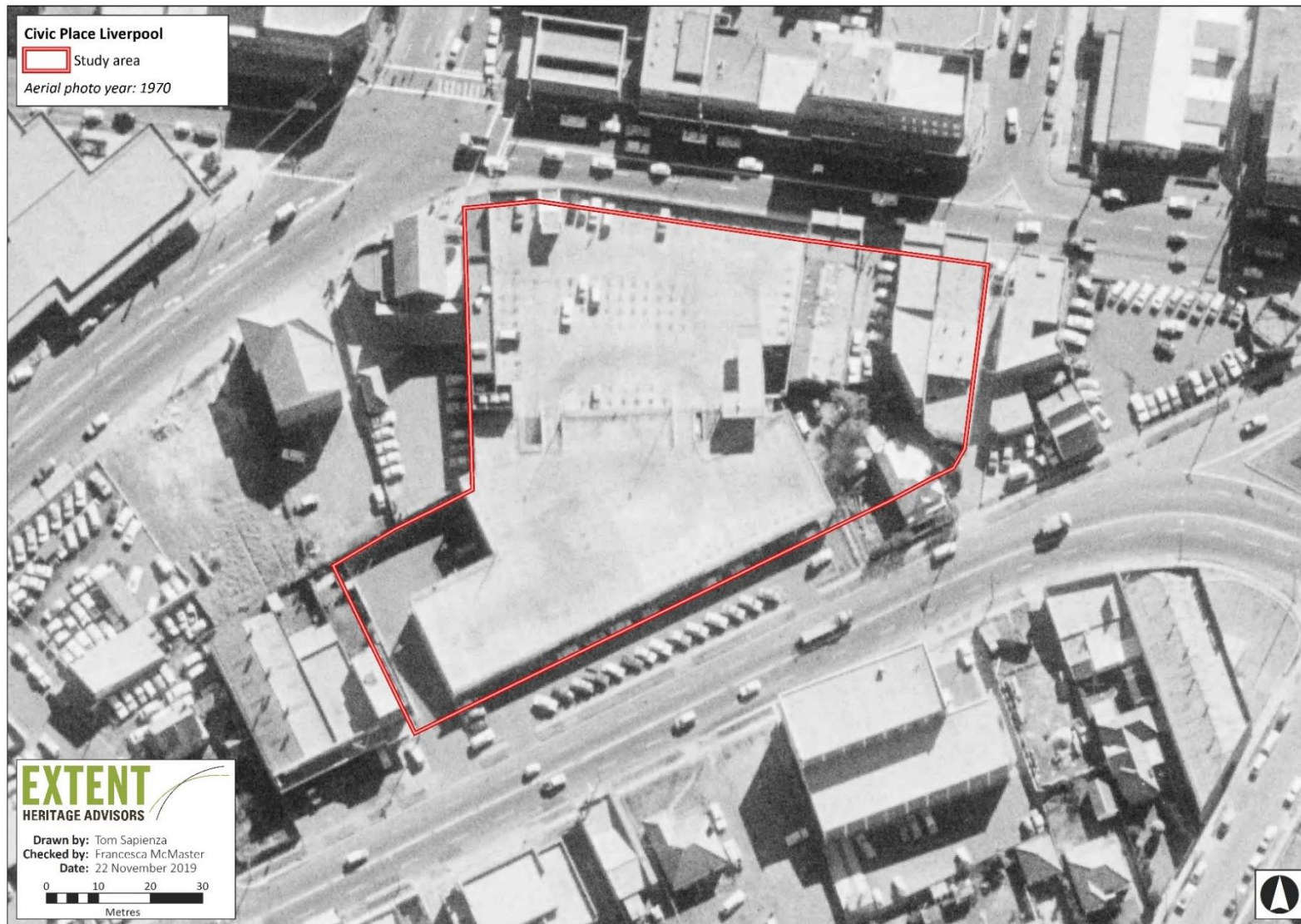


Figure 6. Aerial photograph of the study area in 1970.



Figure 7. Commercial lots along Scott Street.



Figure 8. The multi-storey carpark on Terminus Street, cut into the slope of the hill.

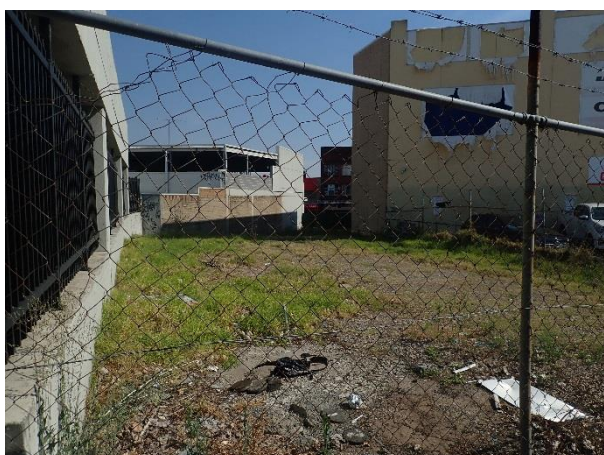


Figure 9. Sloping nature of the empty lot, facing north.



Figure 10. Asphalt and paved areas adjacent to the carpark on Terminus Street.



Figure 11. The interior of the carpark, further evidencing the highly truncated nature of the area.

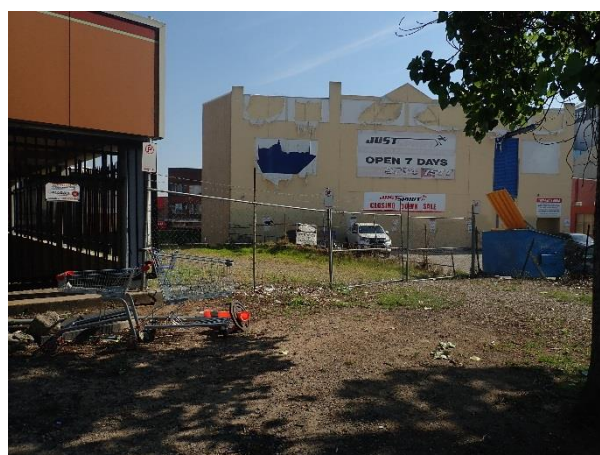


Figure 12. Empty lot with ground surface exposure.

AHIMS search

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 20190408 liverpool civic

Client Service ID : 461579

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2725	PAD-OS-1	AGD	56	303720	6241200	Open site	Valid	Artefact : -		98369,98370,9 8371,98443,98 739
	Contact	Recorders	Mrs.Robynne Mills					Permits	1396	
45-5-2800	MC9	AGD	56	303760	6241880	Open site	Valid	Art (Pigment or Engraved) : -		98369,98370,9 8371,98443,98 739
	Contact	Recorders	Mr.Neville Baker					Permits		
45-5-2709	P-CP16	AGD	56	303900	6241890	Open site	Valid	Artefact : -		3726,98369,98 370,98371,984 43,98739
	Contact	Recorders	Helen Brayshaw,Ms.Elizabeth White					Permits	1637	
45-5-2761	P-CP15	AGD	56	303750	6241690	Open site	Valid	Artefact : -		3726,98369,98 370,98371,984 43,98739
	Contact	Recorders	Helen Brayshaw,Ms.Elizabeth White					Permits	1398	
45-5-2909	Mirambeena Regional Park 2	AGD	56	312125	6247600	Open site	Valid	Artefact : 18		102196
	Contact	Recorders	Michael Guider					Permits		
45-5-2910	Mirambeena Regional Park 3	GDA	56	312185	6247952	Open site	Valid	Artefact : 3		102196
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA),Michael Guider,Ms.Tamika Goward					Permits		
45-5-2912	Brickmakers Creek	AGD	56	307950	6245250	Open site	Destroyed	Artefact : 8		102196
	Contact	Recorders	Michael Guider					Permits		
45-5-2875	PAD 6 Open Campsite	AGD	56	303610	6240840	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Central West Archaeological and Heritage Services Pty Ltd					Permits	1737	
45-5-2908	Mirambeena Regional Park 1	GDA	56	312124	6248126	Open site	Valid	Artefact : 100		102196
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA),Michael Guider,Ms.Tamika Goward					Permits		
45-5-2480	Maxwells Creek 12 (MC12)	AGD	56	303700	6241700	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	Contact	Recorders	Ms.Elizabeth White					Permits		
45-5-0889	WG 4 (Wattle Grove)	AGD	56	309130	6240170	Open site	Valid	Artefact : -	Open Camp Site	2474
	Contact	Recorders	Philip Boot					Permits	465	
45-5-0794	Holsworthy (H) 2;	AGD	56	309550	6240200	Open site	Valid	Artefact : -	Open Camp Site	1934
	Contact	Recorders	Philip Boot					Permits	456	

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AHIMS Web Services (AWS)

Extensive search - Site list report

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Client Service ID : 461579

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2538	HPR-ST-1	AGD	56	306810	6243650	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	98443
	Contact	Recorders	Mrs.Robynne Mills					Permits		
45-5-2540	Liverpool Weir ocs1	AGD	56	308420	6244040	Open site	Valid	Artefact : -	Open Camp Site	98443,102340
	Contact	Recorders	Jeff Thomas					Permits		
45-5-1059	Voyager Point ISF 2;VP ISF2;	AGD	56	312210	6240050	Open site	Valid	Artefact : -	Isolated Find	
	Contact	Recorders	Doctor.Jo McDonald,Elizabeth Rich					Permits		
45-5-0890	WG3 (Wattle Grove)	AGD	56	309100	6240030	Open site	Valid	Artefact : -	Open Camp Site	2474
	Contact	Recorders	Philip Boot					Permits	465	
45-5-0891	WG2 (Wattle Grove)	AGD	56	309020	6239950	Open site	Valid	Artefact : -	Open Camp Site	2474
	Contact	Recorders	Philip Boot					Permits	465	
45-5-0892	WG1 (Wattle Grove)	AGD	56	309070	6239950	Open site	Valid	Artefact : -	Open Camp Site	2474
	Contact	Recorders	Philip Boot					Permits	465	
45-5-2301	P-CP1	AGD	56	303690	6241790	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	Contact	Recorders	Helen Brayshaw					Permits		
45-5-2302	GP-CP2;	AGD	56	303750	6241950	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443
	Contact	Recorders	Helen Brayshaw					Permits	850	
45-5-2303	P-CP3	AGD	56	303400	6242200	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	Contact	Recorders	Helen Brayshaw					Permits		
45-5-0337	Greenwood 1;Freeway No.5;	AGD	56	311800	6241530	Open site	Valid	Artefact : -	Open Camp Site	260,824,1018,2 132
	Contact	Recorders	F Cain,Ms.Laila Haglund					Permits	285,337	
45-5-0971	WG03-2	AGD	56	310430	6239900	Open site	Valid	Artefact : -	Open Camp Site	2826
	Contact	Recorders	Philip Boot					Permits		
45-5-0972	WG03-1	AGD	56	310620	6239950	Open site	Valid	Artefact : -	Open Camp Site	2826
	Contact	Recorders	Philip Boot					Permits	702,905	
45-5-2344	Holsworthy IF 4;	AGD	56	311200	6240380	Open site	Destroyed	Artefact : -	Isolated Find	
	Contact	Recorders	Mrs.Robynne Mills					Permits		
45-5-2345	Holsworthy IF 2,3;	AGD	56	311900	6240480	Open site	Valid	Artefact : -	Isolated Find	
	Contact	Recorders	Mrs.Robynne Mills					Permits		
45-5-2346	Holsworthy IF 1;	AGD	56	311810	6240410	Open site	Valid	Artefact : -	Isolated Find	

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 20190408 liverpool civic

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-0844	Prestons 1;	AGD	56	303570	6243200	Open site	Valid	Artefact : -	Open Camp Site	2165,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	311	
45-6-2428	Glenfield S.T.	AGD	56	306200	6239600	Open site	Not a Site	Modified Tree (Carved or Scarred) : -	Scarred Tree	103036
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-2355	WGO 3-1; (duplicate copy 45-5-0972)	AGD	56	310620	6239950	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-2369	WGO3-2;(REFER TO 45-5-0971)	AGD	56	310430	6239900	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-2376	P-CP10	AGD	56	303640	6241560	Open site	Valid	Artefact : -	Open Camp Site	3726,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	1564	
45-5-0720	Kiawaka 3	AGD	56	305980	6240600	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1360
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	264	
45-5-0721	Kiawaka 4	AGD	56	306000	6240660	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1360
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-0722	Kiawaka 5	AGD	56	306300	6240340	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	1360
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	2521	
45-5-0723	Kiawaka 2	AGD	56	306250	6240150	Open site	Valid	Artefact : -	Open Camp Site	1360
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-0724	Kiawaka 1	AGD	56	305950	6240270	Open site	Valid	Artefact : -	Open Camp Site	1360
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-0837	Toll Plaza Site 1;TPS 1;	AGD	56	311900	6241580	Open site	Valid	Artefact : -	Open Camp Site	2132
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-0740	Carawood Park Caramar	GDA	56	311342	6248117	Open site	Valid	Artefact : -	Isolated Find	102196
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
45-5-0778	MC-1 (Maxwells Creek)	AGD	56	304040	6242410	Open site	Valid	Artefact : -	Open Camp Site	1727,97544

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Extensive search - Site list report

Your Ref/PO Number : 20190408 liverpool civic

Client Service ID : 461579

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>	1025	
45-5-0779	MC-2 (Maxwells Creek)	AGD	56	303870	6242530	Open site	Valid	Artefact : -	Open Camp Site	1727,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>		
45-5-0780	MC-3 (Maxwells Creek)	AGD	56	303350	6239250	Open site	Valid	Artefact : -	Open Camp Site	1727,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>		
45-5-0781	MC-4 (Maxwells Creek)	AGD	56	303400	6239350	Open site	Valid	Artefact : -	Open Camp Site	1727,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>		
45-5-0782	MC-5 (Maxwells Creek)	AGD	56	303530	6239640	Open site	Valid	Artefact : -	Open Camp Site	1727,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>		
45-5-0783	MC-6;	AGD	56	303400	6239550	Open site	Valid	Artefact : -	Open Camp Site	1727,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>		
45-5-0785	MC-8;	AGD	56	303710	6240550	Open site	Valid	Artefact : -	Open Camp Site	1727,98369,98 370,98371,984 43,98739
	<u>Contact</u>	<u>Recorders</u>	Alice Gorman,Laura-Jane Smith					<u>Permits</u>		
45-5-2853	PAD 6 WSO	AGD	56	303510	6240920	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Helen Brayshaw					<u>Permits</u>	1638	
45-5-3531	Glenfield 1	GDA	56	306252	6239702	Open site	Valid	Artefact : 1		103034
	<u>Contact</u>	<u>Recorders</u>	Australian Museum Consulting (AM Consulting)					<u>Permits</u>		
45-5-0795	Holsworthy (H) 1;	AGD	56	309300	6240120	Open site	Valid	Artefact : -	Open Camp Site	1934
	<u>Contact</u>	<u>Recorders</u>	Philip Boot					<u>Permits</u>	456	
45-5-3428	CC 1	GDA	56	309112	6246310	Open site	Valid	Artefact : 27		
	<u>Contact</u>	<u>Recorders</u>	Michael Therin					<u>Permits</u>		
45-5-3629	Collingwood Park (CW 1)	GDA	56	307600	6243160	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		101316
	<u>Contact</u>	<u>Recorders</u>	Mr.Oliver Brown					<u>Permits</u>	3184,3992,4416	

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Extensive search - Site list report

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-0257	Liverpool Chipping Norton	AGD	56	310540	6245081	Open site	Valid	Modified Tree (Carved or Scarred) : -	Scarred Tree	260,1018,1021 96
	Contact	Recorders	David Bell					Permits		
45-5-4273	MA2A	GDA	56	307826	6240593	Open site	Valid	Artefact : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4274	MA3A	GDA	56	307456	6241375	Open site	Valid	Artefact : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4275	MA4A	GDA	56	307489	6241489	Open site	Valid	Artefact : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4276	MA5A	GDA	56	307396	6241118	Open site	Valid	Artefact : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4277	MA7A	GDA	56	307758	6242040	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4278	MA8A	GDA	56	307162	6240648	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4279	MA6A	GDA	56	307774	6241842	Open site	Valid	Modified Tree (Carved or Scarred) : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4280	MA PAD1	GDA	56	308063	6242558	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4281	MA PAD2	GDA	56	307591	6242466	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4282	MA10	GDA	56	307801	6242087	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-4247	CR03	GDA	56	303452	6239489	Open site	Valid	Artefact : 1		
	Contact	Recorders	Doctor.Sandra Wallace					Permits		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-4248	CR04	GDA	56	303399	6239413	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	Doctor.Sandra Wallace					<u>Permits</u>		
45-5-4283	MA1A	GDA	56	307309	6240020	Open site	Valid	Artefact : 1, Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	<u>Recorders</u>	Navin Officer Heritage Consultants Pty Ltd					<u>Permits</u>		
45-5-4317	CVWIF2	GDA	56	303350	6239805	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	Mr.Joshua Madden,Artefact - Cultural Heritage Management					<u>Permits</u>		
45-5-5158	MA14	GDA	56	307312	6239795	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	Doctor.Alan Williams					<u>Permits</u>		
45-5-5192	Shell Midden OPTRd	AGD	56	310203	6244869	Open site	Valid	Shell : 1		
	<u>Contact</u>	<u>Recorders</u>	Ms.Penny Mccardle					<u>Permits</u>		
45-5-2479	IF 1 (isolated find)	AGD	56	303680	6241600	Open site	Valid	Artefact : -	Isolated Find	98369,98370,9 8371,98443,98 739
	<u>Contact</u>	<u>Recorders</u>	Ms.Elizabeth White					<u>Permits</u>		
45-5-2481	Maxwells Creek 11 (MC11)	AGD	56	303720	6241600	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	<u>Contact</u>	<u>Recorders</u>	Ms.Elizabeth White					<u>Permits</u>	1398	
45-5-2482	Maxwells Creek 10 (MC10)	AGD	56	303490	6241050	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	<u>Contact</u>	<u>Recorders</u>	Ms.Elizabeth White					<u>Permits</u>	1564	
45-5-2469	IF1	AGD	56	303830	6241020	Open site	Valid	Artefact : -	Isolated Find	98369,98370,9 8371,98443
	<u>Contact</u>	<u>Recorders</u>	Helen Brayshaw					<u>Permits</u>	1398	
45-5-2470	IF2	AGD	56	303370	6242320	Open site	Valid	Artefact : -	Isolated Find	98369,98370,9 8371,98443,98 739
	<u>Contact</u>	<u>Recorders</u>	Helen Brayshaw					<u>Permits</u>		
45-4-0936	Crossroad 1	AGD	56	303780	6240070	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	<u>Contact</u>	<u>Recorders</u>	Kerry Navin,Mr.Kelvin Officer					<u>Permits</u>	987	
45-4-0937	Crossroad 2	AGD	56	303750	6240070	Open site	Valid	Artefact : -	Open Camp Site	98369,98370,9 8371,98443,98 739
	<u>Contact</u>	<u>Recorders</u>	Kerry Navin,Mr.Kelvin Officer					<u>Permits</u>	986	

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2883	MB.1	AGD	56	308700	6241700	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mary Dallas Consulting Archaeologists (MDCA)							
45-5-3208	SPL 1	AGD	56	311954	6241094	Open site	Valid	Artefact : 5, Potential Archaeological Deposit (PAD) : 1		
	<u>Contact</u>	<u>Recorders</u>	Doug Binns							
45-5-3271	CC1	AGD	56	309112	6246310	Open site	Valid	Potential Archaeological Deposit (PAD) : -, Artefact : -	2501	102196
	<u>Contact</u>	<u>Recorders</u>	Australian Museum Consulting (AM Consulting)							
45-5-4392	GWD3	GDA	56	306870	6239382	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Doctor.Alan Williams							
45-5-4425	MA11	GDA	56	307222	6241626	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Mrs.Nicola Hayes							
45-5-4426	MA12	GDA	56	307329	6241796	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Mrs.Nicola Hayes							
45-5-4427	MA13	GDA	56	307602	6241186	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Mrs.Nicola Hayes							
45-5-4911	Moorebank Scar Tree	GDA	56	308009	6241121	Open site	Valid	Modified Tree (Carved or Scarred) : -		
	<u>Contact</u>	<u>Recorders</u>	Dummy Organisation for AHIMS APP Users,Doctor.Paul Wynn							

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