

Project Number: HN001260-A



ABORIGINAL HERITAGE DUE DILIGENCE REPORT – 1-5 STATION LANE, LOCHINVAR

FINAL 21 / 11 / 2024

REPORT TO: MAVID DEVELOPMENT PTY LTD
20 Mustang Drive, Rutherford, NSW 2320

REPORT BY: HERITAGE NOW PTY LTD
projects@heritagenow.com.au
0460 744 466
www.heritagenow.com.au



Executive Summary

Heritage Now Pty Ltd was engaged by Mavid Development to prepare an Aboriginal Heritage Due Diligence report for a Development Application addressing proposed child care centre development works at 1-5 Station Lane, Lochinvar.

This assessment included a review and analysis of background information, and a site inspection undertaken by Kylie McDonald (Heritage Consultant) and Jason Brown (Mindaribba Local Aboriginal Land Council).

The site inspection identified an isolated artefact in a moderately disturbed context (ST LN AFT-01), which is located within the riparian zone and will not be directly impacted by the development; however, it may be inadvertently impacted during construction works.

While the Project Area is located in the vicinity of a 3rd order (non-perennial) creek, the construction of the buildings and associated services (including water, sewer, telecommunications and electricity), accessways and landscaping has impacted the potential for intact archaeology to be present, particularly in the eastern part of the Project Area. It is therefore considered that the proposed works will have a low likelihood of causing harm to Aboriginal objects and may proceed subject to the recommendations below.

Recommendation 1

ST LN AFT-01 is to be cordoned off using temporary fencing prior to the commencement of ground disturbing works. This will prevent any inadvertent impacts to the site.

Recommendation 2

All on-site personnel are to be made aware of their obligations under the *National Parks and Wildlife Act 1974*. This includes protection of Aboriginal sites and the reporting of any new, or suspected, Aboriginal heritage sites. This may be done through an on-site induction or other suitable format.

Recommendation 3

In the unlikely event that Aboriginal, or suspected Aboriginal, archaeological material is uncovered during the development, then works in that area are to stop and the area is to be cordoned off. The Project Manager is to contact the heritage consultant to make an assessment as to whether the material is classed as Aboriginal object/s under the *National Parks and Wildlife Act 1974* and advise on the required management and mitigation measures. Works are not to recommence in the cordoned off area until heritage clearance is given and/or the required management and mitigation measures have been implemented.

Recommendation 4

In the unlikely event that human remains, or suspected human remains, are uncovered during the development, then works in that area are to stop and the area is to be cordoned off. The Project Manager is to contact the NSW Police to establish whether the area is a crime scene. If it is not a crime scene, and the remains are determined to be Aboriginal ancestral remains, then Heritage NSW is to be notified via the Environment Line on 131 555 and management measures are to be devised in consultation with the Aboriginal stakeholders. Works are not to recommence in the area until the management measures have been implemented.

Acronyms and Definitions

Acronym/Term	Definition
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
BCE	Before Common Era
BP	Before Present
DCP	Development Control Plan
DCS	Department of Customer Service
DECCW	Department of Environment, Climate Change and Water
DP	Deposited Plan
DPE	Department of Planning and Environment
EP&A Act	<i>Environmental Planning and Assessment Act 1979 (NSW)</i>
IMT	Indurated Mudstone/Tuff
LGA	Local Government Area
m	Metric metres
NPW Act	<i>National Parks and Wildlife Act 1974 (NSW)</i>
NPW Regulation	National Parks and Wildlife Regulation 2019
PAD	Potential Archaeological Deposit
PVC	Polyvinyl chloride
SCP	Spatial Collaboration Portal for delivery of NSW spatial datasets provided by DCS Spatial Services

Version Control

Version	Revision Description	Reviewed by	Date	Approved by	Date Approved
1	Draft	Jenna Weston, Heritage Now Principal Heritage Consultant	14/11/2024	Tessa Boer-Mah, Heritage Now Principal Heritage Consultant	15/11/2024
1	Final	Jenna Weston, Heritage Now Principal Heritage Consultant	21/11/2024	Tessa Boer-Mah, Heritage Now Principal Heritage Consultant	21/11/2024

Contents

1	Introduction	1
1.1	Project Area	1
1.2	Legislative Context.....	2
1.2.1	National Parks and Wildlife Act 1974 (NSW)	2
1.2.2	Environmental Planning and Assessment Act 1979 (NSW).....	3
1.3	Methodology	4
1.4	Authorship and Acknowledgements	4
2	Environmental and Heritage Context	5
2.1	Environmental Context.....	5
2.1.1	Topography, Geology and Soils.....	5
2.1.2	Hydrology	6
2.1.3	Vegetation.....	7
2.1.4	Past Land-Use.....	7
2.2	Heritage Context.....	12
2.2.1	Archaeological Background.....	12
2.2.2	Aboriginal Heritage Information Management System (AHIMS).....	14
2.3	Synthesis.....	18
3	Visual Inspection	19
3.1	Results	19
3.1.1	Aboriginal Sites Identified	20
3.2	Summary.....	21
4	Conclusions and Recommendations.....	22
4.1	Proposed Activity.....	22
4.2	Conclusions.....	22
4.3	Recommendations.....	23
5	References	24
6	Plates.....	25
	Attachment 1 AHIMS Search.....	A

Tables

Table 1. Summary of previously recorded Aboriginal sites on AHIMS.	15
---	----

Figures

Figure 1. The Project Area in a regional context. (Source: SCP with Heritage Now additions)	1
Figure 2. The Project Area. (Source: SCP with Heritage Now additions)	2
Figure 3. Sites and PADs identified by MDCA (2010). The approximate location of the Project Area is shown in red. (Source: MDCA 2010:Figure 60 with Heritage Now additions).....	4
Figure 4. Soil landscapes and topography of the Project Area. (Source: Soil Landscapes of Central and Eastern NSW © DPE 2013 and Cadastral, Topographic, Aerial data © SCP 2020 with Heritage Now additions)	6
Figure 5. Hydrology of the Project Area. (Source: Hydrology data © SCP 2020 SCP with Heritage Now additions)	7
Figure 6. The Project Area in 1960. (Source: Historical Imagery Viewer, 16/03/196, Image Tile: 1192_5S_094)	9
Figure 7. The Project Area in 1974. (Source: Historical Imagery Viewer, 27/05/1975, Image Tile: 2314_04_054)	9
Figure 8. The Project Area in 1990. (Source: Historical Imagery Viewer, 04/02/1991, Image Tile: 3777_06_076)	10
Figure 9. The Project Area in December 2009. (Source: Google Earth Pro, Imagery © 2024 Airbus)..	10
Figure 10. The Project Area in November 2024. (Source: Google Earth Pro, Imagery © 2024 Airbus)	11
Figure 11. AHIMS search results. (Source: Imagery © SCP 2020 with Heritage Now and AHIMS additions)	16
Figure 12. Location of AHIMS 37-6-2221, which differs from the plotted location in AHIMS. (Source: AHIMS 37-6-2221 Site Card)	18
Figure 13. Location of ST LN AFT-01 within the Project Area. (Source: Imagery © SCP 2020 with Heritage Now and AHIMS additions)	20
Figure 14. Proposed development. (Source: Mavid Development)	22

Plates

Plate 1. Number 1 Station Lane, facing east. (Source: Heritage Now 2024)	25
Plate 2. Number 3 Station Lane, facing south-west. (Source: Heritage Now 2024)	25
Plate 3. Number 3 Station Lane, facing west. (Source: Heritage Now 2024)	26
Plate 4. Number 3 Station Lane, facing north-east. (Source: Heritage Now 2024)	26
Plate 5. Number 5 Station Lane, facing south-west. (Source: Heritage Now 2024)	27
Plate 6. Number 5 Station lane, facing east. (Source: Heritage Now 2024)	27
Plate 7. Number 5 Station Lane, facing north-east. (Source: Heritage Now 2024)	28
Plate 8. STN LN AFT-01 proximal flake. (Source: Heritage Now 2024)	28
Plate 9. Location of STN LN AFT-01, facing north. (Source: Heritage Now 2024).....	29

1 Introduction

Heritage Now Pty Ltd (Heritage Now) was engaged by Mavid Development to prepare an Aboriginal Heritage Due Diligence report for a Development Application addressing proposed child care centre development works at 1-5 Station Lane, Lochinvar.

The aim of the Due Diligence report is to assess the likelihood of Aboriginal objects being harmed by the proposed activity, whether further investigation is warranted, and whether the activity requires an Aboriginal Heritage Impact Permit (AHIP) application (DECCW 2010:2).

1.1 Project Area

The Project Area is located at 1, 3 and 5 Station Lane, Lochinvar, in the Maitland Local Government Area (LGA) (Figure 1). It comprises Lots 1, 2, and 3 DP516963, Parish of Gosforth, County of Northumberland, and lies within the boundaries of Mindaribba Local Aboriginal Land Council.

The Project Area is bounded by the New England Highway on the north, Station Lane on the east, 7 Station Lane to the south and Lochinvar Creek to the west (Figure 2).

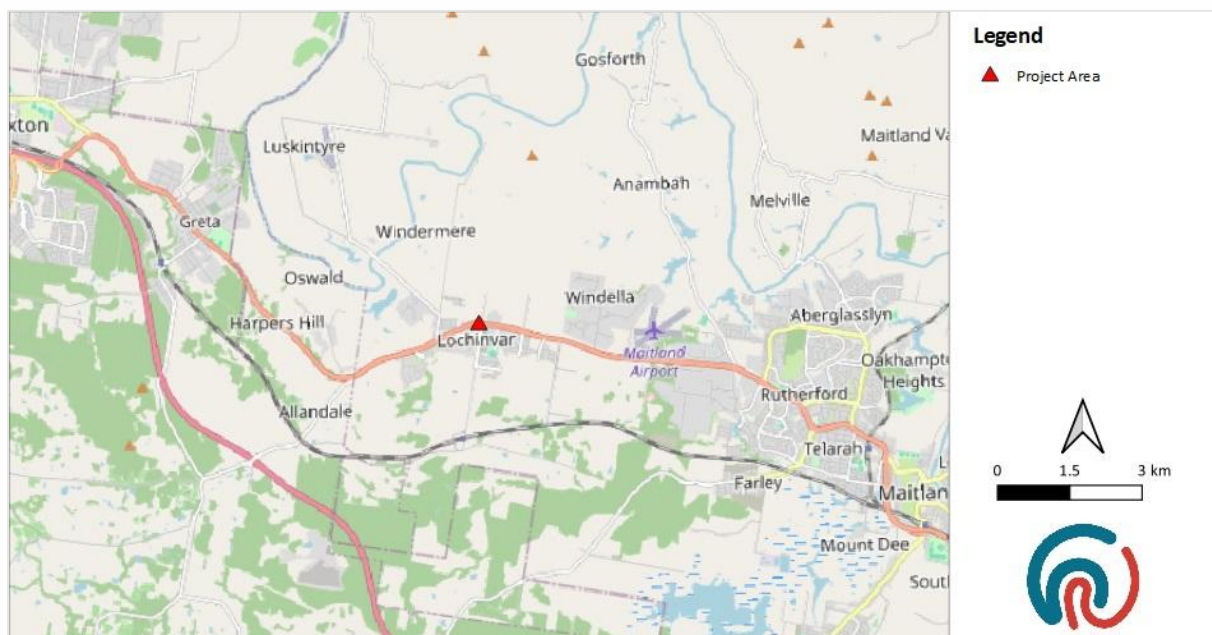


Figure 1. The Project Area in a regional context. (Source: SCP with Heritage Now additions)



Figure 2. The Project Area. (Source: SCP with Heritage Now additions)

1.2 Legislative Context

This section provides an outline of the legislative and environmental planning context under which this assessment was undertaken at the time of reporting. It is for information purposes only and should not be taken as legal advice.

1.2.1 National Parks and Wildlife Act 1974 (NSW)

The *National Parks and Wildlife Act 1974* (NPW Act) contains provisions for protecting Aboriginal objects and declared Aboriginal places in NSW. An Aboriginal object is defined as:

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

An Aboriginal place is an area of land that “is or was of special significance with respect to Aboriginal culture”, and is recognised by a declaration published in the Government Gazette by the Minister for Environment and Heritage.

Under Section 86 of the NPW Act, it is an offence to harm (destroy, deface or damage) or desecrate an Aboriginal object or an Aboriginal Place. The definition of harm includes moving an object from the land on which it is situated. The NPW Act sets out tiered strict liability offences and penalties for harming or desecrating Aboriginal objects or places.

Under Section 87, there are certain defences to the offence of harm. These include that harm was carried out under an Aboriginal Heritage Impact Permit (AHIP); that due diligence was exercised to determine if an action would harm an Aboriginal object; or that the activity was prescribed as a low impact act in the National Parks and Wildlife Regulation 2019.

The Aboriginal Heritage Information Management System (AHIMS) holds information about Aboriginal sites (Aboriginal objects and declared Aboriginal Places) in NSW. Under Section 89A, the

location of an Aboriginal object must be reported to Heritage NSW within a reasonable time, unless it has previously been identified and a record submitted to AHIMS.

National Parks and Wildlife Regulation 2019

The National Parks and Wildlife Regulation 2019 (NPW Regulation) provides a framework for exercising due diligence and identifies codes of practice to determine whether an activity is likely to cause harm to Aboriginal objects (Section 57), as well as specifically defines certain low impact activities (Section 58). Compliance with the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW 2010) or other industry specific code adopted under the NPW Regulation constitutes a defence against prosecution if an Aboriginal object is unknowingly harmed without an Aboriginal Heritage Impact Permit.

The NPW Regulation also outlines requirements for Aboriginal consultation (Section 60), and matters to be dealt with in an Aboriginal cultural heritage assessment report (Section 61), to be submitted with an Aboriginal Heritage Impact Permit application.

1.2.2 Environmental Planning and Assessment Act 1979 (NSW)

The *Environmental Planning and Assessment Act 1979* (EP&A Act) provides triggers for undertaking environmental and heritage assessments as part of the wider land-use planning framework. Part 4 details how authorities are to determine development applications, as well as identifying whether projects require an Environmental Impact Statement. Part 9 outlines the implementation and enforcement of the EP&A Act.

The EP&A Act also allows for the making of environmental planning instruments: State environmental planning policies (SEPPs) that deal with matters of state or regional planning significance, and local environmental plans (LEPs) for the purpose of planning within a local government area.

Maitland Local Environmental Plan 2011

The Maitland Local Environmental Plan 2011 (2011 LEP) requires development consent to demolish, disturb, excavate or develop land on which an Aboriginal object is located or that is within an Aboriginal place of significance. The consent authority must consider the effect of a proposal on an Aboriginal place of significance and any Aboriginal object located within an area of works. Council must inform the local Aboriginal community about the application where impacts to Aboriginal cultural heritage may occur. Heritage items are listed on the LEP in Schedule 5, and can include a building, work, place, relic, tree, object or archaeological site.

There are no Aboriginal objects or places of significance within the Project Area listed on Schedule 5 of the LEP.

Maitland Development Control Plan 2011

The Maitland Development Control Plan (DCP) 2011 supplements the Maitland LEP and contains more detailed provisions to guide development. Part F.9, Section 1.2 (f.27-28) sets out general provisions in relation to Aboriginal heritage in the Lochinvar Urban Release Area (which includes the Project Area). It requires Development Applications to be supported by appropriate Aboriginal Heritage Impact Studies (AHIS). The AHIS should refer to the recommendations made in the *Aboriginal Heritage Assessment and Management Plan* by Mary Dallas Consulting Archaeologists (MDCA) (2010), and specifically to the Potential Archaeological Deposits (PADs) the Management Plan has identified. Salvage, collection or test excavation may be required in these areas.

This report fulfills this requirement for an AHIS. None of the sites or PADs identified by MDCA (2010) are located within the Project Area or its vicinity (Figure 3).



Figure 3. Sites and PADs identified by MDCA (2010). The approximate location of the Project Area is shown in red. (Source: MDCA 2010:Figure 60 with Heritage Now additions).

1.3 Methodology

This assessment was prepared in accordance with the due diligence process outlined in the *Due Diligence Code of Practice for the Protection of Aboriginal Objects in NSW* (DECCW 2010:10).

1.4 Authorship and Acknowledgements

This report was produced by the Heritage Now team. The report was written by Kirrily White (Heritage Consultant) and Kylie McDonald (Senior Heritage Consultant), with input from Jacqueline Chua (Heritage Officer). Technical input and quality review was provided by Jenna Weston and Tessa Boer-Mah (Principal Heritage Consultants).

Heritage Now Pty Ltd retains the copyright of this report.

2 Environmental and Heritage Context

2.1 Environmental Context

This section provides the environmental context for the assessment of past Aboriginal occupation in the Project Area, focussing on whether there are any landscape features likely to indicate the presence of Aboriginal objects. Particular landscape features identified in the Due Diligence Code of Practice include areas of undisturbed land:

- within 200m of waters, or
- located within a sand dune system, or
- located on a ridge top, ridge line or headland, or
- located within 200m below or above a cliff face, or
- within 20m of or in a cave, rock shelter, or a cave mouth (DECCW 2010:12).

2.1.1 Topography, Geology and Soils

The Project Area is located within the Hunter subregion of the Sydney Basin bioregion on the central east coast of NSW. Landforms in the Hunter subregion are characterised by rolling hills, wide valleys, and a river system that meanders through a wide flood plain. The Project Area is located on the gentle western slope of a broad ridge above Lochinvar Creek.

Geological mapping indicates that the Project Area is located within the Lochinvar Formation of the Dalwood Group consisting of basalt, siltstone, and sandstone (Hawley et al. 1994). This lithographic unit is an anticline or dome, which thrust lithics (which form the lower strata of the Sydney basin in the western zone of the New England Orogen) towards the surface. Some sandstone outcropping can occur, although none is known to occur within the Project Area. This lithographic formation lies above carboniferous deposits which were laid down before the Early Permian (Branagan and Packham 2000:166–167).

The erosional Lochinvar soil landscape overlies the geology (Figure 4). This is generally characterised by the undulating rises around Lochinvar village (Kovac and Lawrie 1991:260). This landscape is expected to comprise up to 40cm of dark brown, silty clay loam (A Horizon), overlying clay (B Horizon) (Kovac and Lawrie 1991:260–261). Therefore, depending on past land use and levels of disturbance, up to 40cm of topsoil may be expected across the Project Area.

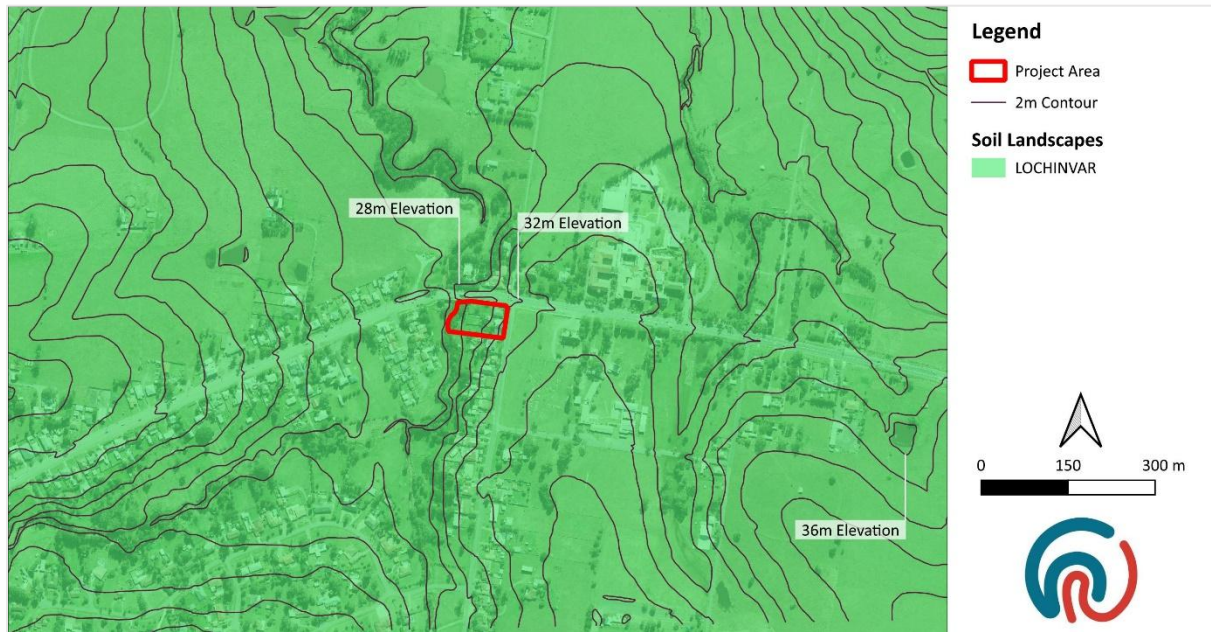


Figure 4. Soil landscapes and topography of the Project Area. (Source: Soil Landscapes of Central and Eastern NSW © DPE 2013 and Cadastral, Topographic, Aerial data © SCP 2020 with Heritage Now additions)

2.1.2 Hydrology

Access to fresh water is known as a primary consideration for Aboriginal people when selecting camp site locations. The sensitivity of waterways for Aboriginal campsites is also reflected in the Due Diligence Code of Practice, which considers areas within 200m of waters archaeologically sensitive (DECCW 2010:12).

The Project Area is positioned in the Hunter River water catchment area and abuts a 4th order (but currently non-perennial) stream, which forms part of Lochinvar Creek and flows into the Hunter River approximately 3km to the north (Figure 5). The stream is freshwater, and given the level terrain and proximity (within 200m), the Project Area is considered archaeologically sensitive. Other sites in the broader area have occurred in similar environments (see discussion in Section 2.2 below), where the adjacent stream is currently non-perennial; although artefact density has generally been low.



Figure 5. Hydrology of the Project Area. (Source: Hydrology data © SCP 2020 SCP with Heritage Now additions)

2.1.3 Vegetation

This section is intended to give a general overview of the flora and fauna that may have been used by Aboriginal people in the past. The information is supplied for understanding the past Aboriginal use of the landscape and is not intended for ecological assessment purposes.

Past Aboriginal people may have encountered vegetation similar to Hunter-Macleay Dry Sclerophyll Forests in the Project Area. This vegetation class contains tall eucalypts such as spotted gum and narrow-leaved ironbark, with a layered understorey of small trees and bushes such as coffee bush, gorse bitter pea, large mock-olive, narrow-leaved geebung, and ferns and grasses like poison rock fern, wiry panic and kangaroo grass.

Many of the plant species of the forest may have been used by Aboriginal people. The fruits of plants such as the geebung and coffee bush are edible, as is the gum (kino) of the spotted gum which, when mixed in a drinking solution, could assist with bladder infections. The nectar of spotted gum flowers could be used as a sweetener (Caton and Hardwick 2018:249). The cooked leaves of the poison rock fern could be used to treat parasitic infections and intestinal worms, and the leaves could also be made into a poultice for treating eczema and ringworm (Caton and Hardwick 2018:311). The timbers of eucalypts could be used to create tools, vessels and canoes (Brayshaw 1987).

The forest also provided habitat for possums, bandicoots, wallabies and other fauna which were attracted to ripe fruits on the ground (Caton and Hardwick 2018:267), and the protection and food resources offered by the canopy and undergrowth. These faunae could have provided a source of food, and their hides could have been used as a resource to make clothing and tool components.

2.1.4 Past Land-Use

Land is considered disturbed if it has been the subject of human activity that has changed the land's surface, being changes that remain clear and observable. Examples include ploughing, construction

of rural infrastructure, roads, trails and tracks, vegetation clearance, construction of buildings, structures and utilities and other impacts involving earthworks (DECCW 2010:18).

A 1960 aerial photograph (Figure 6) shows that the land within the Project Area has been completely cleared of mature vegetation, including along the creek line, and a building has been constructed in the centre. By 1974 (Figure 7), that structure appears to have been removed, and parallel buildings sit on each of the three lots facing Station Lane. There is no significant vegetation on the creek line. In 1990, the aerial photograph (Figure 8) shows further domestic development of the backyard of Lot 2, and there is a mature tree in the backyard of Lot 1, near the boundary with Lot 2. Trees are growing along the creek line in Lots 2 and 3, and there is some low bushy vegetation in the backyard of Lot 3.

By 2009 (Figure 9), there is extensive vegetation along the creek line and within the backyard of Lot 3. Strong suburban fencing has been erected between the lots, and there is a pond or dam in the backyard of Lot 2. A driveway has been cut into Lot 1 from the New England Highway. Patches of disturbed terrain occur across all of the lots. In Lot 1, there is a square garden bed and some other disturbed terrain near the boundary with Lot 2. On the northern side of Lot 2, there appears to be an informal vehicle track into the backyard from the street, and another patch of vehicular worn terrain at the front, on the southern boundary. In Lot 3, worn patches of ground appear next to the trees on the boundary with Lot 2, and on the southern boundary towards the creek.

A satellite image from 2024 (Figure 10) shows that heavy vegetation has been retained along the creek line of all three lots, and the backyards are grassed with fewer trees, except near the houses. One of the shed structures in the backyard of Lot 2 has been replaced with a larger building, and another building has been constructed in the backyard of Lot 3. There remains ground disturbance in the backyard of Lot 3, along its boundary with Lot 2. The dam visible in 2009 is not visible in the 2024 satellite image, but it may be obscured by trees.

Based on this background information, the Project Area is considered to be disturbed land, with low potential for intact archaeological deposits to be present. The degree of disturbance was further examined during the visual inspection (Section 3).



Figure 6. The Project Area in 1960. (Source: Historical Imagery Viewer, 16/03/196, Image Tile: 1192_5S_094)



Figure 7. The Project Area in 1974. (Source: Historical Imagery Viewer, 27/05/1975, Image Tile: 2314_04_054)



Figure 8. The Project Area in 1990. (Source: Historical Imagery Viewer, 04/02/1991, Image Tile: 3777_06_076)



Figure 9. The Project Area in December 2009. (Source: Google Earth Pro, Imagery © 2024 Airbus)



Figure 10. The Project Area in November 2024. (Source: Google Earth Pro, Imagery © 2024 Airbus)

2.2 Heritage Context

This section outlines the Aboriginal heritage context of the Project Area to provide an understanding of the extent, nature and location of known Aboriginal sites, previous investigations that have been undertaken and the implications for Aboriginal site patterning.

2.2.1 Archaeological Background

Australia and New Guinea were connected as a single continental landmass called Sahul and have been occupied by humans for at least 65,000 years (Clarkson et al. 2017). The east coast of NSW has been occupied from at least 50,000 years ago (Williams et al. 2017).

The earliest archaeological evidence of occupation from within the Hunter Valley is dated to 69,000 BCE \pm 4,000 years (Williams and Ulm 2014), but most sites identified in the Hunter Valley region date to less than 10,000 years ago (Mary Dallas Consulting Archaeologists 2010:29). Closer to the Project Area, a date of 2,820 \pm 50 years BP was recorded for charcoal recovered from open site Pokolbin 4, c.17km south-west of the Project Area (Williams and Ulm 2014).

Heritage Now (2024) 17 Cantwell Road, Lochinvar

A pedestrian survey of 17 Cantwell Road, Lochinvar, 240m north of the current Project Area identified 11 artefacts within 50m of Lochinvar Creek, on a creek terrace landform. The artefacts consisted of IMT and silcrete flakes, cores and possible tools. Two pieces of black glass identified near Artefacts 1 and 2 were thought to potentially be Aboriginal artefacts, although further analysis would be required to confirm if this was the case. The creek terrace was considered to be an area of PAD (Cantwell Road AFT-01).

As the majority of the identified artefacts and PAD were within the planned no-build zone, it was recommended that the site be fenced off before ground disturbing works commence. It was also recommended that the proposed landscaping plans be modified to avoid the area in which artefact 11 was identified; if the plans were unable to be modified, then an AHIP would be needed (Heritage Now 2024).

McCardle Cultural Heritage (2023) Lochinvar Residential Subdivision

A pedestrian survey was undertaken of cleared sloping terrain at the corner of the New England Highway and Windella Road at Lochinvar, approximately 600m east of the current Project Area. There was a 2nd order creek in the southern part of the study area near the highway, but the rest of the area was sloping terrain with a drainage depression in the north, crossed by dry streamlines running north-east to south-west. A PAD with surface artefacts (AHIMS 37-6-2228) had been identified in the north of the study area in a previous investigation by Insite Heritage (see below). The study area was divided into two survey units based on landform: creek lines (survey unit 2), and the north-east to south-west slope (survey unit 1). Some of the artefacts associated with the PAD were found in survey unit 2, but it had been heavily disturbed, and the locations were assessed as being of low scientific significance.

Based on background research, a predictive model was developed for the appearance of artefacts across the broader area, based on stream order (Strahler) and proximity to water. In principle, the higher the stream order, the higher density and wider the distribution of artefacts might be, with most high-density sites located within 50m of reliable freshwater, on elevated terrain (McCardle Cultural Heritage Pty Ltd 2023:47). It was predicted that 1st order streams (ephemeral water sources)

would be associated with background scatter; 2nd order streams would be associated with one off, localised behaviour; 3rd order streams would be associated with repeated occupation or intensive activity; and 4th and 5th order streams would be associated with extensive and complex sites reflecting concentrated activity. It was also predicted that sites near a confluence of any order of stream may have higher densities and distributions of artefacts (McCardle Cultural Heritage Pty Ltd 2023:31).

No artefacts or archaeological sites were found in the study area besides the previously identified locations associated with AHIMS 37-6-2228.

Heritage Now (2022) 137 Station Lane, Lochinvar

Archaeological test excavations were undertaken at 137 Station Lane, Lochinvar, approximately 1.37km south of the Project Area. Six 50cm x 50cm test pits were excavated across the property (within 50-100m of a 3rd order, but non-perennial stream, similar to the current Project Area), five of which were within PAD HN-SL-PAD01. One subsurface artefact (an IMT backed artefact) was identified in spit 1 of test pit 1. Although this was a subsurface find, the surrounding soils suggested that the area of the PAD was previously a swampland/marshland, which had since been drained. The artefact was likely to represent activities from a hunting trip, and it was not considered likely that any stratified sites relating to camping would be present across the rest of the PAD area. As a result, the site was updated on AHIMS as *not* a PAD, but the location of the artefact was registered as an artefact site (HN-SL-A08) (Heritage Now 2022).

Insite Heritage (2010) Aboriginal Archaeological Assessment: Proposed Age Care Facility, Lochinvar

A survey of c.17ha of undulating terrain crossed by Lochinvar Creek and several tributaries, approximately 300m east of the Project Area, identified four locations of archaeological material, with 16 artefacts in total. This included an isolated artefact located in an area of exposure of 30m x 30m (Loci 1), three artefacts located on a basal slope in a 50m x 2m trench (Loci 2), seven artefacts located at a confluence within an exposed area of 40 x 15m (Loci 3), and five artefacts located on a mid-slope on a dam. It was assessed that the surface scatters and the basal slopes adjacent to Lochinvar Creek formed one site (AHIMS 37-6-2228) and constituted an area of Potential Archaeological Deposit (PAD). Subsurface investigation of the PAD was recommended prior to the commencement of works, as well as community collection of the surface artefacts (Insite Heritage 2010).

Mary Dallas Consulting Archaeologists (MDCA) (2010) Aboriginal Heritage Assessment and Management Plan: Portions of the Lochinvar Urban Release Area

An Aboriginal Heritage Assessment was undertaken for portions of the Lochinvar Urban Release Area, comprising five study areas (A-E) totalling 238ha. Of most relevance to the Project Area were study areas A (570m to the north-west of the Project Area) and B (130m to the north-east of the Project Area).

Survey Area A was on a terrace landform approximately 8.5ha in area, with a 3% slope abutting the main channel of Lochinvar Creek to the east, with a steep 3-4m drop. It had a minor drainage line on the southern boundary, which flowed into Lochinvar Creek. The researchers considered a flat area between evidence of cultivation and the creek to have been suitable for camping, and defined a part of it with some original topsoil an area of Potential Archaeological Deposit (PAD). No artefacts were identified in Survey Area A.

Survey Area B, approximately 37ha in area, was more undulating, and was crossed by two minor tributaries of Lochinvar Creek from the south and south-west, which converged in the west and the northern section; further, a mid to lower slope of a minor hill was crossed by two minor drainage lines flowing south. Much of the south-west had been heavily disturbed by the construction of a convent, school and facilities, and the creek confluence was likewise heavily disturbed. Two artefact scatters, Loci L2 and Loci L3, which had been previously identified by Insite Heritage (2010) were found again, but in disturbed contexts. The north had also been heavily disturbed and the terrain was uneven, with a loss of topsoil and exposed bedrock. Another small scatter of artefacts (Loci L4), which had been previously identified was found in a dam on one of the minor drainage lines from the north, but another, Loci L1, was not found. No further artefacts were found, and it was assessed that there was no remaining significant or substantial undisturbed potential artefact bearing deposits (Mary Dallas Consulting Archaeologists 2010:56).

MDCA's study concluded that unknown Aboriginal sites within the study area were likely to consist of low density, surface and subsurface artefact sites, indicative of small/temporary camp sites, which would be concentrated along creek lines, typically within 100m of the creek; particularly along the section of Lochinvar Creek near St Helena, and along Stony Creek near West Rutherford (Mary Dallas Consulting Archaeologists 2010).

Perry (2000) AGL Gas Main Extension from Rutherford to Singleton

An archaeological survey was undertaken for a proposed gas main from Kyle Street, Rutherford, to Orchard Avenue, Singleton. The gas main passes adjacent to the current Project Area, along the road easement of the New England Highway. The pedestrian and vehicle survey encountered poor visibility due to dense vegetation, and found that much of the area had been disturbed by road maintenance. Nevertheless, four stone artefact sites were identified at Greta and within the Belford National Park, comprising a total of nine silcrete and mudstone flaked artefacts, including a core and a backed blade. It was recommended that a Consent to Destroy permit be obtained, with the artefacts to be collected prior to construction works (Perry 2000). No artefacts were found near the current Project Area.

2.2.2 Aboriginal Heritage Information Management System (AHIMS)

Aboriginal sites recorded in NSW are registered with geographic co-ordinates in the Aboriginal Heritage Information Management System (AHIMS) and are protected under the *National Parks and Wildlife Act 1974*. Data in AHIMS can provide information on Aboriginal site patterning, as well as showing if Aboriginal sites occur in the Project Area.

An extensive search of AHIMS was undertaken on 4 November 2024 using coordinates GDA, Zone 56, Eastings 352100 to 358100 and Northings 6377991 to 6383991 (Attachment 1). The search produced a result of 107 sites (Figure 11), of which 2 are within 200m of the Project Area. Of these, 26 sites have been destroyed, 3 have been partially destroyed, and 4 have been classified as not archaeological sites.

Almost 90% of the total number of sites contain stone artefacts, which often dominate the archaeological record because they are preserved well in comparison to other materials such as bone implements, clothing, ornamentation, medicinal supplies, woven goods, and wooden weapons used by Aboriginal people. Potential archaeological deposits (PADs) and an Aboriginal ceremony and dreaming site were also recorded in the region (Table 1). The ceremony and dreaming site is 3.5km north-east of the Project Area, on a north-east facing spur. An area of PAD associated with artefacts,

lies 240m to the north, on the same side of Lochinvar Creek as the Project Area (see Heritage Now 2024 summary above).

Table 1. Summary of previously recorded Aboriginal sites on AHIMS.

Context	Site Feature	Count	Per cent
Open Sites	Artefact	89	83.18%
	PAD	11	10.28%
	Artefact + PAD	5	4.67%
	Aboriginal Ceremony and Dreaming + Artefact	1	0.93%
Total Open Sites		106	99.07%
Closed Site	Artefact	1	0.93%
Total Closed Site		1	0.93%
Grand Total		107	100%

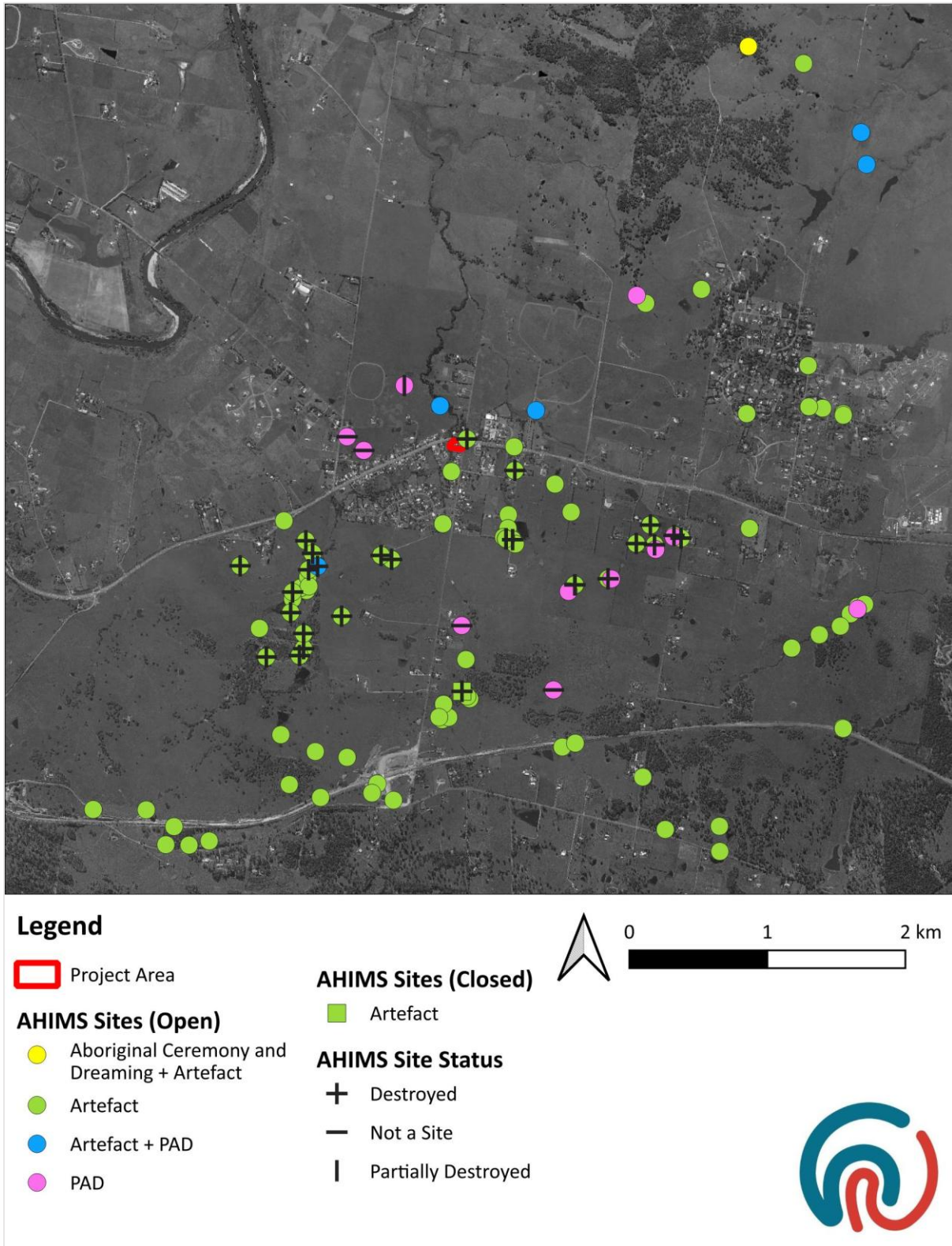


Figure 11. AHIMS search results. (Source: Imagery © SCP 2020 with Heritage Now and AHIMS additions)



Registered AHIMS sites within 200m of the Project Area are shown in Figure 6. The sites AHIMS 37-6-3654 and AHIMS 37-6-2221 are particularly relevant to this Project due to their proximity. Details from the relevant AHIMS site cards are outlined below:

AHIMS 37-6-3654 (Cantwell Rd 1)

The isolated artefact was recorded in 2016, in a gravel exposure on the verge of the New England Highway 30m north-east of the Project Area, next to the intersection with Cantwell Road. It was a broken mudstone backed artefact. The site card notes that the area was highly disturbed due to road works and maintenance of the adjacent powerline and grassed verge.

AHIMS 37-6-2221 (Station Lane OC1)

This open artefact site was recorded in 2009 on the eastern side of Station Lane, 15m east of the current Project Area on a grassed section between the road and a paddock fence, approximately 20m south of the New England Highway. A total of six stone artefacts were identified in a 2m area, including a quartzite core, fine-grained siliceous flaked pieces and silcrete flakes; however, there was no subsurface potential identified, due to the level of disturbance. Based on the map and location description provided in the site card, the coordinates for the site in the AHIMS database are inaccurate (Figure 12).



Figure 12. Location of AHIMS 37-6-2221, which differs from the plotted location in AHIMS. (Source: AHIMS 37-6-2221 Site Card)

2.3 Synthesis

The heritage context and environmental context of the Project Area indicates that the most likely site types to occur in the Project Area are artefacts and/or PADs. A search of the AHIMS database indicates that artefacts have been found within 30m of the Project Area, and there is an area of PAD associated with an artefact scatter on the same side of Lochinvar Creek, 240m to the north of the Project Area.

The Project Area sits on gently sloping terrain above Lochinvar Creek, which flows north into the Hunter River. From previous studies, particularly those of McCardle Cultural Heritage (2023), Heritage Now (2024) and Insite Heritage (2010), artefact and PAD sites in this region are most likely to occur within 50m of a stream of 3rd order or more, which describes Lochinvar Creek adjacent to the Project Area; however, the part of the Project Area within 50m of the creek appears to be low-lying and flood-prone. The land-use analysis suggests that the ground within the Project Area has been subject to disturbance from land clearance and the construction of buildings and associated services (including water, sewer, telecommunications and electricity), accessways and landscaping, particularly near the front of the property, adjacent to Station Lane.

3 Visual Inspection

A visual inspection of the Project Area was undertaken on 11 November 2024 by Kylie McDonald (Heritage Now) and Jason Brown (Mindaribba Local Aboriginal Land Council). The purpose of the inspection was to identify material evidence for Aboriginal occupation on the surface, as well as provide an assessment of archaeological potential – the non-visible material traces or evidence of Aboriginal land use which have a likelihood of being present under the ground surface (DECCW 2010:12).

3.1 Results

The Project Area comprises three residential properties. The residential structures are slightly set back from Station Lane, with secondary structures (sheds) at the rear. All of the properties have been completely cleared of mature trees (except along the property boundaries at the rear) and are thickly grassed. A PVC rising main was noted at the rear of both 3 and 5 Station Lane, and is presumed to continue into 1 Station Lane. Each property is described below.

Number 1 Station Lane has been cleared of mature trees (Plate 1), except at the rear of the property along Lochinvar Creek. It is thickly grassed, and ground exposure was limited to a short track under the tree line. Cars are present along the fence lines. The property is flat to the rear and rises on a steady gradient to Station Lane. The front of the property appears to have been partially raised and levelled to accommodate the house. The house is a two-storey structure on a concrete slab, with the dwelling sitting above a double garage. There is a small, fenced yard on Station Lane, which would not be accessed during the site inspection. The level of disturbance within the footprint of the house could not be determined.

Number 3 Station Lane is flat to the rear and rises on a steady gradient to Station Lane, where the landform levels out. The property contains a single storey fibro structure which appears to sit on piers and a concrete slab. The front of the property (Plate 2) is grassed, with some small exposures which exhibited a fine clay loam with small rounded to sub-angular gravels. The rear of the property could not be accessed due to the presence of dogs; however, it was inspected from 1 and 5 Station Lane (Plate 3, Plate 4). The rear yard contains an unidentified structure and a three-car garage with annexe on the north side, both of which appear to be built on slab. Some paving is present around the house. The yard has been cleared of vegetation, except mature trees near to the boundary with Lochinvar Creek. Ground exposures were limited to an area under a Bunyah pine and along the Colorbond fence. The level of disturbance within the footprint of the structures could not be determined.

Number 5 Station Lane (Plate 5) is flat to the rear and rises on a steady gradient to Station Lane, where the landform levels out. The property consists of a single-storey brick structure (Plate 6) with a rear timber veranda set back from the road. The house appears to be set on brick and timber piers. A double garage set on a concrete slab and a small plunge pool sits on the southern side of the property, behind the house. A recent concrete driveway extends from the road corridor, on a shallow gradient to the double garage at the rear of the property. The drive levels out and connects to the concrete slab upon which the shed sits. The slab and drive at this point are approximately 50cm high. The grassed area at the rear of the property has been slightly built up to access the slab (Plate 7).

The Project Area is located within 200m of a watercourse and is therefore considered to be within an archaeologically sensitive landform. In particular, the front of the Project Area, fronting Station Lane, sits on a nearly level mid-slope/terrace, which very gradually rises to the south-east. This area is located approximately 90m east of Lochinvar Creek, and is sufficiently high enough to be protected from seasonal flooding. However, this area has been disturbed by the construction of buildings and associated services (including water, sewer, telecommunications and electricity), accessways and landscaping. Further, excavation of a similar landform, within 50-100m of a similar order (and non-perennial) stream at 137 Station Lane, found only one artefact in six test pits, in an area of much less disturbance. As such, archaeological potential within the Project Area is assessed to be low.

3.1.1 Aboriginal Sites Identified

An isolated artefact was identified in the Project Area, on the low-lying flood-prone land immediately next to Lochinvar Creek. Details are listed below and shown in Figure 13.

ST LN AFT-01

ST LN AFT-01 consists of a single artefact located in an exposed area on the flat at the rear of 5 Station Lane (Plate 8, Plate 9, Figure 13). A fence has recently been installed in this area, and the fragment may have been upcast during installation of the concrete post bases. Given the low-lying, flood-prone location, it is unlikely that this artefact is the result of past Aboriginal camping in this location, but may represent transient use of the area for gathering resources.

ST LN AFT-01	Coordinates: GDA 2020 Zone 56 355057E 6380977N			
Artefact Colour	Raw material	Artefact Type	Completeness	Dimensions (mm)
Red	Silicious	Proximal flake	30%	12 x 13 x 3



Figure 13. Location of ST LN AFT-01 within the Project Area. (Source: Imagery © SCP 2020 with Heritage Now and AHIMS additions)

3.2 Summary

The rear of the Project Area is located on a low flat associated with Lochinvar Creek, and extends on a moderate slope to Station Lane, where the landform levels out. The Project Area has been subject to historical land clearance and the late 20th century construction of residences and outbuildings.

The site inspection identified an isolated artefact in a moderately disturbed context.

4 Conclusions and Recommendations

This section assesses the potential impact of the proposed works in relation to Aboriginal heritage objects in the Project Area.

4.1 Proposed Activity

The proposed activity is a childcare centre with associated services, and includes three main buildings, playgrounds and play areas, and a carpark on the Station Lane street front (Figure 14). The structure will be partially set into the landform on the east, and will sit on piers to the west to accommodate the slope towards Lochinvar Creek. The western portion of the Project Area is within the riparian zone and will not be impacted by the proposed works, apart from piers for the structured playground.



Figure 14. Proposed development. (Source: Mavid Development)

4.2 Conclusions

ST LN AFT-01 is located within the riparian zone and will not be directly impacted by the development; however, it may be inadvertently impacted during construction works.

While the Project Area is located in the vicinity of a third order creek, the construction of the buildings and associated services (including water, sewer, telecommunications and electricity), accessways and landscaping has impacted the potential for intact archaeology to be present, particularly in the eastern part of the Project Area. It is therefore considered that the proposed works will have a low likelihood of causing harm to Aboriginal objects and may proceed subject to the recommendations below.

4.3 Recommendations

Recommendation 1

ST LN AFT-01 is to be cordoned off using temporary fencing prior to the commencement of ground disturbing works. This will prevent any inadvertent impacts to the site.

Recommendation 2

All on-site personnel are to be made aware of their obligations under the *National Parks and Wildlife Act 1974*. This includes protection of Aboriginal sites and the reporting of any new, or suspected, Aboriginal heritage sites. This may be done through an on-site induction or other suitable format.

Recommendation 3

In the unlikely event that Aboriginal, or suspected Aboriginal, archaeological material is uncovered during the development, then works in that area are to stop and the area is to be cordoned off. The Project Manager is to contact the heritage consultant to make an assessment as to whether the material is classed as Aboriginal object/s under the *National Parks and Wildlife Act 1974* and advise on the required management and mitigation measures. Works are not to recommence in the cordoned off area until heritage clearance is given and/or the required management and mitigation measures have been implemented.

Recommendation 4

In the unlikely event that human remains, or suspected human remains, are uncovered during the development, then works in that area are to stop and the area is to be cordoned off. The Project Manager is to contact the NSW Police to establish whether the area is a crime scene. If it is not a crime scene, and the remains are determined to be Aboriginal ancestral remains, then Heritage NSW is to be notified via the Environment Line on 131 555 and management measures are to be devised in consultation with the Aboriginal stakeholders. Works are not to recommence in the area until the management measures have been implemented.

5 References

Branagan D and Packham G (2000) *Field geology of New South Wales*, Department of Mineral Resources, Sydney, N.S.W.

Brayshaw H (1987) *Aborigines of the Hunter Valley*, Scone and Upper Hunter Historical Society, Scone, NSW.

Caton JM and Hardwick RJ (2018) *Field Guide to Useful Native Plants from Temperate Australia*, Harbour Publishing House.

Clarkson C, Jacobs Z, Marwick B, Fullagar R, Wallis LA, Smith M, Roberts R, Hayes E, Lowe K, Carah X, Florin SA, McNeil J and Cox D (2017) 'Human occupation of northern Australia by 65,000 years ago', *Nature*, 547:306–310.

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, NSW.

Hawley SP, Glen RA and Baker CJ (1994) 'Newcastle Coalfield Regional Geology'.

Heritage Now (2022) *Aboriginal Cultural Heritage Assessment, Lochinvar (137 Station Lane)*, Report to Bolwarra Heights Pty Ltd, Redhead, NSW.

— (2024) 'Aboriginal Cultural Heritage Assessment Report: 17 Cantwell Road, Lochinvar'.

Insite Heritage (2010) *Aboriginal Archaeological Assessment: Proposed Aged Care Facility Lochinvar, NSW*, Report to De Witt Consulting, Wangi Wangi, NSW.

Kovac M and Lawrie JW (1991) *Soil Landscapes of the Singleton 1:250 000 Sheet*, Soil Conservation Service of NSW, Sydney.

Mary Dallas Consulting Archaeologists (2010) *Aboriginal Heritage Assessment and Management Plan - Portions of the Lochinvar Urban Release Area, Lochinvar, Hunter Valley, NSW*, Report to Paradigm Planning & Development Consultants on behalf of Stockland Developments.

McCardle Cultural Heritage Pty Ltd (2023) *Lochinvar Residential Subdivision Aboriginal Cultural Heritage Assessment (ACHA)*.

Perry V (2000) *Aboriginal Cultural Heritage Assessment for A.G.L Gas Main Extension from Rutherford to Singleton*, Report to A.G.L, Singleton, NSW.

Williams A and Ulm S (2014) 'AustArch: A Database of 14C and Luminescence Ages from Archaeological Sites in Australia', *Archaeology Data Service*, doi:10.5284/1027216.

Williams AN, Burrow A, Toms PS, Brown O, Richards M and Bryant T (2017) 'The Cranebrook Terrace revisited: recent excavations of an early Holocene alluvial deposit on the banks of the Nepean River, NSW, and their implications for future work in the region', *Australian Archaeology*, 83(3):100–109.

6 Plates



Plate 1. Number 1 Station Lane, facing east. (Source: Heritage Now 2024)



Plate 2. Number 3 Station Lane, facing south-west. (Source: Heritage Now 2024)



Plate 3. Number 3 Station Lane, facing west. (Source: Heritage Now 2024)



Plate 4. Number 3 Station Lane, facing north-east. (Source: Heritage Now 2024)



Plate 5. Number 5 Station Lane, facing south-west. (Source: Heritage Now 2024)



Plate 6. Number 5 Station lane, facing east. (Source: Heritage Now 2024)



Plate 7. Number 5 Station Lane, facing north-east. (Source: Heritage Now 2024)



Plate 8. STN LN AFT-01 proximal flake. (Source: Heritage Now 2024)



Plate 9. Location of STN LN AFT-01, facing north. (Source: Heritage Now 2024)

Attachment 1 AHIMS Search

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-2131	Allandale Rail 19	GDA	56	352466	6378346	Open site	Valid	Artefact : 1		
	Contact	Recorders	South East Archaeology - Hughes ACT					Permits		
37-6-2244	Rutherford Rail 4	GDA	56	357896	6378938	Open site	Valid	Artefact : 1		102231
	Contact	Recorders	Mr.Peter Kuskie					Permits	3658	
37-6-2861	Christopher Road Site 1	GDA	56	355504	6380299	Open site	Destroyed	Artefact : 1		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams,Mr.Giles Har					Permits	3963,4080	
37-6-1123	ISF 2 Rutherford	AGD	56	357200	6381200	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)					Permits		
37-6-1827	East Lochinvar Site 9	GDA	56	356502	6380405	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,					Permits	4482	
37-6-4232	HN-SL-A02	GDA	56	354994	6378996	Open site	Valid	Artefact : -		
	Contact	Recorders	Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)					Permits		
37-6-1423	Lochinvar 47A	GDA	56	353990	6379510	Open site	Destroyed	Artefact : 1		100792
	Contact	Recorders	Mr.Peter Kuskie,MCH - McCardle Cultural Heritage Pty Ltd,Doctor.Penny Mccardle					Permits	2421,3053	
37-6-1431	Lochinvar 22/A	GDA	56	354026	6380081	Open site	Destroyed	Artefact : -		100792,10457 2
	Contact Searle	Recorders	Mrs.Angela Besant,South East Archaeology - Hughes ACT,Insite Heritage Pty Ltd					Permits	2421,3053,4168	
37-6-4424	Cantwell Road AFT-01	GDA	56	354978	6381268	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Heritage Now - Belmont,Ms.Crystal Phillips					Permits		
37-6-2129	Station Lane 2	GDA	56	354524	6378532	Open site	Valid	Artefact : 1		
	Contact	Recorders	South East Archaeology - Hughes ACT					Permits	3286	
37-6-2243	Lochinvar Rail 5	GDA	56	354113	6378433	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.Peter Kuskie					Permits	3658	
37-6-2862	Christopher Road Site 2	GDA	56	355456	6380305	Open site	Partially Destroyed	Artefact : 1		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Kirwan Williams,Mr.Giles Har					Permits	3963,4080	
37-6-3862	St Helena 1	GDA	56	353530	6380110	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mrs.Angela Besant,Mrs.Angela Besant,Insite Heritage Pty Ltd,Insite Heritage Pty Ltd					Permits		
37-6-0122	Lochinvar;Farley;H;	AGD	56	357526	6379503	Open site	Valid	Artefact : -	Open Camp Site	102646
	Contact	Recorders	Len Dyall					Permits		
37-6-2777	Anambah SAC 3	GDA	56	357212	6383869	Open site	Valid	Aboriginal Ceremony and Dreaming : 1, Artefact : 1		
	Contact	Recorders	Doctor.Tim Owen					Permits		
37-6-3561	Anambah SAC 2	GDA	56	357612	6383746	Open site	Valid	Artefact : -		
	Contact	Recorders	Miss.Diana Cowie					Permits		

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-2214	Christopher Road 2	GDA	56	355457	6380305	Open site	Partially Destroyed	Artefact : 6		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Paul Irish,Ms.Mary Dallas,Mr.				Permits	3963		
37-6-0989	Penn Park 1	AGD	56	357220	6380370	Open site	Valid	Artefact : -		4102
	Contact	Recorders	Jim Ring				Permits	2279		
37-6-1054	R-1	AGD	56	357900	6381200	Open site	Valid	Artefact : -		
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)				Permits			
37-6-1835	East Lochinvar Site 1	GDA	56	355811	6380701	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm				Permits	4704		
37-6-1946	Rutherford Employment Area 7 (REA7)	GDA	56	357951	6379762	Open site	Valid	Artefact : 2		101300
	Contact	Recorders	Doctor.Penny Mccardle				Permits			
37-6-2234	Allandale Rail 25	GDA	56	353306	6378118	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.Peter Kuskie				Permits			
37-6-2963	26 Windemere Rd Site 1 (PAD 1)	GDA	56	354426	6380945	Open site	Not a Site	Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Doctor.Penny Mccardle				Permits			
37-6-4191	Airds of lochinvar PAD 3	GDA	56	355909	6379924	Open site	Valid	Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Mr.Giles Hamm				Permits			
33-6-0040	HN-SL-PAD 01	GDA	56	355135	6379677	Open site	Not a Site	Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Heritage Now - Belmont,Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby),Ms				Permits			
37-6-1427	Lochinvar 20/B	GDA	56	353990	6379620	Open site	Destroyed	Artefact : 1		100792
	Contact	Recorders	Mr.Peter Kuskie,MCH - McCardle Cultural Heritage Pty Ltd,Doctor.Penny Mccardle				Permits	2421,3053		
37-6-1429	Lochinvar 21/B	AGD	56	353970	6379940	Open site	Valid	Artefact : 1		100792,10457 2
	Contact	Recorders	Mr.Peter Kuskie				Permits	2421,3053		
37-6-2216	LIF 2	AGD	56	354075	6378754	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.Paul Irish,Ms.Mary Dallas				Permits			
37-6-2220	St Helena OC1	AGD	56	354028	6379951	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.Paul Irish,Ms.Mary Dallas				Permits			
37-6-4247	HN-SL-A08	GDA	56	355135	6379676	Open site	Valid	Artefact : -		
	Contact	Recorders	Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)				Permits			
37-6-4439	Robert Road IF1	GDA	56	355473	6380479	Open site	Valid	Artefact : -		
	Contact	Recorders	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats				Permits			
37-6-4438	Robert Road AS1	GDA	56	355470	6380381	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 04/11/2024 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 352100.0 - 358100.0, Northings : 6377991.0 - 6383991.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 107

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports	
	Contact	Recorders	Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats						Permits		
37-6-4370	Lochinvar ISF2	GDA	56	356872	6382111	Open site	Valid	Artefact : -			
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kiefel						Permits		
37-6-2190	Station Lane 1	GDA	56	354641	6378413	Open site	Valid	Artefact : 1			
	Contact	Recorders	South East Archaeology - Hughes ACT						Permits	3286,3658	
37-6-2132	Allandale Rail 20	GDA	56	352850	6378343	Open site	Valid	Artefact : 1			
	Contact	Recorders	South East Archaeology - Hughes ACT						Permits		
37-6-3810	Lochinvar Water Pump Station 2	GDA	56	353848	6380436	Open site	Valid	Artefact : -			
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Ms.Alison Lamond						Permits		
37-6-0115	Lochinvar;Farley;D;	AGD	56	357005	6378031	Open site	Valid	Artefact : -	Open Camp Site	317,1086,1022 31,102646	
	Contact	Recorders	Len Dyall						Permits	326	
37-6-1824	East Lochinvar Site 6	GDA	56	356724	6380310	Open site	Destroyed	Artefact : -			
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Giles (dup ID#12832) Hamm,						Permits	3963	
37-6-1832	East Lochinvar Site 4	GDA	56	355955	6379972	Open site	Destroyed	Artefact : -			
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,						Permits	4482	
37-6-2235	Allandale Rail 26	GDA	56	353160	6378088	Open site	Valid	Artefact : 1			
	Contact	Recorders	Mr.Peter Kuskie						Permits		
37-6-4233	HN-SL-A05	GDA	56	355193	6379148	Open site	Valid	Artefact : -			
	Contact	Recorders	Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)						Permits		
37-6-2223	LOC1	GDA	56	354091	6380106	Open site	Destroyed	Potential Archaeological Deposit (PAD) : -, Artefact : 11		104572	
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,MCH - McCardle Cultural Heritag						Permits	3963,4168	
37-6-2225	LOC4	GDA	56	354551	6380185	Open site	Destroyed	Artefact : 3			
	Contact	Recorders	MCH - McCardle Cultural Heritage Pty Ltd,Mr.Paul Irish,Doctor.Penny Mccardle,Ms.						Permits	3963	
37-6-3861	St Helena 1F	GDA	56	353670	6379657	Open site	Valid	Artefact : -		104572	
	Contact	Recorders	Mrs.Angela Besant,Insite Heritage Pty Ltd						Permits		
37-6-3864	St Helena 3	GDA	56	354265	6379745	Open site	Destroyed	Artefact : -		104572	
	Contact	Recorders	Mrs.Angela Besant,Mrs.Angela Besant,Insite Heritage Pty Ltd,Insite Heritage Pty Lt						Permits		
37-6-0670	Loch-1 (St Helena)	GDA	56	354006	6380291	Open site	Destroyed	Artefact : -	Isolated Find	2985,100792,1 02646,104572	
	Contact	Recorders	Iain Stuart,Mrs.Angela Besant,Insite Heritage Pty Ltd						Permits	2183,2421,3053,4168	
37-6-1831	East Lochinvar Site 3	GDA	56	355955	6379972	Open site	Destroyed	Artefact : -			
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,						Permits	4482	
37-6-1948	Rutherford Employment Area 9 (REA9)	GDA	56	358005	6379815	Open site	Valid	Artefact : 1		101300	
	Contact	Recorders	Doctor.Penny Mccardle						Permits		

Report generated by AHIMS Web Service on 04/11/2024 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 352100.0 - 358100.0, Northings : 6377991.0 - 6383991.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 107

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-3571	Anambah SAC 14 and PAD 15	GDA	56	358068	6383015	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact							Recorders Miss.Diana Cowie		Permits
37-6-4189	Airds of lochinvar PAD1	GDA	56	356670	6380319	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact							Recorders Archaeological Risk Assessment Services (ARAS),Mr.Giles Hamm		Permits
37-6-4228	HN-SL-A03	GDA	56	355041	6379013	Open site	Valid	Artefact : -		
	Contact							Recorders Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)		Permits
37-6-4229	HN-SL-A04	GDA	56	355004	6379108	Open site	Valid	Artefact : -		
	Contact							Recorders Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)		Permits
37-6-1428	Lochinvar 21/A	AGD	56	354020	6380020	Open site	Valid	Artefact : 1		100792,10457 2
	Contact Searle							Recorders Mr.Peter Kuskie		Permits 2421,3053
37-6-1432	Lochinvar 22/B	AGD	56	353910	6379860	Open site	Valid	Artefact : 3		100792,10457 2
	Contact S Scanlon							Recorders South East Archaeology - Hughes ACT		Permits 2421,3053
37-6-2215	LIF 1	AGD	56	353886	6378515	Open site	Valid	Artefact : 1		
	Contact							Recorders Mr.Paul Irish,Ms.Mary Dallas		Permits
37-6-2221	Station Lane OC1	GDA	56	355061	6380792	Open site	Valid	Artefact : 1		
	Contact							Recorders Mr.Paul Irish,Ms.Mary Dallas		Permits
37-6-4437	Robert Road IF2	GDA	56	355439	6380317	Open site	Valid	Artefact : -		
	Contact							Recorders Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits
37-6-1607	Lochinvar 1	AGD	56	355515	6380960	Open site	Valid	Artefact : 2		99841
	Contact Searle							Recorders Doctor.Penny Mccardle		Permits 2456,3963
37-6-2187	Lochinvar Rail 1	GDA	56	354485	6378465	Open site	Valid	Artefact : 1		
	Contact							Recorders South East Archaeology - Hughes ACT		Permits 3658
37-6-2189	Lochinvar Rail 3	GDA	56	355864	6378798	Open site	Valid	Artefact : 1		
	Contact							Recorders South East Archaeology - Hughes ACT		Permits
37-6-2192	Lochinvar Rail 4	GDA	56	355958	6378826	Open site	Valid	Artefact : 1		102231
	Contact							Recorders South East Archaeology - Hughes ACT		Permits
37-6-2863	Christopher Road Site 3	GDA	56	354999	6380414	Open site	Valid	Artefact : 1		
	Contact							Recorders Mr.Giles Hamm		Permits 3963,4080
37-6-1125	ISF 3 Rutherford	AGD	56	357750	6381240	Open site	Valid	Artefact : 1		
	Contact							Recorders Mary Dallas Consulting Archaeologists (MDCA)		Permits
37-6-1944	Rutherford Employment Area 5 (REA5)	GDA	56	357726	6379611	Open site	Valid	Artefact : 16		101300
	Contact							Recorders Doctor.Penny Mccardle		Permits

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-1945	Rutherford Employment Area 6 (REA6)	GDA	56	357878	6379673	Open site	Valid	Artefact : 4		101300
	Contact	Recorders	Doctor.Penny Mccardle					Permits		
37-6-1949	Rutherford Employment Area 10 (REA10)	GDA	56	358054	6379831	Open site	Valid	Artefact : 3		101300
	Contact	Recorders	Doctor.Penny Mccardle					Permits		
37-6-2228	LCC1 & PAD	GDA	56	355673	6381234	Open site	Valid	Artefact : 15, Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Mrs.Angela Besant,Umwelt (Australia) Pty Limited - Individual users,MCH - McCarc					Permits	3936,3963,4694,4697	
37-6-4227	HN-SL-A01	GDA	56	354971	6379014	Open site	Valid	Artefact : -		
	Contact	Recorders	Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)					Permits		
37-6-4230	HN-SL-A06	GDA	56	355175	6379165	Open site	Valid	Artefact : -		
	Contact	Recorders	Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)					Permits		
37-6-1426	Lochinvar 20/A	GDA	56	353960	6379460	Open site	Destroyed	Artefact : 1		100792
	Contact Searle	Recorders	Mr.Peter Kuskie,MCH - McCardle Cultural Heritage Pty Ltd,Doctor.Penny Mccardle					Permits	2421	
37-6-2218	PAD 1 Lochinvar URA	AGD	56	355800	6379200	Open site	Not a Site	Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders	Mr.Paul Irish,Ms.Mary Dallas,RPS AAP Consulting Pty Ltd - York Street Sydney					Permits		
37-6-2224	LOC3	AGD	56	353825	6378876	Open site	Valid	Artefact : 2		
	Contact	Recorders	Mr.Paul Irish,Ms.Mary Dallas					Permits		
37-6-2191	Station Lane 3	GDA	56	354305	6378723	Open site	Valid	Artefact : 1		
	Contact	Recorders	Doctor.Johan Kamminga					Permits	3286,3658	
37-6-0116	Lochinvar;Farley;A;	AGD	56	357002	6378213	Open site	Valid	Artefact : -	Open Camp Site	317,1086,1022 31,102646
	Contact	Recorders	Len Dyall					Permits	326	
37-6-1828	East Lochinvar Site 10	GDA	56	356400	6380271	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,					Permits	3963,4482	
37-6-1834	East Lochinvar Site 5	GDA	56	356195	6380016	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,					Permits	4482	
37-6-1942	Rutherford Employment Area 3 (REA3)	GDA	56	357899	6378932	Open site	Valid	Artefact : 1		101300,10223 1
	Contact	Recorders	Doctor.Penny Mccardle					Permits		
37-6-1947	Rutherford Employment Area 8 (REA8)	GDA	56	358003	6379797	Open site	Valid	Artefact : 3		101300
	Contact	Recorders	Doctor.Penny Mccardle					Permits		
37-6-4190	Airds of lochinvar PAD 2	GDA	56	356540	6380229	Open site	Valid	Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Mr.Giles Hamm					Permits		

Report generated by AHIMS Web Service on 04/11/2024 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 352100.0 - 358100.0, Northings : 6377991.0 - 6383991.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 107

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-4192	Airds of lochinvar PAD 4	GDA	56	356219	6380015	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Archaeological Risk Assessment Services (ARAS),Mr.Giles Hamm					Permits		
37-6-4231	HN-SL-A07	GDA	56	355166	6379431	Open site	Valid	Artefact : -		
	Contact	Recorders	Heritage Now - Belmont,Ms.Lara Donohoe (nee Tooby)					Permits		
37-6-1425	Lochinvar 10/A	GDA	56	353910	6379920	Open site	Destroyed	Artefact : 1		100792,10457 2
	Contact Searle	Recorders	Mr.Peter Kuskie,Mrs.Angela Besant,Insite Heritage Pty Ltd					Permits	2421,3053,4168	
37-6-2213	Christopher Road 1	GDA	56	355520	6380800	Open site	Destroyed	Artefact : 2		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Mr.Giles (dup ID#12832) Hamm,					Permits	3963	
37-6-2217	LIF3	GDA	56	354627	6380156	Open site	Destroyed	Artefact : 1		
	Contact	Recorders	MCH - McCardle Cultural Heritage Pty Ltd,Mr.Paul Irish,Doctor.Penny Mccardle,Ms.					Permits	3963	
37-6-2219	PAD 2 Lochinvar URA	GDA	56	354720	6381415	Open site	Partially Destroyed	Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders	Niche Environment and Heritage,Mr.Paul Irish,Ms.Mary Dallas,Miss.Kate Morris					Permits	5319	
37-6-2222	LOC2	GDA	56	355137	6379201	Closed site	Destroyed	Artefact : 10		
	Contact	Recorders	Mr.Paul Irish,Ms.Mary Dallas,RPS AAP Consulting Pty Ltd - York Street Sydney ,Mrs					Permits	4482	
37-6-3830	SITE 11 LOT 310 LOCHINVAR	GDA	56	355523	6380268	Open site	Valid	Artefact : 1		104406,10471 5
	Contact	Recorders	Mr.Giles Hamm					Permits	4693	
37-6-4371	Lochinvar PAD 1	GDA	56	356403	6382067	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills,Mr.Jacob (GML) Kiefel					Permits		
37-6-1937	Rutherford Employment Area PAD1	GDA	56	358003	6379797	Open site	Valid	Potential Archaeological Deposit (PAD) : -		101300
	Contact	Recorders	Doctor.Penny Mccardle					Permits		
37-6-1907	R1 (Greta)	GDA	56	357900	6381200	Open site	Valid	Artefact : 4		4119
	Contact	Recorders	Ms.Mary Dallas					Permits		
37-6-2133	Allandale Rail 21	GDA	56	353051	6378222	Open site	Valid	Artefact : 1		
	Contact	Recorders	South East Archaeology - Hughes ACT					Permits	3658	
37-6-3863	St Helena 2	GDA	56	354055	6380200	Open site	Destroyed	Artefact : -		104572
	Contact	Recorders	Mrs.Angela Besant,Mrs.Angela Besant,Insite Heritage Pty Ltd,Insite Heritage Pty Lt					Permits		
37-6-0173	Farley;Farley P&Q;	AGD	56	356447	6378569	Open site	Valid	Artefact : -	Open Camp Site	102231,10264 6
	Contact	Recorders	Len Dyall					Permits		

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status **	SiteFeatures	SiteTypes	Reports
37-6-0117	Lochinvar;Farley;B;	AGD	56	356610	6378190	Open site	Valid	Artefact : -	Open Camp Site	317,1086,1022 31,102646
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)				Permits	326		
37-6-1122	ISF 1 Rutherford	AGD	56	357650	6381250	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mary Dallas Consulting Archaeologists (MDCA)				Permits			
37-6-1825	East Lochinvar Site 7	GDA	56	356673	6380330	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,				Permits	4482		
37-6-1826	East Lochinvar Site 8	GDA	56	356532	6380262	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm,RPS AAP Consulting Pty Ltd - York Street Sydney ,				Permits	3963,4482		
37-6-1830	East Lochinvar Site 2	GDA	56	355928	6380499	Open site	Valid	Artefact : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm				Permits	4704		
37-6-2233	Allandale Rail 24	GDA	56	352992	6378091	Open site	Valid	Artefact : 1		
	Contact	Recorders	Mr.Peter Kuskie				Permits			
37-6-2964	26 Windemere Rd Site 2 (PAD 2)	GDA	56	354305	6381044	Open site	Not a Site	Potential Archaeological Deposit (PAD) :-		
	Contact Mindaribba Local Aboriginal L	Recorders	Archaeological Risk Assessment Services (ARAS),Doctor.Penny Mccardle				Permits			
37-6-3569	Anambah SAC 12	GDA	56	357645	6381559	Open site	Valid	Artefact : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills, Miss.Diana Cowie, Mr.Jacob (GML) Kiefel				Permits			
37-6-3572	Anambah SAC 15 and PAD 16	GDA	56	358028	6383247	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) :-		
	Contact	Recorders	Miss.Diana Cowie				Permits			
37-6-1424	Lochinvar 4/B	GDA	56	353720	6379450	Open site	Destroyed	Artefact : 7		100792
	Contact Searle	Recorders	Mr.Peter Kuskie, MCH - McCardle Cultural Heritage Pty Ltd, Doctor.Penny Mccardle				Permits	2421,3053		
37-6-1430	Lochinvar 21/C	AGD	56	354010	6379920	Open site	Valid	Artefact : -		100792,10457 2
	Contact Searle	Recorders	Mr.Peter Kuskie				Permits	2421,3053		
37-6-1433	Lochinvar 22/C	GDA	56	353896	6379771	Open site	Destroyed	Artefact : 19		100792,10457 2
	Contact S Scanlon	Recorders	Mrs.Angela Besant, South East Archaeology - Hughes ACT, Insite Heritage Pty Ltd				Permits	2421,3053		
37-6-3654	Cantwell Rd 1	GDA	56	355173	6381028	Open site	Destroyed	Artefact : -		
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users, Umwelt (Australia) Pty Limited -				Permits			
37-6-4368	Lochinvar ISF1	GDA	56	356468	6382010	Open site	Valid	Artefact : -		
	Contact	Recorders	GML Heritage Pty Ltd - Surry Hills, Mr.Jacob (GML) Kiefel				Permits			



AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN1260-A

Client Service ID : 946517

<u>SiteID</u>	<u>SiteName</u>	<u>Datum</u>	<u>Zone</u>	<u>Easting</u>	<u>Northing</u>	<u>Context</u>	<u>Site Status **</u>	<u>SiteFeatures</u>	<u>SiteTypes</u>	<u>Reports</u>
---------------	-----------------	--------------	-------------	----------------	-----------------	----------------	-----------------------	---------------------	------------------	----------------

**** Site Status**
Valid - The site has been recorded and accepted onto the system as valid
Destroyed - The site has been completely impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There is nothing left of the site on the ground but proponents should proceed with caution.
Partially Destroyed - The site has been only partially impacted or harmed usually as consequence of permit activity but sometimes also after natural events. There might be parts or sections of the original site still present on the ground
Not a site - The site has been originally entered and accepted onto AHIMS as a valid site but after further investigations it was decided it is NOT an aboriginal site. Impact of this type of site does not require permit but Heritage NSW should be notified

Report generated by AHIMS Web Service on 04/11/2024 for Jacqueline Chua for the following area at Datum :GDA, Zone : 56, Eastings : 352100.0 - 358100.0, Northings : 6377991.0 - 6383991.0 with a Buffer of 0 meters.. Number of Aboriginal sites and Aboriginal objects found is 107

This information is not guaranteed to be free from error omission. Heritage NSW and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.