

Attn:
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Project Number: HN000126-A

2/10/2020

Dear Andrew,

RE: 107 Haussman Drive, Thornton

Introduction

Heritage Now have been engaged by Barr Property and Planning on behalf of the McCloy Group to provide a desktop assessment as an update to a previous site inspection and Aboriginal due diligence assessment¹. This assessment has undertaken an updated AHIMS search and analysis of previous findings.

Project Area

The Project area is located at Lot 2 DP1145348 Haussman Drive, Thornton North. The proposal is to rezone the land, which was previously used as a quarry, for residential use. The less disturbed areas are proposed to be rezoned into an E2 Zone. The impact area is almost identical to the previous impact area with the detention basin, a 200m x 60m portion along the north and the north access way.

AHIMS Search

An updated Aboriginal Heritage Information System (AHIMS) was undertaken on 4 September 2020 from latitude -32.7867 to -32.7501 and longitude 151.6074 to 151.6551. The search produced a result of 116 sites. These sites were plotted based on the coordinates provided in the AHIMS search (Figure 1, Attachment A).

There is one Aboriginal site that was registered in the Project Area, registered as AHIMS #38-4-0399 (there is also a duplicate recording of this site listed as AHIMS #38-4-0355). The site has been salvaged/destroyed and is no longer present (Figure 1).

There is one site registered on AHIMS 15 metres east of the boundary of the Project Area, AHIMS #38-4-2001 and comprised an artefact scatter of 14 silcrete stone artefacts (Attachment B). According to the site card (Attachment B) this site extends 12 metres and has low scientific significance with the artefact types and materials being represented elsewhere in the locality; however, it has also been nominated for test excavation under the Code of Practice². However, the AHIMS coordinates for this site differ from the map included in the site card and it is likely that this site is located 450 metres to the east. Numerous attempts were made to contact the archaeologist who recorded the site to clarify its location, but as yet, no further information has been received.

¹ Mary Dallas Consulting Archaeologists, "Due Diligence Aboriginal Heritage Assessment for a Senior Living Development at 107 Haussman Drive, Thornton," 2018.

² DECCW, *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (Department of Environment, Climate Change and Water, 2010).

There is a narrow strip of vegetation that appears not to have been previously disturbed by the quarry activity (Figure 2) and while AHIMS #38-4-2001 the first order drainage lines in this area are associated with numerous Aboriginal sites.

The most common site type in the area are surface artefact sites accounting for 89% of all sites. This includes isolated finds and artefact scatters. Where the number of artefacts was not specified in the AHIMS search, the label artefact/s has been given.

Other site types in the area include Potential Archaeological Deposits (PAD). PADs have also been found in association with artefacts, however this is a rarer site type, accounting for only 4% of sites in the area. The site types identified in the AHIMS search are summarised in Table 1.

Table 1 Site Types

Site types	Number	Per cent
Artefact/s	64	55.17%
Isolated Find	22	18.97%
Artefact Scatter	17	14.66%
PAD	8	6.90%
Artefact/s + PAD	5	4.31%
Total	116	100.00%

Of the sites identified 18.10% of sites have been salvaged/destroyed and 1.72% have been partially salvaged/destroyed, meaning that they have been subject to an Aboriginal Heritage Impact Permit. Majority of the sites affected have been surface artefact sites with only one Artefact + PAD site being salvaged/destroyed and one other being partially destroyed. Further details are provided in Table 2. Additional information on the environmental and heritage context is provided in Attachment C.

Table 2 Site Status

Site types	Salvaged/Destroyed	Partially Salvaged /Destroyed	Valid
Artefact/s	13	1	50
Isolated Find	5		17
Artefact Scatter	2		15
PAD			8
Artefact/s + PAD	1	1	3
Total	21	2	93
Per cent	18.10%	1.72%	80.17%

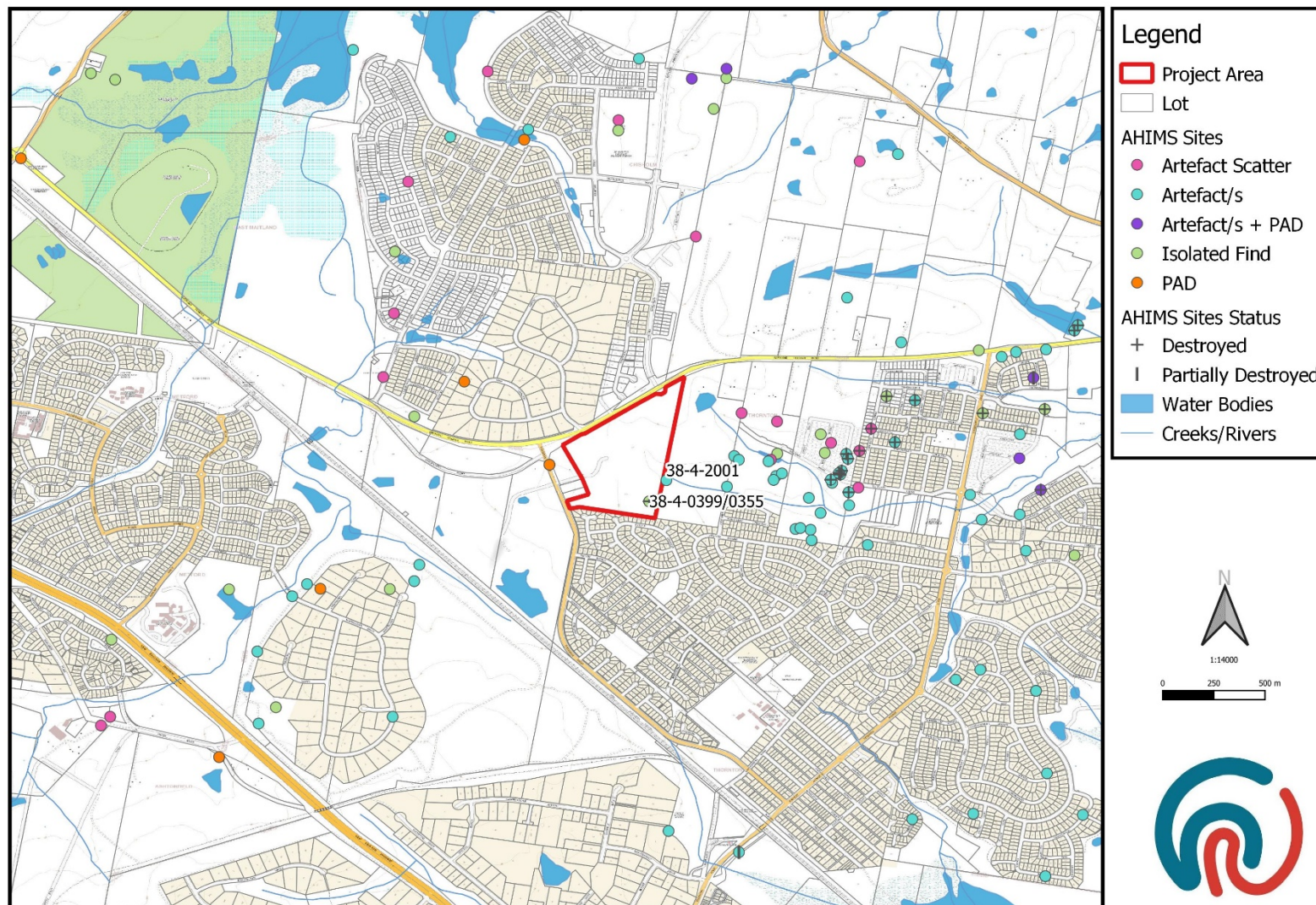


Figure 1 Updated AHIMS Search Results



Figure 2 Close-up of AHIMS site #38-4-2001

Analysis and Review

The Project Area has previously been subject to an Aboriginal Due Diligence Assessment by Mary Dallas Consulting Archaeologists³ which included a site inspection and Aboriginal consultation. The current impact area is almost identical to the previous, except for the detention basin, a 200m x 60m portion along the north and the north access way. It is noted that this previous assessment addressed the same block of land (Lot 2, DP11453348). The previous assessment included the environmental and heritage context, undertook predictive modelling and Aboriginal consultation, as well as impact assessment and recommendations, thus the report meets the requirements under the Due Diligence Code⁴.

The visual inspection was undertaken with a member of the Mindaribba Local Aboriginal Land Council (Jason Brown). No previously unidentified Aboriginal sites were observed, and the area was found to be highly disturbed and modified.

The previous report recommended that no further heritage works were required, but that works were to cease and protocols followed if Aboriginal objects or bones suspected of being human were uncovered.

Since the previous report, artefacts have been identified along the first order creekline which meets the Project Area in the east in an area that does not appear to have been previously impacted by the quarry, as such it is possible that there are additional artefacts associated with this site in the current impact area related to the detention basin. As such, a visual inspection in the vicinity in this area is warranted on the basis of the sensitivity of the landform and apparent lack of disturbance in this portion of the Project Area.

Conclusions

This desktop assessment has updated the AHIMS search and reviewed the previous Aboriginal Due Diligence Assessment. The previous assessment meets the requirements of the Due Diligence Code⁵. However, subsequent to this assessment Aboriginal artefacts have been identified along the first order creeklines in the area and there is a narrow strip of vegetation within the Project Area which appears to have not been disturbed and thus may have Aboriginal artefacts present.

A visual inspection in the vicinity of the AHIMS recorded location of AHIMS #38-4-2001 is needed if this vegetated area is to be impacted and this should be undertaken as part of the detailed design for the Development Application.

The protocols for outlined in the previous report are also to be followed if Aboriginal objects or bones suspected of being human were uncovered.

³ Mary Dallas Consulting Archaeologists, "Due Diligence Aboriginal Heritage Assessment for a Senior Living Development at 107 Haussman Drive, Thornton."

⁴ DECCW, "Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales" (Sydney, NSW: Department of Environment, Climate Change and Water, 2010).

⁵ DECCW.

Attachment A AHIMS Search

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN126-A Thornton

Client Service ID : 533190

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0342	Four Mile Creek 1; Contact	AGD	56	370510	6372100	Open site	Valid	Artefact : - Permits	Open Camp Site 2592,2809,2810,3011	2742,100988
38-4-0345	Thornton 1; Contact	AGD	56	373900	6371700	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	102568
38-4-0346	Thornton 2; Contact	AGD	56	373750	6371900	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	102568
38-4-0347	Thornton 3; Contact	AGD	56	373450	6371700	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	102568
38-4-0348	Thornton 4; Contact	AGD	56	373200	6371670	Open site	Valid	Artefact : - Permits	Open Camp Site 718	102568
38-4-0349	Thornton 5; Contact	AGD	56	373370	6372350	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	102568
38-4-0352	Thornton 8; Contact	AGD	56	373850	6372960	Open site	Valid	Artefact : - Permits	Isolated Find 718,887	100924
38-4-0353	Thornton 9; Contact	AGD	56	373650	6372980	Open site	Valid	Artefact : - Permits	Open Camp Site 718	100924
38-4-0354	Thornton 10; Contact	AGD	56	373470	6372400	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	100924,102568
38-4-0355	T 1; (Duplicate of 38-4-0399) Contact	AGD	56	372100	6373200	Open site	Destroyed	Artefact : - Permits	Isolated Find	103954
38-4-0356	T 2 Beresfield Contact	AGD	56	372500	6373200	Open site	Destroyed	Artefact : - Permits	Open Camp Site	
38-4-0360	Thornton 12; Contact	AGD	56	373750	6371400	Open site	Valid	Artefact : - Permits	Open Camp Site 102568	
38-4-0361	Thornton 11; Contact	AGD	56	373700	6372300	Open site	Valid	Artefact : - Permits	Open Camp Site 102568	
38-4-0363	Tenambit 2; Contact	AGD	56	369780	6375250	Open site	Valid	Artefact : - Permits	Isolated Find	
38-4-0364	Tenambit 3; Contact	AGD	56	369880	6375220	Open site	Valid	Artefact : - Permits	Isolated Find	
38-4-0365	Thornton 11; Contact	AGD	56	373700	6372300	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	102568
38-4-0366	Thornton 11; Contact	AGD	56	373750	6371400	Open site	Valid	Artefact : - Permits	Open Camp Site 718,887	102568

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38-4-0426	FMC3;	AGD	56	370500	6372450	Open site	Valid	Artefact : -	Open Camp Site	100512,100988
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	2592,2809,2810,3011	
38-4-0429	ASH-1;	AGD	56	369900	6372500	Open site	Valid	Artefact : -	Isolated Find	
	<u>Contact</u>		<u>Recorders</u>	Ms.Claire Everett				<u>Permits</u>		
38-4-0431	FMC 2;	AGD	56	370640	6372720	Open site	Valid	Artefact : -	Open Camp Site	100512,100988
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	2592,2809,2810,3011	
38-4-0432	FMC 4;	AGD	56	370700	6372780	Open site	Valid	Artefact : -	Open Camp Site	100512,100988
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	889,2592,2809,2810,3011	
38-4-0433	FMC 5;	AGD	56	371160	6372880	Open site	Valid	Artefact : -	Open Camp Site	100512
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	889	
38-4-0434	FMC 6;	AGD	56	371140	6372800	Open site	Valid	Artefact : -	Open Camp Site	100512
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	889	
38-4-0435	FMC 7;	AGD	56	371040	6372760	Open site	Valid	Artefact : -	Isolated Find	100512
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	889	
38-4-0436	FMC 8;	AGD	56	371060	6372140	Open site	Valid	Artefact : -	Open Camp Site	100512
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	889	
38-4-0437	FMC 9;	AGD	56	370580	6372180	Open site	Valid	Artefact : -	Isolated Find	100512
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>		
38-4-0395	T2; Beresfield	AGD	56	372500	6373200	Open site	Destroyed	Artefact : -	Open Camp Site	2880
	<u>Contact</u>		<u>Recorders</u>	Noeleen Curran,Ms.Penny Mccardle				<u>Permits</u>		
38-4-0399	T1;	AGD	56	372100	6373200	Open site	Destroyed	Artefact : -	Isolated Find	2880,103954
	<u>Contact</u>		<u>Recorders</u>	Mary Dallas Consulting Archaeologists (MDCA),Noeleen Curran,Ms.Lucinda O'Conn				<u>Permits</u>		
38-4-0401	Thorn-1;	AGD	56	372200	6371600	Open site	Valid	Artefact : -	Open Camp Site	3060,99973,102568,102615
	<u>Contact</u>		<u>Recorders</u>	Iain Stuart				<u>Permits</u>		
38-4-0416	FMC 2;	AGD	56	370380	6372750	Open site	Valid	Artefact : -	Isolated Find	100512
	<u>Contact</u>		<u>Recorders</u>	Liam Dagg				<u>Permits</u>	859	
38-4-0121	None Specified	AGD	56	373000	6373000	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>		<u>Recorders</u>	P Jones				<u>Permits</u>		
38-4-0123	None Specified	AGD	56	373100	6374900	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>		<u>Recorders</u>	P Jones				<u>Permits</u>		
38-4-0125	None Specified	AGD	56	372900	6374200	Open site	Valid	Artefact : -	Open Camp Site	
	<u>Contact</u>		<u>Recorders</u>	P Jones				<u>Permits</u>		

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN126-A Thornton

Client Service ID : 533190

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0625	Thornton 3 (T3)	AGD	56	371688	6373373	Open site	Valid	Artefact : 1		
	Contact	Recorders						Permits	2141	
38-4-0626	Thornton Substation PAD1	AGD	56	371688	6373373	Open site	Valid	Potential Archaeological Deposit (PAD) : 0		
	Contact	Recorders						Permits	1389	
38-4-0688	Metford Road PAD	AGD	56	369498	6374833	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders						Permits	1679,1971,2004	
38-4-0779	PAD1 Four Mile Creek South	AGD	56	369900	6372125	Open site	Valid	Potential Archaeological Deposit (PAD) : -		99960
	Contact	Recorders						Permits	2022	
38-4-0780	PAD2 Four Mile Creek Tributary	AGD	56	370350	6371935	Open site	Valid	Potential Archaeological Deposit (PAD) : -		99960
	Contact	Recorders						Permits	2022	
38-4-0781	Four Mile Creek South	AGD	56	369863	6372082	Open site	Valid	Artefact : 2		
	Contact	Recorders						Permits	2809,3011	
38-4-0803	Thornton North 8 - TN 8	AGD	56	372030	6375350	Open site	Valid	Artefact : -		100914
	Contact T Russell	Recorders						Permits	2113,2509,2880,2881,3341	
38-4-0804	Thornton North 9 - TN9	AGD	56	371580	6375000	Open site	Valid	Artefact : -		100914
	Contact T Russell	Recorders						Permits	2113,2509,2880,2881,3341	
38-4-0833	Four Mile Creek PAD	AGD	56	371333	6373772	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact T Russell	Recorders						Permits	2140	
38-4-0886	Thornton Beechwood 15	AGD	56	372390	6375260	Open site	Valid	Artefact : 1		103380
	Contact T Russell	Recorders						Permits	3875	
38-4-0887	Thornton Beechwood 11	AGD	56	372340	6375110	Open site	Valid	Artefact : 1		103380
	Contact T Russell	Recorders						Permits	3875	
38-4-0888	Thornton Beechwood 6	AGD	56	372275	6374489	Open site	Valid	Artefact : 2		103380
	Contact T Russell	Recorders						Permits	2816,2817,3875	
38-4-0889	Thornton North 27 (TN27)	AGD	56	371130	6373600	Open site	Valid	Artefact : 1		100988
	Contact T Russell	Recorders						Permits	2809,3011,3642	
38-4-0890	Thornton North 1	AGD	56	373125	6373986	Open site	Valid	Artefact : -		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	Contact T Russell	Recorders						Permits	2592,2819	
38-4-0891	Thornton North 3	AGD	56	373185	6373705	Open site	Destroyed	Artefact : -		
	Contact T Russell	Recorders						Permits	2592,2819,3189,3745	
38-4-0892	Thornton North Site 2	AGD	56	373444	6373951	Open site	Valid	Artefact : 1		
	Contact T Russell	Recorders						Permits	2592,2819	
38-4-0893	Thornton North 4	AGD	56	373105	6373500	Open site	Destroyed	Artefact : -		
	Contact T Russell	Recorders						Permits	2592,2819,3189	
38-4-0849	PAD1 Four mile creek south-2	AGD	56	369900	6372125	Open site	Valid	Artefact : 2		
	Contact Searle	Recorders						Permits	2592,2809,2810,3011	
38-4-0850	PAD2 Four Mile Creek Tributary -2	AGD	56	370350	6371935	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		100988
	Contact Searle	Recorders						Permits	2592,2809,2810	
38-4-0927	Thornton North Site 1 - Lot 20	AGD	56	372943	6374863	Open site	Valid	Artefact : 6		
	Contact T Russell	Recorders						Permits		
38-4-0928	Thornton North Site 2 - Lot 20	AGD	56	373068	6373723	Open site	Destroyed	Artefact : 1		
	Contact T Russell	Recorders						Permits	3745,4359	
38-4-0929	Thornton North Site 3 - Lot 20	AGD	56	373007	6373565	Open site	Destroyed	Artefact : 2		104167
	Contact T Russell	Recorders						Permits	3745,4359	
38-4-0930	Thornton North Site 4- Lot 1	AGD	56	372623	6373439	Open site	Valid	Artefact : 1		
	Contact T Russell	Recorders						Permits	4531	
38-4-0931	Thornton North Site 1 Lot 1	AGD	56	372597	6373409	Open site	Valid	Artefact : 3		
	Contact T Russell	Recorders						Permits	4531	
38-4-0932	Thornton North Site 2 Lot 1	AGD	56	372474	6373634	Open site	Valid	Artefact : 2		
	Contact T Russell	Recorders						Permits	4531	
38-4-0933	Thornton North Site 3 Lot 1	AGD	56	372620	6373595	Open site	Valid	Artefact : 2		
	Contact T Russell	Recorders						Permits	4531	
38-4-0934	Thornton North Site 4 - Lot 20	AGD	56	372620	6373595	Open site	Valid	Artefact : 3		104167
	Contact T Russell	Recorders						Permits	4359	
38-4-0935	Thornton North Site 5 - Lot 20	AGD	56	372960	6373457	Open site	Destroyed	Artefact : 2		104167
	Contact T Russell	Recorders						Permits	4359	
38-4-0936	Thornton North Site 6 - Lot 20	AGD	56	372958	6373278	Open site	Valid	Artefact : 40		104167
	Contact T Russell	Recorders						Permits		
38-4-0937	Thornton North Site 7 - Lot 20	AGD	56	372818	6373445	Open site	Valid	Artefact : 1		104167
	Contact T Russell	Recorders						Permits		

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SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0938	Thornton North Site 8 - Lot 20	AGD	56	372843	6373494	Open site	Valid	Artefact : 2		104167
	Contact T Russell	Recorders	Mr.Giles (dup ID#12832) Hamm Permits							
38-4-0939	Thornton North Site 9 - Lot 20	AGD	56	372800	6373535	Open site	Valid	Artefact : 1		104167
	Contact T Russell	Recorders	Mr.Giles (dup ID#12832) Hamm Permits							
38-4-0942	Thornton North 7 (TN7)	AGD	56	371410	6375280	Open site	Valid	Artefact : 20		100914
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2509,2880,2881,3341							
38-4-0943	Thornton North 3 (TN3)	AGD	56	371950	6375050	Open site	Valid	Artefact : 3		100914
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2880,2881,3341							
38-4-0944	Thornton North 13 (TN13)	AGD	56	371090	6374740	Open site	Valid	Artefact : 18		100914
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2468,2592,2880,2881,3341,3642							
38-4-0945	Thornton North 12 (TN12)	AGD	56	371260	6374960	Open site	Valid	Artefact : -		100914
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2880,2881,3341							
38-4-0881	Thornton North 26 (TN26)	AGD	56	371000	6373790	Open site	Valid	Artefact : 5		
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2468,2592,3642							
38-4-0882	Thornton North 21 (TN21)	AGD	56	371040	6374100	Open site	Valid	Artefact : 6		
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2468,2592,3642							
38-4-0883	Thornton North 20 (TN20)	AGD	56	371040	6374400	Open site	Valid	Artefact : 1		100914
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2880,2881,3341,3642							
38-4-0884	Thornton North 2 (TN2)	AGD	56	371950	6375000	Open site	Valid	Artefact : 1		100914
	Contact T Russell	Recorders	Mr.Peter Kuskie Permits 2880,2881,3341							
38-4-0978	Thornton North PAD 1	AGD	56	371564	6374950	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	Ms.Penny Mccardle Permits 2509							
38-4-1028	Segment B PAD	AGD	56	370755	6372758	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact Searle	Recorders	AECOM Australia Pty Ltd - Sydney Permits 2592,2809,2810,3011							
38-4-0124	Parkwood;	AGD	56	372850	6373300	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders	P Jones Permits							
38-4-1292	Thornton Bridge 1	GDA	56	372595	6371690	Open site	Partially Destroyed	Artefact : -		102615,10339 1
	Contact	Recorders	Umwelt (Australia) Pty Limited - Individual users,Niche Environment and Heritage Permits 3398,3944							
38-4-1643	Lot 2 Govt Road Thornton	GDA	56	373775	6374010	Open site	Partially Destroyed	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact	Recorders	Mr.Giles (dup ID#12832) Hamm Permits 3725							

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Client Service ID : 533190

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-1754	VALAIRE LAND 1/A	GDA	56	373723	6373735	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie Permits 3899							
38-4-1755	VALAIRE LAND 2/A	GDA	56	373522	6373438	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie Permits 3899							
38-4-1756	VALAIRE LAND 2/B	GDA	56	373722	6373618	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	South East Archaeology Permits 3899							
38-4-1757	VALAIRE LAND 4/A	GDA	56	373727	6373345	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie Permits 3899							
38-4-1758	VALAIRE LAND 5/A	GDA	56	373571	6373318	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie Permits 3899							
38-4-1759	RPS Thornton AS1	GDA	56	373569	6373835	Open site	Destroyed	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - Hamilton Permits							
38-4-1760	RPS Thornton AS2	GDA	56	373823	6373858	Open site	Destroyed	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - Hamilton Permits							
38-4-1733	TB16	GDA	56	372495	6375495	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Jason Barr Permits 3875							
38-4-1734	TB14	GDA	56	372353	6375445	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Peter Kuskie,South East Archaeology Permits 3875							
38-4-1789	RPS JN 2	GDA	56	373940	6374242	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - Hamilton,RPS Australia East Pty Ltd - Hamilton,Ms.Jo N Permits 4157							
38-4-1788	RPS JN 1	GDA	56	373954	6374267	Open site	Destroyed	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - Hamilton,RPS Australia East Pty Ltd - Hamilton,Ms.Jo N Permits 4157							
38-4-1844	MET/1	GDA	56	370960	6375567	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	MCH - McCardle Cultural Heritage Pty Ltd,Ms.Penny Mccardle Permits 4389							
38-4-1995	Lot 131 Site 1 Thornton	GDA	56	372551	6373614	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm Permits 4531							
38-4-1996	Lot 131 Site 3 Thornton	GDA	56	372570	6373596	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm Permits 4531							
38-4-2009	Lot 131 Site 9 Thornton	GDA	56	372692	6373590	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm Permits 4531							

Report generated by AHIMS Web Service on 04/09/2020 for Tessa Boer-Mah for the following area at Lat, Long From : -32.7867, 151.6074 - Lat, Long To : -32.7501, 151.6551 with a Buffer of 0 meters. Additional Info : Assessment. Number of Aboriginal sites and Aboriginal objects found is 116

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN126-A Thornton

Client Service ID : 533190

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-1976	RTRD03	GDA	56	372860	6373415	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
38-4-1977	RTRD14	GDA	56	372807	6373263	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
38-4-1978	RTRD01	GDA	56	372949	6373504	Open site	Destroyed	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1979	RTRD04	GDA	56	372988	6373530	Open site	Destroyed	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1980	RTRD05	GDA	56	372993	6373548	Open site	Destroyed	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1981	RTRD13	GDA	56	372869	6373260	Open site	Valid	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
38-4-1982	RTRD12	GDA	56	372827	6373268	Open site	Valid	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
38-4-1983	RTRD11	GDA	56	372874	6373209	Open site	Valid	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
38-4-1984	RTRD10	GDA	56	373023	6373444	Open site	Destroyed	Artefact : -		
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1985	RTRD09	GDA	56	373026	6373381	Open site	Valid	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits		
38-4-1986	RTRD08	GDA	56	372982	6373537	Open site	Destroyed	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1987	RTRD07	GDA	56	373011	6373630	Open site	Destroyed	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1988	RTRD06	GDA	56	373018	6373607	Open site	Destroyed	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1989	RTRD02	GDA	56	372909	6373342	Open site	Valid	Artefact : -		104167
	Contact	Recorders				Biosis Pty Ltd - Wollongong,Mrs.Samantha Keats		Permits	4359	
38-4-1966	Valaire Land 6/A	GDA	56	373812	6373466	Open site	Destroyed	Artefact : 1, Potential Archaeological Deposit (PAD) : 1		
	Contact	Recorders				Mr.Peter Kuskie,South East Archaeology		Permits		
38-4-1999	Lot 131 Site 4 Thornton	GDA	56	372724	6373519	Open site	Valid	Artefact : -		
	Contact	Recorders				Mr.Giles Hamm		Permits	4531	
38-4-2000	Lot 131 Site 5	GDA	56	372748	6373532	Open site	Valid	Artefact : -		

Report generated by AHIMS Web Service on 04/09/2020 for Tessa Boer-Mah for the following area at Lat, Long From : -32.7867, 151.6074 - Lat, Long To : -32.7501, 151.6551 with a Buffer of 0 meters. Additional Info : Assessment. Number of Aboriginal sites and Aboriginal objects found is 116

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : HN126-A Thornton

Client Service ID : 533190

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>	4531	
38-4-2001	Lot 131 Site 6 Thornton	GDA	56	372274	6373493	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>	4531	
38-4-2002	Lot 131 Site 7 Thornton	GDA	56	372714	6373500	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>	4531	
38-4-2003	Lot 131 Site 8 Thornton	GDA	56	372523	6373465	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>	4531	
38-4-2033	Raymond Terrace Road IF	GDA	56	373643	6374110	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - York Street Sydney ,Mrs.Amanda Crick					<u>Permits</u>		
38-4-2031	Raymond Terrace Road IF2	GDA	56	373825	6374148	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - York Street Sydney ,Mrs.Amanda Crick					<u>Permits</u>		
38-4-2032	Raymond Terrace Road IF1	GDA	56	373702	6374134	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>	RPS Australia East Pty Ltd - York Street Sydney ,Mrs.Amanda Crick					<u>Permits</u>		

Report generated by AHIMS Web Service on 04/09/2020 for Tessa Boer-Mah for the following area at Lat, Long From : -32.7867, 151.6074 - Lat, Long To : -32.7501, 151.6551 with a Buffer of 0 meters. Additional Info : Assessment. Number of Aboriginal sites and Aboriginal objects found is 116

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Office Use Only

Site number	3	8	—	4	—	2	0	0	1
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Date received / / Date entered into system / / Date catalogued / /

Entered by (I.D.)	
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Information access

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

For further information contact:

☒ **Nominated Trustee**

Title	Surname	First name	Initials
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M	R		S	T	A	M	M	E	R					E	R	I	C									
---	---	--	---	---	---	---	---	---	---	--	--	--	--	---	---	---	---	--	--	--	--	--	--	--	--	--

Organisation	S	T	A	N	N	I	C		S	E	C	U	R	I	T	I	E	S		P	T	Y		L	T	D	
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Address	P	O		B	O	X		2	4	0		G	O	R	D	O	N		N	S	W		2	0	7	2		
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[illegible]

☒ Knowledge holder

Title	Surname	First name	Initials
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M	R		M	I	L	L	E	R							T	O	M	M	Y									
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Organisation	L	O	W	E	R		W	O	N	N	A	R	U	A		C	O	U	N	C	I	L						
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Address	5	1		B	O	W	D	E	N		S	T		H	E	D	D	O	N		G	R	E	T	A			
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[illegible]

Aboriginal Heritage Unit or Cultural Heritage Division Contacts

[illegible]

Geographic location

[illegible]

Easting

3	7	2	2	7	4
---	---	---	---	---	---

 Northing

6	3	7	3	4	9	3
---	---	---	---	---	---	---

 AGD/GDA

GDA

Mapsheet	B	E	R	E	S	F	I	E	L	D	1	:	2	5	0	0	0
----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Zone	56	Location method	Non-Differential GPS
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Other registration	
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Primary recorder

Title	Surname	First name	Initials
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D	R		H	A	M	M						G	I	L	E	S								
---	---	--	---	---	---	---	--	--	--	--	--	---	---	---	---	---	--	--	--	--	--	--	--	--

[illegible]

Address	P	O		B	O	X		6	7		K	A	T	O	O	M	B	A		N	S	W		2	7	8	0
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[illegible]

Date recorded 15/09/2018

Office Use
Only

Client on
system

Client on
system

Client on
system

page 2

Open Site

Landform

☐ Mountainous

☐ Plain

☐ Rolling hills

☐ Steep hills

☒ Undulating plain

degrees

- ☐ Beach
- ☐ Coastal rock platform
- ☐ Dune
- ☐ Intertidal flat
- ☐ Lagoon
- ☐ Tidal creek

☐ Tidal flat

☐ Cliff

☒ Crest

☐ Flat

☐ Lower slope

☐ Mid slope

- ☐ Upper slope
- ☐ Plain
- ☐ Ridge
- ☐ Tor
- ☐ Valley flat
- ☐ Levy

- ☐ Stream bank
- ☐ Stream channel
- ☐ Swamp
- ☐ Terrace
- ☐ Terrace flat

<input type="checkbox"/>	Closed forest
<input type="checkbox"/>	Grasslands
<input type="checkbox"/>	Isolated clumps of trees
<input type="checkbox"/>	Open forest
<input checked="" type="checkbox"/>	Open woodland
<input type="checkbox"/>	Scrub
<input type="checkbox"/>	Woodland
<input checked="" type="checkbox"/>	Cleared
<input type="checkbox"/>	Revegetated
<input type="checkbox"/>	N/A

- ☐ Conservation
- ☐ Established urban
- ☐ Farming-intensive
- ☐ Farming-low intensity
- ☐ Forestry
- ☐ Industrial
- ☐ Mining
- ☒ Pastoral/grazing
- ☐ Recreation
- ☐ Semi-rural
- ☒ Service corridor
- ☐ Transport corridor
- ☐ Urban expansion
- ☐ Residential

Distance to permanent water source	1000	metres
Distance to temporary water source		metres
Name of nearest permanent water source	Four Mile Creek	
Name of nearest temporary water		

Site is located at 508 Raymond Terrace Road Thornton access along Raymond Terrace Road. Site can be reached driving south into paddock and stopping near the northern boundary of Lot 131.

☐ Public National park/government department

☒ Private

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

General site information

Closed site

Shelter/cave formation

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

Rock surface condition

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

Open site

Site orientation

- ☐ N-S
☐ NE-SW
☐ E-W
☐ SE-NW
☒ N/A

Condition of Ceiling

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

Shelter Aspect

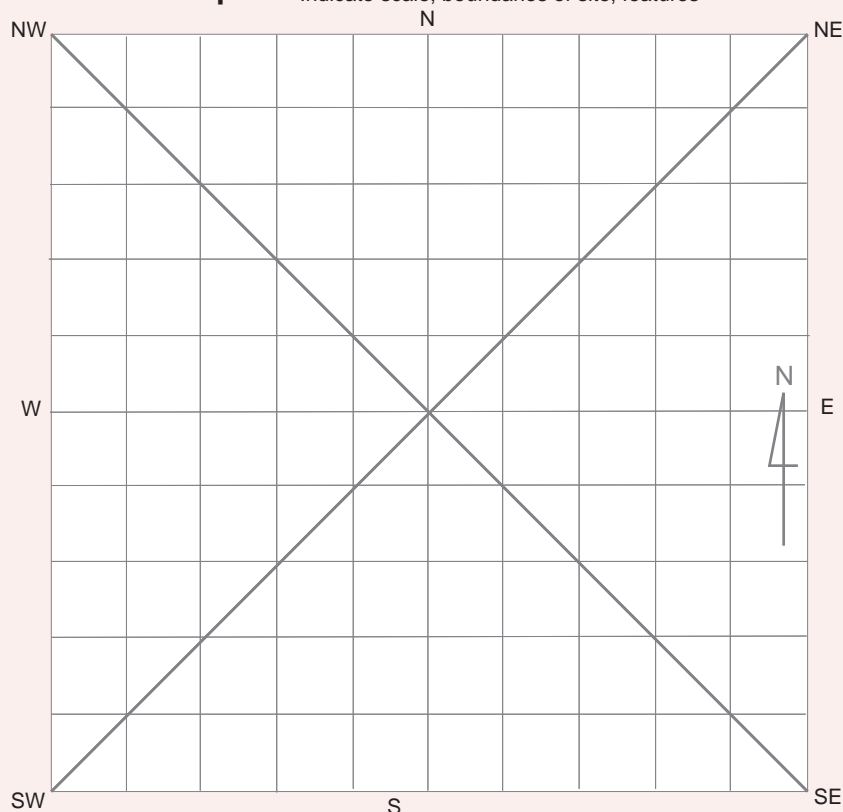
- ☐ North
☐ North East
☐ East
☐ South East
☐ South
☐ South West
☐ West
☐ North West

Features

- ☐ 1. Aboriginal ceremony and dreaming
☐ 2. Aboriginal resource and gathering
☐ 3. Art
☒ 4. Artefact
☐ 5. Burial
☐ 6. Ceremonial ring
☐ 7. Conflict
☐ 8. Earth mound
☐ 9. Fish trap
☐ 10. Grinding groove
☐ 11. Habitation structure
☐ 12. Hearth
☐ 13. Non human bone & organic material
☐ 14. Ochre quarry
☐ 15. Potential archaeological deposit
☐ 16. Stone quarry
☐ 17. Shell
☐ 18. Stone arrangement
☐ 19. Modified tree
☐ 20. Water hole

Site plan

Indicate scale, boundaries of site, features



Site dimensions

Closed site dimensions (m)

- Internal length
 Internal width
 Shelter height
 Shelter floor area

Open site dimensions (m)

- 12 m Total length of visible site
 12 m Average width of visible site
 Estimated area of visible site
 Length of assessed site area

Aboriginal community interpretation and management recommendations

Site was recorded as part of a due diligence assessment for Lot 131 DP 1223790 for a proposed sewer-line installation assessment. The site will be subject to a Code of Practice Test Excavation process and as a result of the proposed sewer-line development will be managed through an Aboriginal Heritage Impact Permit approval under section 90 of the NPW Act 1974. Two Wonnarua traditional owners Gordon Griffiths and George Sampson were part of the survey assessment.

Preliminary site assessment

Site cultural and scientific analysis and preliminary management recommendations

The site has been assessed to be of low scientific and archaeological significance. Sixteen Aboriginal objects have been identified as part of the site's overall surface survey assessment. The stone artefacts recorded are considered to be commonly represented in the local area and are not considered rare or unique.

This section should only be filled in by the endorsees

Endorsed by: ☒ Knowledge holder ☐ Nominated trustee ☐ Native Title holder ☐ Community consensus

Title	Surname	First name	Initials
M R	S a m p s o n	G e o r g e	
Organisation	C a c u t u a C u l t u r e		
Address	2 2 I b i s P d W o o d b e r r y 2 3 2 2		
Phone number	0 4 3 4 8 7 7 0 1 6 Fax		

Attachments (No.)

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

Comments

see survey map attachment

Feature recording form - artefact

page 1

Site I.D.	<input type="text"/>	Site name	<input type="text" value="Lot 131 (DP 1223790) Site 6 Thornton"/>
First recorded date	<input type="text" value="15/09/2018"/>	Importance	<input type="text" value="Contributes to secondary site imp"/>
No. of instances	<input type="text" value="1"/>		
Recorded by	<input type="text" value="ARAS PTY"/>		
	Yes No		
Stone artefacts only	<input type="text" value="No"/>	Percentage of non-stone artefacts to percentage of stone artefacts	
Artefacts collected	<input type="text" value="No"/>	0-9% 10-19% 20-29% 30-39% 40-49% 50-59% 60-69% 70-79% 80-89% 90-100%	
A permit is required to collect artefacts		<input type="text" value="0-9%"/>	

Feature context and condition

Scatter No.

Easting

Northing

Density

Dimensions

Yes No

(Artefact count per square metre)

Length (m)

Width (m)

Depth (m)

In situ

Stratified

Feature condition

General condition

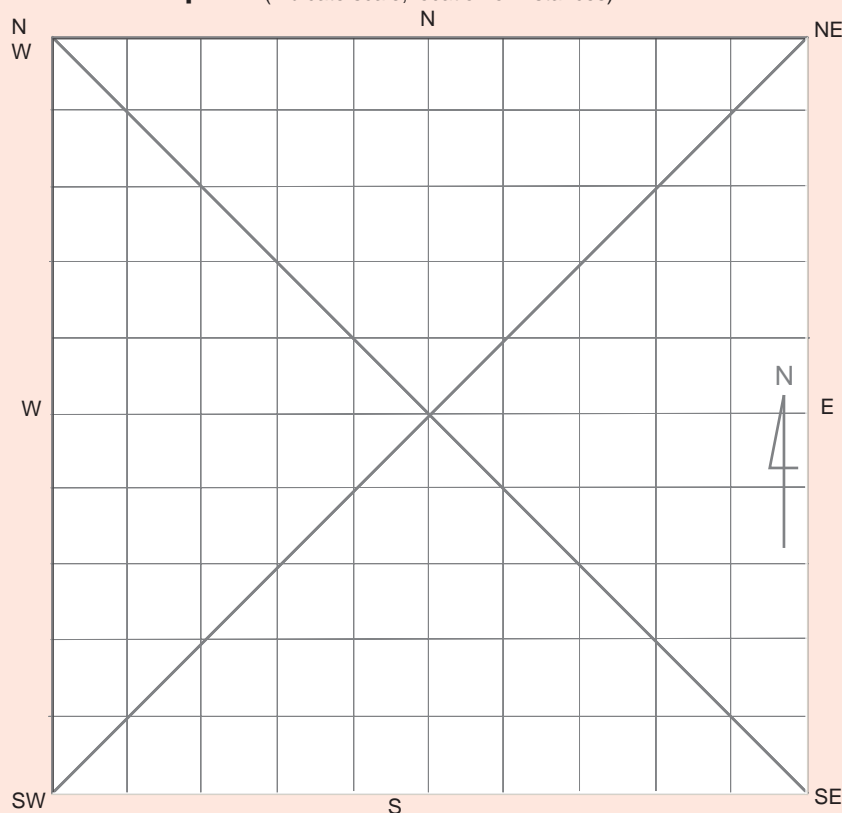
Recommended action

- ☐ Very good
- ☐ Good
- ☒ Poor

- ☐ Weathered
- ☐ Vehicle damage
- ☒ Surface water wash
- ☐ Fire damage
- ☒ Erosion
- ☐ Stock damage
- ☐ Exposed archaeological material

- ☐ Boardwalk
- ☐ Fencing
- ☐ Closure to public
- ☐ Continued inspection
- ☐ Fire hazard reduction
- ☐ Expert assessment
- ☐ Meeting with land manager
- ☒ Revegetation
- ☐ Signage
- ☐ Soil erosion control
- ☐ Track closure/re-routing
- ☐ Additional recording

Feature plan (Indicate scale, location of instances)



Feature environment

(Complete when *feature* environment differs to *site* environment, use attributes from cover card, p. 2)

Land form

Land form unit

Slope

Vegetation

Land use

Water

Distance to permanent water source metres

Distance to temporary water source metres

Name of nearest permanent water source

Name of nearest temporary water

Stone artefact

Instance no.	Recording date	Artefact material	Artefact type	Platform surface	Platform type	Termination	Cross section	Length (mm)	Width (mm)	Thickness (mm)
1	2018	Silcrete	Distal Fragmer	Cortex	N/A	Step	N/A	12	9	3
2	2018	Silcrete	Flake	Cortex	Wide	Feather	High/Weak	23	17	7
3	2018	Silcrete	Distal Fragmer	Cortex	N/A	Feather	N/A	21	18	9
4	2018	Silcrete	Flake	Flake scar	Focal	Feather	N/A	32	22	9
5	2018	Silcrete	Flaked Piece	N/A	N/A	N/A	N/A	17	14	6
6	2018	Silcrete	Distal Fragmer	N/A	N/A	Feather	N/A	22	16	8
7	2018	Silcrete	Medial BF	N/A	N/A	N/A	N/A	16	8	4

Other artefact type

Instance no.	Recording date	Artefact material	Artefact type	Description	Length (mm)	Width (mm)	Thickness (mm)
8	2018	Silcrete	Medial BF	Focal platform no cortex	35	15	8
9	2018	Silcrete	Medial BF	No cortex	30	15	9
10	2018	Silcrete	Flaked Piece	No cortex	28	16	10
11	2018	Silcrete	Medial BF	No cortex	18	12	6
12	2018	Silcrete	Medial BF	No cortex	16	10	4
13	2018	Silcrete	Medial BF	No cortex	28	17	11
14	2018	Silcrete	Complete Flake	Wide Platform, Feather termination	30	28	10

Material

Basalt
Chert
Fine grained siliceous
Granite
Quartz
Quartzite
Sandstone
Silcrete
Green glass
Amber glass
Amethyst glass

Clear glass
Ceramic
Porcelain
Tin can
Wire
Nail
Button
Shell
Bone
Wood
Resin

Artefact description

Adze
Anvil
Axe
Backed blade
Blade
Core
Core tool
Cyclon
Distal fragment
Eloura
Flake

Flake tool
Flaked piece
Hammerstone
Manuport
Milling slab
Mortar
Muller
Nuclear tool
Pirri
Proximal fragment
Tula
Other diagnostic type
Modified
Unworked

Platform surface

Cortex
Flake scar
More than one flake scar
Faceted
Ground
Indeterminate
Bipolar

Platform type

☐ ☐ ☐ ☐
☐ ☐ ☐ ☐ ☐ ☐
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
☐ ☐ ☐ ☐ ☐

Termination

Feather
Hinge
Step
Outrepassé
Bipolar

Cross section

High/strong
High/weak
Low/weak
Irregular

Comments:

Site I.D.

Site ☐ame

First recorded date

Importance

Aboriginal information recorded?

No. of instances

Recorded by

Feature description

No. of scars

No. of carved panels

Feature condition

☐ Very good

☐ Good

☐ Poor

Condition

☐ Weathered

☐ Ringbarked

☐ Fire damage

☐ Vehicle damage

☐ Insects/termites

☐ Rot

☐ Limb fall

☐ Stock damage

Easting

Northing

Recommended action

☐ Fencing☐ Tree health assessment

☐ Closure to public☐ Track closure/re-routing

☐ Continued inspection☐ Additional recording

☐ Expert assessment☐ Fire hazard reduction

☐ Insect removal☐ Meeting with land manager

☐ Rubbish removal☐ Signage

Feature environment (Complete when feature environment differs to site environment, use attributes from cover card, page 2)

Land form

Land form unit

Slope

Vegetation

Land use

Water

Distance to permanent water source metres

Distance to temporary water source metres

Name of nearest permanent water source

Name of nearest temporary water

Feature location plan

Scar/carved panel drawing

NW

N

NE

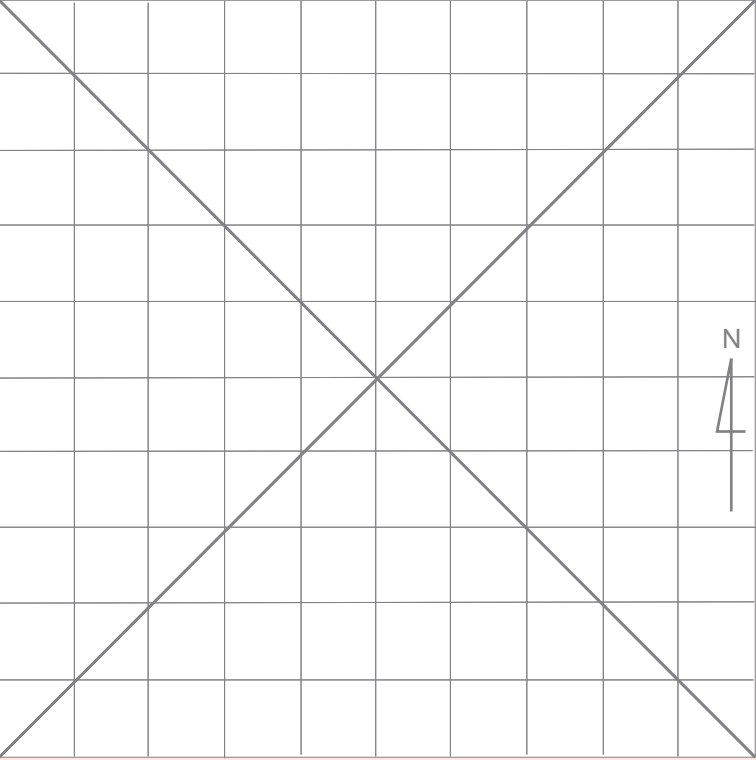
W

E

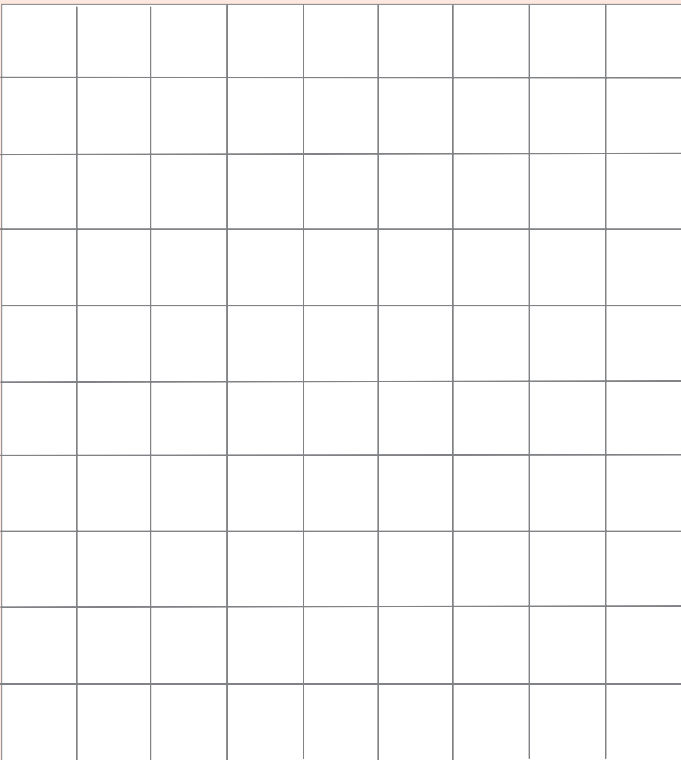
SW

S

SE



Indicate scale



Attach additional drawings

Feature recording form - groove

page 1

Site I.D.

Site name

First recorded date / /

Importance

Aboriginal information recorded?

No. of instances

Recorded by

Feature description

Type of grinding feature

- ☐ Broad
- ☐ Narrow/point
- ☐ Hollow

Profile shape

- ☐ 'U' shaped
- ☐ 'V' shaped
- ☐ Flat

Seed species present

Recording date / /

Groove function

Dimensions

Smallest

Length (mm)

Width (mm)

Depth (mm)

Largest

Length (mm)

Width (mm)

Depth (mm)

Groove count

Cluster count

Feature context and condition

Easting

Northing

Dimensions of whole feature

Length (m)

Width (m)

Feature condition

- ☐ Very good
- ☐ Good
- ☐ Poor

General condition

- ☐ Weathered
- ☐ Vandalised

General condition ctd.

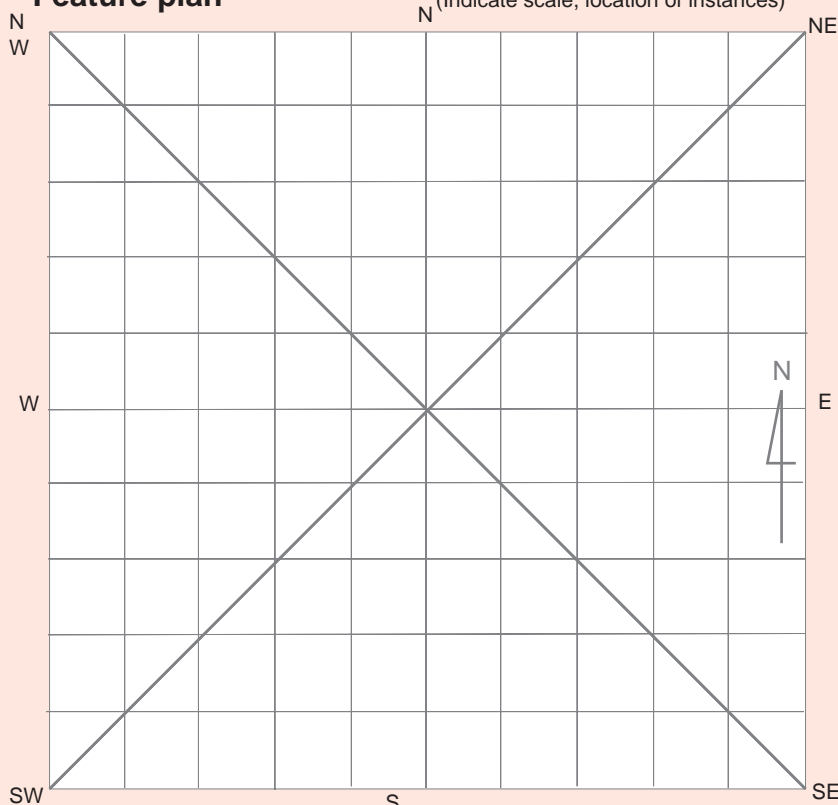
- ☐ Fire damage
- ☐ Surface water wash
- ☐ Graffiti
- ☐ Vehicle damage
- ☐ Erosion
- ☐ Stock damage

Recommended action

- ☐ Boardwalk
- ☐ Cage/barrier/fencing
- ☐ Closure to public
- ☐ Continued inspection
- ☐ Expert assessment
- ☐ Graffiti removal
- ☐ Meeting with land manager
- ☐ Revegetation
- ☐ Rubbish removal
- ☐ Signage
- ☐ Erosion control
- ☐ Track closure/re-routing
- ☐ Additional recording

Feature plan

(Indicate scale, location of instances)



Feature environment

(Complete when *feature* environment differs to *site* environment, use attributes from cover card, p. 2)

Land form

Land form unit

Slope

Vegetation

Land use

Water

Distance to permanent water source metres

Distance to temporary water source metres

Name of nearest permanent water source

Name of nearest temporary water

Feature recording form - art

Site I.D.	<input type="text"/>	Site name	<input type="text"/>
First recorded date	<input type="text"/> / <input type="text"/> / <input type="text"/>	Importance	<input type="text"/>
No. of instances	<input type="text"/>	Aboriginal information recorded?	<input type="text"/>
Recorded by	<input type="text"/>		

Feature context and condition

Easting Northing

Pigment Engraved Super-impositioning

Artwork condition

- ☐ Very good
- ☐ Good
- ☐ Poor

General condition

- ☐ Weathered
- ☐ Vandalised
- ☐ Surface water wash
- ☐ Mineralisation
- ☐ Graffiti
- ☐ Fire damage
- ☐ Insects/termites
- ☐ Erosion
- ☐ Stock
- ☐ Unstable structure

Recommended action

<input type="checkbox"/> Boardwalk	<input type="checkbox"/> Rubbish removal
<input type="checkbox"/> Cage/barrier/fencing	<input type="checkbox"/> Signage
<input type="checkbox"/> Closure to public	<input type="checkbox"/> Erosion control
<input type="checkbox"/> Continued inspection	<input type="checkbox"/> Track closure/re-routing
<input type="checkbox"/> Dripline	<input type="checkbox"/> Additional recording
<input type="checkbox"/> Expert assessment	
<input type="checkbox"/> Fire hazard removal	
<input type="checkbox"/> Graffiti removal	
<input type="checkbox"/> Insect/bird nest removal	
<input type="checkbox"/> Meeting with land manager	

Feature environment

(Complete when *feature* environment differs to *site* environment, use attributes from cover card, p. 2)

	Land form
	Land form unit
	Slope
	Vegetation
	Land use

Water

Distance to permanent water source	<input type="text"/>	metres
Distance to temporary water source	<input type="text"/>	metres
Name of nearest permanent water source	<input type="text"/>	
Name of nearest temporary water	<input type="text"/>	

Art sketch plan

Sketch and number motif groups

[illegible]

Motif			Application technique	Main colour	Art location	Condition
Anthropomorphic	Female	Marine-Other	Abraded	Black	All over shelter surfaces	Faded
Bird	Fish	Other	Drawn	Mauve *	ceiling	Stained
Bird Track	Foot	Pattern	Other	N/A	Floor	Mineralisation Evident
Canoe	Hand	Quadruped	Painted	Orange *	Mostly near largest sheltered space	V brant Colours
Circle	Jellyfish	Reptile	Pekked	Other	Mostly on out of the way surfaces	Unweathered
Contact material culture	Kangaroo	Rifle	Pigment & Engraved	Red *	Other	Weathered
Duck	Line	Shield	Stencilled	White *	Wall	
Eel	Lizard	Ship	Form	Yellow *		
Emu	Macropod	Snake	Fill			
Emu track	Macropod Track	Spear	Line			
European figure	Male	Wallaby	Line+ Fill			
			Other			
			Pattern			

[illegible]

Site I.D. Site name First recorded date / / Importance Aboriginal information
recorded? No. of instances Recorded by **Feature context
and condition**Easting Northing **Dimensions of whole feature**

Length (m)

Width (m)

Depth (m)

shell distribution☐

Surface scatter

Distance to high water mark (m)

☐

Stratified deposit

☐

Mounded

Feature condition☐

Very good

☐

Good

☐

Poor

General condition☐

Weathered

☐

Vandalised

☐

Surface water wash

☐

Mineralisation

☐

Graffiti

General condition ctd☐

Fire damage

☐

Vehicle damage

☐

Insects/termites

☐

Erosion

☐

Stock damage

☐

Unstable structure

☐

Exposed bone material

☐Exposed archaeological
material**Recommended action**☐

Boardwalk

☐

Cage/barrier/fencing

☐

Closure to public

☐

Continued inspection

☐

Expert assessment

☐

Fire hazard removal

☐

Graffiti removal

☐

Meeting with land manager

☐

Insect/bird nest removal

☐

Revegetation

☐

Rubbish removal

☐

Signage

☐

Erosion control

☐

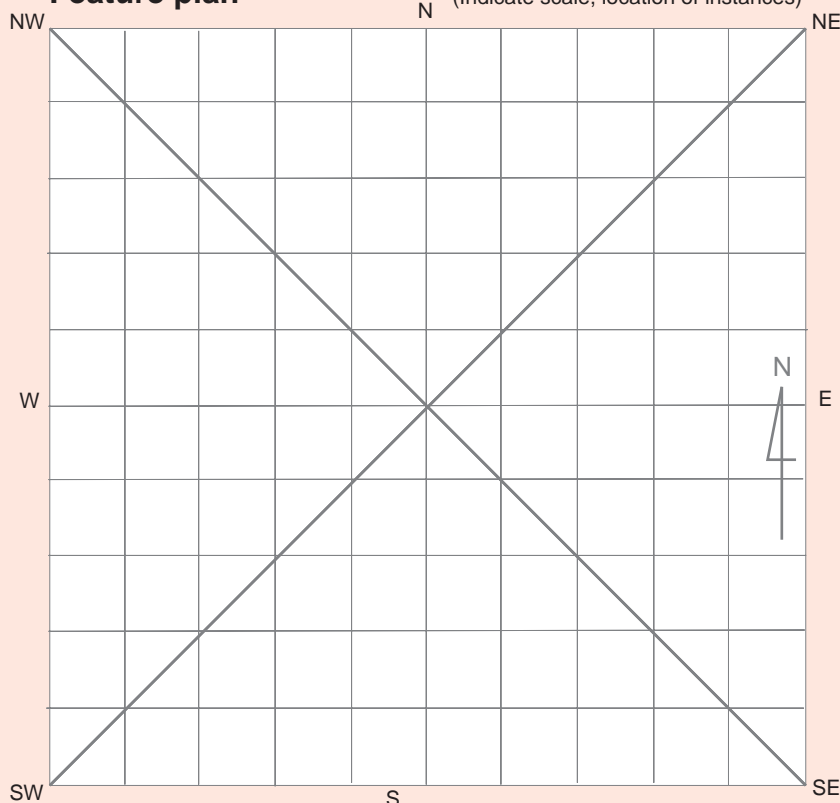
Track closure/re-routing

☐

Additional recording

Feature plan

(Indicate scale, location of instances)

**Feature environment**(Complete when *feature* environment
differs to *site* environment, use attributes
from cover card, p. 2)

Land form

Land form unit

Slope

Vegetation

Land use

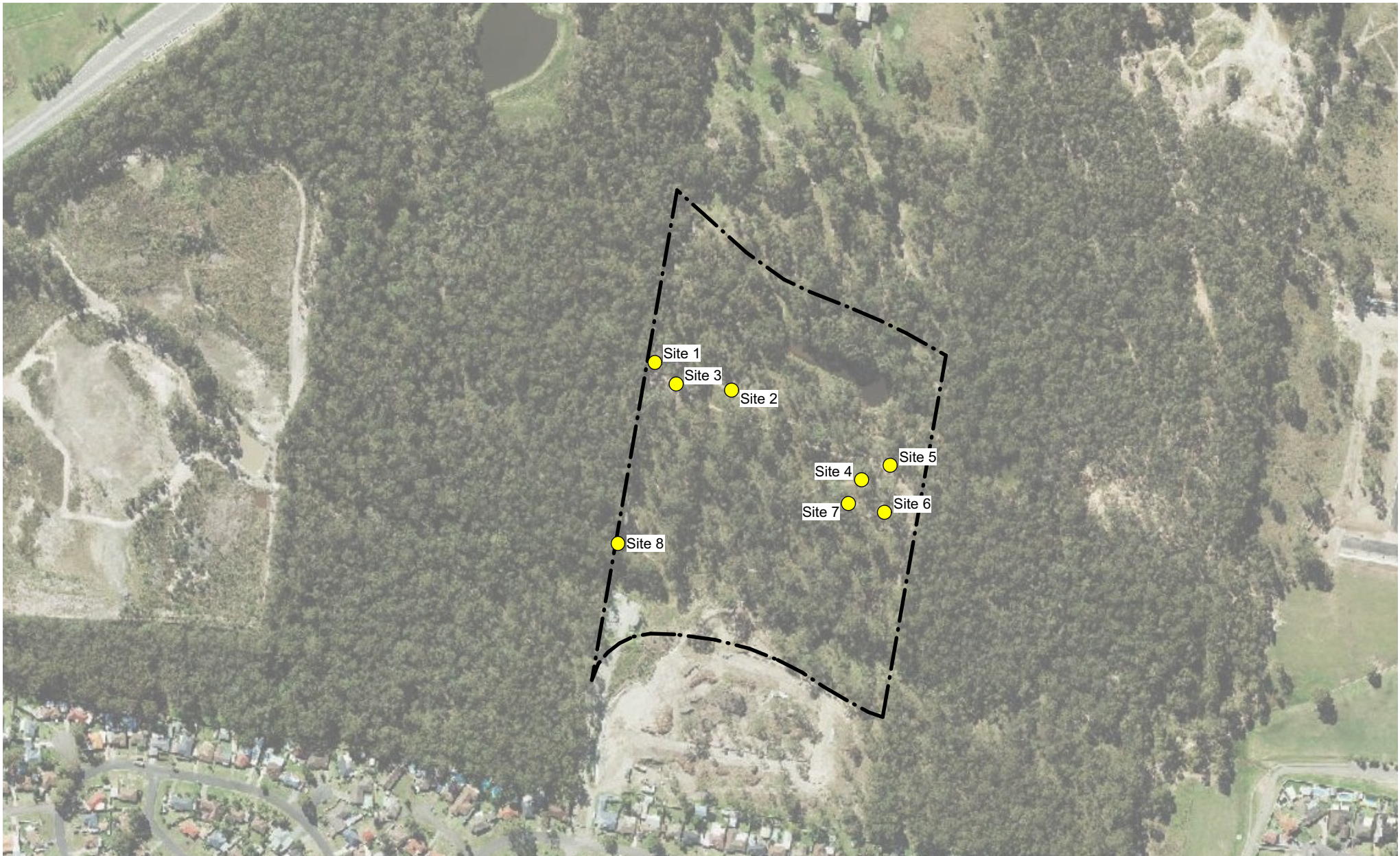
WaterDistance to permanent water source metresDistance to temporary water source metres

Name of nearest permanent water source

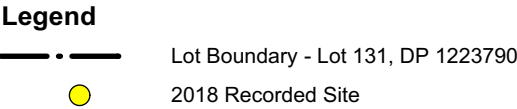
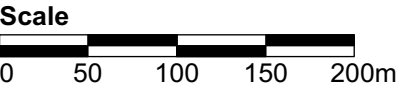
Name of nearest temporary water

Species		Percentage of this species shell to percentage total of other shell
Anadara	Nerita	0 – 9%
Bimbala	Ocean Snail	10 – 19%
Chiton	Periwinkle	20 – 29%
Cowrie	P	30 – 39%
Dog Cockle	Ribbed Cockle	40 – 49%
Duck Bill	Rock Oyster	50 – 59%
Limpit	Thiad	60 – 69%
Mud oyster	Triton	70 – 79%
Mutton Fish	Turban (large)	80 – 89%
		90 – 100%

[illegible]



Thornton - Lot 131 with
Aboriginal Sites from 2018 survey



Attachment B Previous Due Diligence Report



6th July 2018

Shane Boslem
Senior Project Director
McCloy Group
Suite 2, Ground Floor
317 Hunter Street
Newcastle NSW 2300

Dear Mr Boslem,

**RE: DUE DILIGENCE ABORIGINAL HERITAGE ASSESSMENT FOR A SENIOR LIVING
DEVELOPMENT AT 107 HAUSSMAN DRIVE, THORNTON NSW**

This report has been prepared by MDCA [Mary Dallas Consulting Archaeologists] at your request in relation to a proposed senior living development at 107 Haussman Drive (Lot 2 in DP 11453348) at Thornton, between Raymond Terrace Road and Woodberry Swamp in the south-eastern suburbs of Maitland (**Figure 1**). This report presents the results of a Due Diligence Aboriginal Heritage Assessment to meet the requirements of Due Diligence as per the OEH 2010 *Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales*, including a determination of whether further archaeological investigation may be required in relation to the current proposal. It has been prepared by MDCA archaeologists, Tamika Goward and Lucinda O'Connor.

Contextual Information

The subject land

The subject land is situated within the Hunter Region, approximately 8km south-east of Maitland and 22km north-west of Newcastle (**Figure 1**). It comprises a total approximate area of 18.96ha. The subject land is located within the Maitland Local Government Area, Parish of Alnwick and lies within the Office of Environment and Heritage North East Region. The subject land is bound to the north by Raymond Terrace Road, to the south by residential lots, to the west by a substation and rural lands, and to the east by vacant rural bushland. The subject land is currently extant as a large open disused quarry (**Figure 2**).

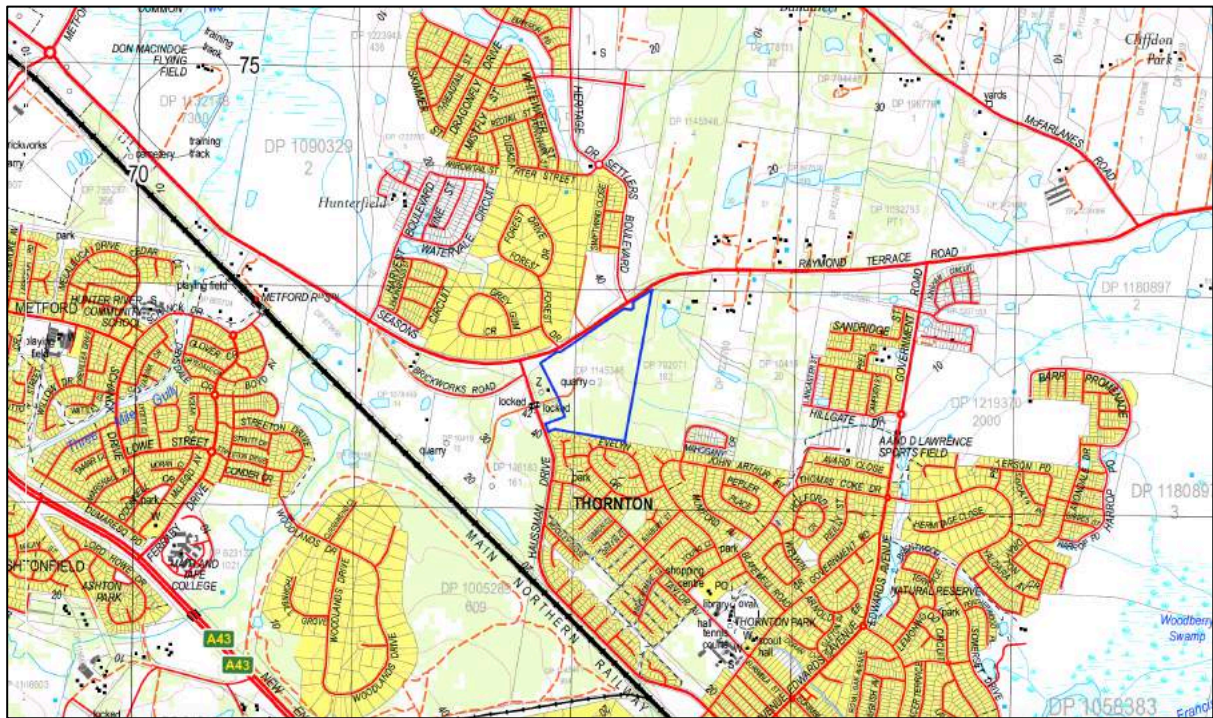


Figure 1. The subject land (orange outline) in its topographic context.



Figure 2. The subject land (orange outline).

[source: Google Earth 2007]



Figure 3. Layout of the proposed senior living development.

[Note the blue dashed line indicates the Inner and Outer Protection Areas]



The subject land is proposed for development as senior living inclusive of road construction, a detention basin, carpark, recreation areas and green spaces as indicated in **Figure 3**. Note that the maximum development envelope is restricted to the Outer Protection Area (OPA) and that no impacts will occur outside of this area. The land outside of the OPA will be an Environmental Asset Zone and vegetation here will be retained. Impacts from this development would include remediation of the current quarry and land modification (cut and fill) to facilitate house construction and the installation of relevant infrastructure inclusive of roads, sewer and electricity. In areas proposed for development this could be expected to impact any physical remains of past Aboriginal use on or immediately below the current ground surface.

The subject land lies on the south facing mid to lower slopes of a ridgeline that forms the watershed between Woodberry Swamp approximately 2.5km to the south-east and Four Mile Creek approximately 1.2km to the west. It is situated 50m west of a first order tributary of Francis Greenway Creek which flows east into the Hunter River some 6km south-east of the subject land.

The subject land is underlain by the Permian sediments of the East Maitland Hills region (Matthei 1995). These sediments comprise the residual soils of the Beresfield Soil Landscape. The Beresfield soil landscape is characterised by undulating low hills and rises with local relief at 10-50m (Matthei 1995). In contexts like the current subject land, intact soil profiles on side slopes can consist of up to 5-10cm of friable brownish black loam A1 (topsoil) horizon overlying 10-30cm of hard-setting dull yellowish brown sandy loam A2 horizon, on Pedal brown plastic mottled clay subsoil. Archaeological deposits in these soils are however likely to be restricted to the A horizon and are vulnerable to natural erosion and historical disturbance. Where disturbance occurs the A1 horizon is commonly absent, exposing the A2 horizon or subsoils at the surface. There is no outcropping bedrock present within the subject land.

Historically, the subject land has been cleared of its original vegetation. Prior to clearing, the subject land is likely to have supported tall open forest characterised by spotted gum (*E. maculata*), broad-leaved ironbark (*E. fibrosa*), grey gum (*E. punctata*), narrow-leaved stringybark (*E. oblonga*), thin-leaved stringybark (*E. eugenioides*) and grey ironbark (*E. paniculata*). The understory comprised paperbark, wattle and blackthorn (Matthei 1995). The creeks and intervening forest environments would have supplied Aboriginal people with a range of foods and raw materials.

Historic impacts to the subject land have included vegetation clearance and agricultural use. The subject land began being used as a brickworks in 1882. It was then purchased by CSR in 1969 after which large-scale land modifications associated with the PGH Clay Bricks and Pavers quarry took place and shaped the highly disturbed landscape, which is present today. Activities related to the use of this quarry, including a mineshaft in the northern portion, has resulted in the removal of the majority of the original soil profile. The quarry ceased activities in 2006 and has lay dormant ever since. Various portions of the quarry have since been remediated. The mineshaft has been removed and



much vegetation rehabilitation implemented. These historical and more recent impacts could be expected to have significantly disturbed the natural soil horizons across much of the subject land.

Background research

For the current assessment, the Office of Environment and Heritage ('OEH') Aboriginal Heritage Information Management System ('the AHIMS Register') and Catalogue of Archaeological Reports was consulted. An online search of the AHIMS Register of a 4km x 4km area centred on the subject land revealed that 84 Aboriginal sites had been previously recorded in the search area¹ (**see Attachment 1**, see also **Figure 4**). One of these previously recorded sites is erroneously stated to be located within the subject land.

This site is an isolated find in a disturbed context known as *T1*; (AHIMS #38-4-0399/ 38-4-0355). It is a broken tuff flake found on a vehicle track that was recorded during survey for a then proposed extension of the clay extraction pit (Resource Planning 1993). This site has two AHIMS numbers due to a duplicate recording. It should be noted that while this site is registered within the current subject, the details on the original site card and report specify that the site is located within the adjacent property to the east (Lot 182 DP792071). During the 1993 assessment, the isolated find has been collected and deposited at Mindarriba LALC (Resource Planning 1993). The site has therefore been destroyed.

Another two sites have been registered on the adjacent property to the west. These sites are *Thornton 3 (T3)* (AHIMS #38-4-0625), an artefact scatter, and *Thornton Substation PAD 1* (AHIMS #38-4-0626), a Potential Archaeological Deposit. *Thornton 3 (T3)* comprises four silcrete and one mudstone artefact within 15m of one another. Both sites were recorded in the road reserve to the west of the substation along Haussman Drive by McCardle Cultural Heritage in 2002 during an archaeological survey for the substation. Both these sites have been managed under AHIPs prior to the construction of the substation.

Overall, the majority of sites in the search area comprise open artefact scatters, isolated finds and potential archaeological deposits, and are located along watercourses. Site locations are also strongly associated with the focus of archaeological investigation in the area, particularly in connection with areas where residential subdivision has occurred over the last few decades. The mapping of the AHIMS register data in **Figure 4** consequently demonstrates this pattern of recent investigation rather than a pattern of past Aboriginal land use. The sites within the search area are summarised in **Table 1**.

¹ Report generated by AHIMS Web Service on 4/6/2018.

Table 1: Summary of sites registered within the search area.

Site Type	Number of Sites	Percentage of Sites
Artefact Scatter	53	63%
PAD	11	13%
Isolated Find	7	8%
No site type listed	13	16%
Total	84	100%

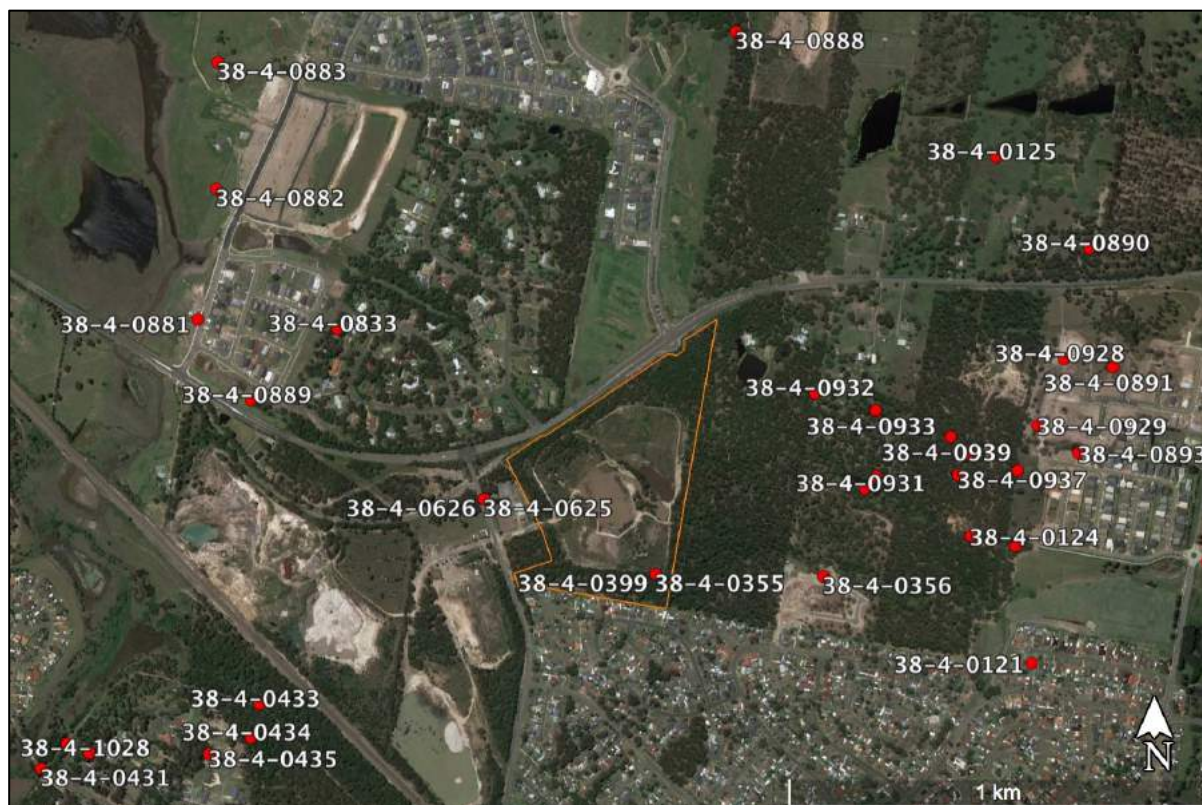


Figure 4. Aboriginal sites registered on AHIMS within the vicinity of the subject land (orange outline).

[Note that #38-4-0355/38-4-0399 is located further east, outside of the current subject land]

In addition to the AHIMS Register search, updated online searches of several other repositories were undertaken on 18/6/2018 to determine whether any Aboriginal sites or areas of potential have been identified within or adjacent to the subject lands. The results of these searches can be summarised as follows:

- A search of the Australian Heritage Database (incorporating the Register of the National Estate) was undertaken for Aboriginal heritage items within the Maitland Local Government Area. No items are listed for their Aboriginal heritage values within or adjacent to the subject land.
- The NSW State Heritage Inventory (incorporating the NSW State Heritage Register) was searched for Aboriginal heritage items within the Maitland Local Government Area. No items on



either register within close proximity to the subject lands appear to be listed for their Aboriginal heritage values.

Local Archaeological Context

The current subject land has been partially investigated in the past through field survey (see Resource Planning Pty Ltd 1994). Several Aboriginal archaeological studies have also considered surrounding areas. These past studies provide a perspective of the local archaeological context of the Thornton area.

- Of most relevance to the current assessment are investigations conducted by Resource Planning Pty Ltd (1994a) for the proposed clay extraction pit immediately adjacent to the current subject land. Their study area comprised Lot 1742, which was then the eastern half of the current subject land and part of lot 182, with approximately a 100m buffer. Part of the survey was conducted in the eastern and south-eastern portions of the current subject land. Ms. Ricki-Jo Griffiths from Mindaribba LALC participated in this survey. During the 1993 survey two Aboriginal sites were recorded, an open artefact scatter and an isolated find. The isolated find, *T1*; (AHIMS #38-4-0399/38-4-0355) is located in the property to the east of the current subject land (see **Figure 4**). It is a snapped flake of Nobby's tuff, located in Lot 182, in a disturbed context, on a vehicle track. The artefact was not insitu and was collected and placed at Mindaribba LALC office. The open artefact scatter, *T2*; (AHIMS #38-4-0395) was found insitu approximately 1-2m from a creek line. This artefact scatter comprised 25-30 silcrete and chert artefacts. Due to the absence of archaeological sites and potential within their study area, it was recommended that development proceed as planned.
- In 1994 Resource Planning conducted a survey for a residential subdivision, immediately northeast of the current subject land. The study area was noted to have low surface visibility and no Aboriginal sites or areas of potential were identified (Resource Planning 1994b).
- Immediately northwest of current subject land, Brayshaw (1984a) surveyed an area for rural residential subdivision. Brayshaw noted low visibility due to dense grass cover across the 50ha property. The study area was not in close proximity to any major watercourses and no Aboriginal sites or areas of potential were identified.
- In 2009 a preliminary assessment was prepared by Kuskie for the Thornton North Stage 2 study area, located North of Raymond Terrace Rd, and west of McFarlanes Rd. The 349ha study area was located immediately northeast of the current subject land. Within the Stage 2 study area, 15 Aboriginal sites had been previously recorded, all of which are stone artefacts (Kuskie 2009). It was found that high potential for stone artefacts occurred in varying density across the study area, in particular within 300 metres of the former Hunter River wetlands (Kuskie 2009). Higher density of evidence was also found to occur along low gradient crests of major ridges and spurs.



- In 1999 test excavations were carried out by Umwelt prior to works for a proposed light industrial estate on the eastern side of Thornton Rd, approximately 2km southeast of the current subject land. Testing recovered 268 artefacts across the subject area, which borders Woodberry Swamp. Artefacts were largely classified as 'flaked pieces' on raw materials including silcrete, tuff, chert and acid volcanic stone. Further excavation resulted in the recovery of 959 artefacts. It was recommended a small conservation zone be established for the area around archaeological excavation unit A360, with Section 90 consent going forward. A two-week salvage excavation followed that was undertaken by Umwelt in an unspecified area of their subject area which yielded 1246 artefacts (Umwelt 1999b).
- In 1994 Kuskie conducted a survey and excavation at Somerset Park subdivision adjacent to Woodberry Swamp, approximately 2km southeast of the current subject land. The initial survey area was across two broad low ridge spurs that descended onto the Woodberry Swamp wetlands. A total of 12 artefact scatters were recorded, consisting of 1234 artefacts, with a range of 2 to 32 artefacts per site. Artefact density occurred notably on simple slopes and basal slopes, and occurred closer to the wetlands. The dominant raw material was silcrete, with flaked pieces and flakes being the main artefact types (Kuskie 1994). In consultation with Mindaribba LALC, it was recommended that an application for a Section 90 be made for the remaining evidence (Kuskie 1994).
- Kuskie (2004a) conducted a survey for the Somerset Park subdivision extension on Raymond Terrace Rd, 1.4km southeast of current subject land. Nine Aboriginal sites were recorded and a total of 33 lithic items identified. Also identified was a Pleistocene age terrace adjacent to Woodberry Swamp, where a silcrete core fragment and a large brown tuff flake was present. Subsequent test excavations were undertaken on the terrace in 2005 by Kuskie and Clarke (2006a). A total of 263 artefacts were recovered from these excavations, with a low-density distribution of artefacts across the terrace (Kuskie and Clarke 2006a). A Section 90 Consent with salvage for the development impact area was recommended.
- Kuskie (2004b) surveyed an area for a proposed rezoning and residential development on Raymond Terrace Road, Thornton, northwest of current subject land. Seven Archaeological sites were identified, including two microlith implements, a silcrete bondi point and a tuff geometric point. Subsequent test excavations here (Kuskie & Clarke 2006b) recovered a total of 262 artefacts. It was assessed that although some depositional mixing may have occurred, some evidence is relatively insitu. Of the raw materials, silcrete was the most common, other materials included tuff, rhyolite, quartz and other volcanics. Microlith and microblades manufacture was noted to be of higher intensity in proximity to wetlands (within 300m), on simple slopes and drainage depressions. Recommendations suggested a Section 90 Consent be sought, which allowed for salvage excavations and surface collection (Kuskie & Clarke 2006b).
- In 2005 an archaeological assessment was conducted by Indigenous Outcomes for the



rezoning of 14.2ha of land on the corner of Government Road and Raymond Terrace Road. The study area is approximately 1.5km east of the current subject land. Two isolated finds were identified within the floodplain outside of the area proposed for rezoning (Indigenous Outcomes 2005).

- More recently several archaeological test and salvage excavations have occurred across the Thornton region. These include salvage excavations at both Waterford County residential subdivision at Thornton North as well as RTA's Thornton Road Bridge Upgrade. The results of these investigations have not been included here but are forthcoming.

In summary, many previous studies have been undertaken within and in the vicinity of the subject land. Sites appear to be generally associated with major creek lines or wetland areas, elevated crests and major ridges, as well as lower slopes and drainage depressions near waterways. Previous studies within the subject land have not identified any Aboriginal sites or areas of archaeological potential. Generally, few Aboriginal objects have been recorded on landforms similar to that of the current subject land (mid slopes). The survival and degree of intactness of archaeological evidence in the area is also related strongly to levels of historical disturbance. Although other Aboriginal sites have been recorded nearby, they are generally in eroded, disturbed contexts with no associated subsurface archaeological potential. On review of the above information, the subject land has a low likelihood of retaining archaeological sensitivity.

Predictive Modeling

The distribution of Aboriginal sites in the East Maitland Hills region is strongly related to bedrock geology and local topographic features, including elevation and the presence of water resources, including swamps. In general, the Thornton area appears to most commonly manifest archaeological evidence as stone artefacts in open surface and subsurface contexts. The absence of sandstone in the subject land precludes the presence of axe grinding groove or shelter sites.

Significant resource zones occur several kilometres to the north and south of the subject land, these being Woodberry and Hexham Swamp as well as the Hunter River. It is likely that these resource areas were focal points for habitation and activity and that the intermediate environments, which include the subject land, were used to supplement resources between these preferred zones but are unlikely to have been as intensively used.

The survival and degree of intactness of archaeological evidence is also related strongly to levels of recent non-Aboriginal activity in any given area. The subject land has been heavily impacted by activities associated with the clay quarry. Large-scale land modification has occurred across the majority of the subject land and in these areas, it can be expected that no archaeological potential survives here. Surviving archaeological evidence in the vicinity of the subject land varies according to levels of historical disturbance, and is often of a low-density and partially disturbed nature, and this



could also be expected to be the case within the portions of the subject land which have been less disturbed by the quarry. Specifically, the following types of archaeological evidence may be anticipated.

- Open campsites are stone artefact scatters and may occur almost anywhere that Aboriginal people lived and travelled in the past. The cultural activity represented by these sites may be associated with hunting or gathering activities, domestic camps, or the manufacture and maintenance of stone tools.
- Isolated artefacts can occur without any associated evidence for Aboriginal activity or occupation. Isolated finds can occur anywhere in the landscape and may represent the random loss, deliberate discard or abandonment of artefacts, or the remains of dispersed artefact scatters. This may also include manuports which are items consisting of raw materials of stone that do not naturally occur within the soil profiles of a given region. Transported onto a site by Aboriginal people from sources elsewhere, these items will have subsequently been discarded before use as flaked or ground stone tools.

Aboriginal Community Consultation

For the purposes of the current Aboriginal Heritage Due Diligence Assessment, consultation was undertaken with the Mindarribba Local Aboriginal Land Council (MLALC) to provide an Aboriginal community perspective on the assessment, particularly in relation to any cultural/historical associations with the subject land. The MLALC has a statutory responsibility “to promote the protection of Aboriginal culture and the heritage of Aboriginal persons”² within its boundaries, which includes the current subject land.

A representative of MLALC (Jason Brown) participated in a site inspection on 7th June 2018. MLALC was asked to comment on both the site inspection as well as any cultural/historical associations with the area considered pertinent to the assessment. The MLALC was in support of the recommendations presented in the current document. The MLALC comment is included as **Attachment 2**.

Site Inspection

An archaeological inspection of the subject land was undertaken in fine weather on Thursday 7th June 2018 by MDCA principal archaeologist Mary Dallas, and MDCA archaeologists Lucinda O'Connor and Tamika Goward in conjunction with MLALC representative, Jason Brown. The entirety of the subject

² Aboriginal Land Rights Act 1983, s52(1)(m).



land was inspected and in combination with the background information reviewed above, provided sufficient information to adequately characterise its archaeological sensitivity and potential.

In general terms, the subject land is situated on a south-east moderate slope near the upper reaches of Francis Greenway Creek. It has been entirely cleared and used intensively as a clay quarry. Regrowth vegetation is extant along the perimeter but there are no mature trees within the subject land. Visibility in the highly vegetated areas is low due to thick low scrub and leaf litter.

The north-western side of the subject land is elevated, while the south-eastern portion is low lying and comprises a drainage depression which feeds into the first order tributary of Francis Greenway Creek on the adjacent property. The low-lying area contains two dams and the vehicle tracks here are raised up by at least 2m (**Figure 5**). The southern perimeter is densely vegetated with regrowth and lantana. This area is also extremely low-lying and flood prone (**Figure 6**). Water pooling could be seen here in cut drainage lines as well as in pitting of the surface.

The quarry comprises a large excavated pit with steep side slopes (**Figure 7**). Various internal haul roads and vehicle tracks are extant around and into the pit. Exposed within the pit and on all vehicle tracks, are clay and shale subsoils (**Figure 8**). Blue metal gravels and introduced sands have been placed along tracks to stabilise them. The current access road is immediately south of the substation along Haussman Drive (**Figure 9**). Evidence of a previous access road, which was relocated due to resident complaints, is present in the highly vegetated south-west corner of the property in the form of bulldozed, uneven, and banked up earth.

A large bund wall surrounds the quarry pit. The bund wall appears to comprise coarse, gravelly subsoils with large introduced sandstone pieces. It is very high where it parallels Raymond Terrace Road to the north and residential land to the south (**Figures 10 & 11**). Regrowth vegetation is established atop the bund walls. In various areas, a drainage ditch runs along the outer portion of the bund wall.



Figure 5. The low-lying drainage area containing two dams in the south-eastern portion of the subject land.



Figure 6. Water pooling in low-lying area along the southern perimeter.



Figure 7. The quarry pit and internal haul roads. View north.



Figure 8. Examples of exposed subsoils and introduced stabilising materials on the internal roads.



Figure 9. Access road from the substation along Haussman Drive. View east toward the quarry pit.



Figure 10. Bund wall which parallels Raymond Terrace Road in the northern portion of the subject land.



Figure 11. Bund wall along the southern side of the quarry.

Figure 12. The furrows in the surface of the south-western portion of the subject land. View north-west.

Conclusions

The current assessment has involved a consideration of the environmental, historical and archaeological context of the subject land, and the results of field inspection, to determine whether any further Aboriginal heritage investigations are warranted in relation to the current proposed development. The subject land has been historically impacted, most notably by the clay quarry, and does not retain subsurface archaeological potential within the area proposed for development. No further Aboriginal archaeological sites or areas of Aboriginal archaeological sensitivity or potential were located within the subject land.

In conclusion, Lot 2 in DP 11453348, has been found to contain no evidence of past Aboriginal use, and very low likelihood for surviving deposits of Aboriginal stone artefacts. With the exception of the recommended actions below, no further archaeological investigations are considered warranted within the subject land in relation to the current proposal.

Recommendations

The following recommendations are based upon:

- the legal requirements and automatic statutory protection provided to items of Aboriginal heritage under the terms of the *National Parks and Wildlife Act 1974* (as amended), where it is an offence to knowingly or unknowingly harm an Aboriginal object;
- the results of the current study which are documented in this report and;
- the views and concerns expressed by the Mindaribba Local Aboriginal Land Council as outlined in this report and in the appended correspondence.



It is recommended that:

1. This report is considered sufficient for the purpose of determining development approval for the proposed development of Lot 2 in DP 11453348.
2. There are no further Aboriginal archaeological management requirements in relation to the current proposed development of the subject land.
3. If any Aboriginal objects or bones suspected of being human are identified during construction, site workers must:
 - a. Not further disturb or move these remains.
 - b. Immediately cease all work at the particular location.
 - c. In the case of suspected human remains only, notify NSW Police. In the case of Aboriginal objects, notify The Office of Environment & Heritage Environment Line on 131 555 as soon as practicable and provide available details of the objects or remains and their location. The Mindaribba Local Aboriginal Land Council should also be notified to assist in the determination of appropriate management for the objects or remains.
 - d. Not recommence any work at the particular location unless authorised in writing by the Office of Environment & Heritage.
4. One copy of this report should be forwarded to the Mindaribba Local Aboriginal Land Council.
5. One copy of this report should be forwarded to:

The Manager
Aboriginal Heritage Information Management System
NSW Office of Environment and Heritage
P.O. Box 1967
Hurstville NSW 2770

If you require any further information, please do not hesitate to contact us.

Yours sincerely,

Tamika Goward
Archaeologist
Mary Dallas Consulting Archaeologists



REFERENCES

- Brayshaw, H. (1984) *Archaeological Investigation at Thornton NSW*. Unpublished report to resource Planning Pty Ltd.
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- Kuskie, P.J. and Clarke, E. (2006a) *Surface Archaeological Investigation of the Proposed Somerset Park Extension at Thornton, Hunter Valley, NSW*. Unpublished Report to Investa Housing Pty Ltd.
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- Resource Planning Pty Ltd (1994b) *Archaeological Survey Lot 1742 DP 634868, parish of Alnwick, Thornton, NSW*. Unpublished Report to PGH Clay Bricks and Pavers Pty Ltd.
- Umwelt (Australia) Pty Ltd (1999) *Archaeological Assessment, Sub-Surface Investigation of Land East of Thornton Road, Thornton, NSW*. Unpublished Report to Hill Top Planners Pty Ltd.



Attachment 1

AHIMS Online Search Records

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : Thornton

Client Service ID : 349065

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0625	Thornton 3 (T3)	AGD	56	371688	6373373	Open site	Valid	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	2141	
38-4-0626	Thornton Substation PAD1	AGD	56	371688	6373373	Open site	Valid	Potential Archaeological Deposit (PAD) : 0		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	1389	
38-4-0779	PAD1 Four Mile Creek South	AGD	56	369900	6372125	Open site	Valid	Potential Archaeological Deposit (PAD) : -		99960
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	2022	
38-4-0780	PAD2 Four Mile Creek Tributary	AGD	56	370350	6371935	Open site	Valid	Potential Archaeological Deposit (PAD) : -		99960
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	2022	
38-4-1028	Segment B PAD	AGD	56	370755	6372758	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u> Searle	<u>Recorders</u>						<u>Permits</u>	2592,2809,2810,3011	
38-4-1292	Thornton Bridge 1	GDA	56	372595	6371690	Open site	Partially Destroyed	Artefact : -		102615,10339 1
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3398,3944	
38-4-1754	VALAIRE LAND 1/A	GDA	56	373723	6373735	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3899	
38-4-1755	VALAIRE LAND 2/A	GDA	56	373522	6373438	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3899	
38-4-1756	VALAIRE LAND 2/B	GDA	56	373722	6373618	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3899	
38-4-1757	VALAIRE LAND 4/A	GDA	56	373727	6373345	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3899	
38-4-1758	VALAIRE LAND 5/A	GDA	56	373571	6373318	Open site	Valid	Artefact : -		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>	3899	
38-4-1759	RPS Thornton AS1	GDA	56	373569	6373835	Open site	Destroyed	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		
38-4-1760	RPS Thornton AS2	GDA	56	373823	6373858	Open site	Destroyed	Artefact : 1		
	<u>Contact</u>	<u>Recorders</u>						<u>Permits</u>		

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Extensive search - Site list report

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Client Service ID : 349065

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-1733	TB16	GDA	56	372495	6375495	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact							Permits	3875	
38-4-1734	TB14	GDA	56	372353	6375445	Open site	Valid	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	Contact							Permits	3875	
38-4-1789	RPS JN 2	GDA	56	373940	6374242	Open site	Destroyed	Artefact : -		
	Contact							Permits	4157	
38-4-1788	RPS JN 1	GDA	56	373954	6374267	Open site	Destroyed	Artefact : -		
	Contact							Permits	4157	
38-4-0804	Thornton North 9 - TN9	AGD	56	371580	6375000	Open site	Valid	Artefact : -		100914
	Contact T Russell							Permits	2113,2509,2880,2881,3341	
38-4-0833	Four Mile Creek PAD	AGD	56	371333	6373772	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	Contact T Russell							Permits	2140	
38-4-0124	Parkwood;	AGD	56	372850	6373300	Open site	Valid	Artefact : -	Open Camp Site	
	Contact							Permits		
38-4-1954	RMS Thornton Bridge Excavation Reburial	GDA	56	372505	6371535	Open site	Valid	Artefact : -		
	Contact							Permits		
38-4-0342	Four Mile Creek 1;	AGD	56	370510	6372100	Open site	Valid	Artefact : -	Open Camp Site	2742,100988
	Contact							Permits	2592,2809,2810,3011	
38-4-0346	Thornton 2;	AGD	56	373750	6371900	Open site	Valid	Artefact : -	Open Camp Site	102568
	Contact							Permits	718,887	
38-4-0347	Thornton 3;	AGD	56	373450	6371700	Open site	Valid	Artefact : -	Open Camp Site	102568
	Contact							Permits	718,887	
38-4-0348	Thornton 4;	AGD	56	373200	6371670	Open site	Valid	Artefact : -	Open Camp Site	102568
	Contact							Permits	718	
38-4-0349	Thornton 5;	AGD	56	373370	6372350	Open site	Valid	Artefact : -	Open Camp Site	102568
	Contact							Permits	718,887	
38-4-0352	Thornton 8;	AGD	56	373850	6372960	Open site	Valid	Artefact : -	Isolated Find	100924
	Contact							Permits	718,887	
38-4-0353	Thornton 9;	AGD	56	373650	6372980	Open site	Valid	Artefact : -	Open Camp Site	100924
	Contact							Permits	718	

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Extensive search - Site list report

Your Ref/PO Number : Thornton

Client Service ID : 349065

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0354	Thornton 10;	AGD	56	373470	6372400	Open site	Valid	Artefact : -	Open Camp Site	100924,102568
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0355	T 1; (Duplicate of 38-4-0399)	AGD	56	372100	6373200	Open site	Valid	Artefact : -	Isolated Find	
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0356	T 2 Beresfield	AGD	56	372500	6373200	Open site	Destroyed	Artefact : -	Open Camp Site	
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0360	Thornton 12;	AGD	56	373750	6371400	Open site	Valid	Artefact : -	Open Camp Site	102568
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0361	Thornton 11;	AGD	56	373700	6372300	Open site	Valid	Artefact : -	Open Camp Site	102568
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0365	Thornton 11;	AGD	56	373700	6372300	Open site	Valid	Artefact : -	Open Camp Site	102568
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0366	Thornton 11;	AGD	56	373750	6371400	Open site	Valid	Artefact : -	Open Camp Site	102568
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0426	FMC3;	AGD	56	370500	6372450	Open site	Valid	Artefact : -	Open Camp Site	100512,100988
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0429	ASH-1;	AGD	56	369900	6372500	Open site	Valid	Artefact : -	Isolated Find	
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0431	FMC 2;	AGD	56	370640	6372720	Open site	Valid	Artefact : -	Open Camp Site	100512,100988
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0432	FMC 4;	AGD	56	370700	6372780	Open site	Valid	Artefact : -	Open Camp Site	100512,100988
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0433	FMC 5;	AGD	56	371160	6372880	Open site	Valid	Artefact : -	Open Camp Site	100512
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0434	FMC 6;	AGD	56	371140	6372800	Open site	Valid	Artefact : -	Open Camp Site	100512
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0435	FMC 7;	AGD	56	371040	6372760	Open site	Valid	Artefact : -	Isolated Find	100512
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0436	FMC 8;	AGD	56	371060	6372140	Open site	Valid	Artefact : -	Open Camp Site	100512
	<u>Contact</u>									
	<u>Recorders</u>									
38-4-0437	FMC 9;	AGD	56	370580	6372180	Open site	Valid	Artefact : -	Isolated Find	100512
	<u>Contact</u>									
	<u>Recorders</u>									

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AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : Thornton

Client Service ID : 349065

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0395	T2; Beresfield	AGD	56	372500	6373200	Open site	Destroyed	Artefact : -	Open Camp Site	2880
	Contact	Recorders			Noleen Curran,Ms.Penny McCardle			Permits		
38-4-0399	T1;	AGD	56	372100	6373200	Open site	Valid	Artefact : -	Isolated Find	2880
	Contact	Recorders			Noleen Curran			Permits		
38-4-0401	Thorn-1;	AGD	56	372200	6371600	Open site	Valid	Artefact : -	Open Camp Site	3060,99973,10 2568,102615
	Contact	Recorders			Iain Stuart			Permits		
38-4-0416	FMC 2;	AGD	56	370380	6372750	Open site	Valid	Artefact : -	Isolated Find	100512
	Contact	Recorders			Liam Dagg			Permits	859	
38-4-0121	None Specified	AGD	56	373000	6373000	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders			P Jones			Permits		
38-4-0123	None Specified	AGD	56	373100	6374900	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders			P Jones			Permits		
38-4-0125	None Specified	AGD	56	372900	6374200	Open site	Valid	Artefact : -	Open Camp Site	
	Contact	Recorders			P Jones			Permits		
38-4-0886	Thornton Beechwood 15	AGD	56	372390	6375260	Open site	Valid	Artefact : 1		103380
	Contact T Russell	Recorders			Mr.Peter Kuskie			Permits	3875	
38-4-0887	Thornton Beechwood 11	AGD	56	372340	6375110	Open site	Valid	Artefact : 1		103380
	Contact T Russell	Recorders			Mr.Peter Kuskie			Permits	3875	
38-4-0888	Thornton Beechwood 6	AGD	56	372275	6374489	Open site	Valid	Artefact : 2		103380
	Contact T Russell	Recorders			Mr.Peter Kuskie,Mr.Peter Kuskie			Permits	2816,2817,3875	
38-4-0889	Thornton North 27 (TN27)	AGD	56	371130	6373600	Open site	Valid	Artefact : 1		100988
	Contact T Russell	Recorders			Mr.Peter Kuskie			Permits	2809,3011,3642	
38-4-0890	Thornton North 1	AGD	56	373125	6373986	Open site	Valid	Artefact : -		
	Contact T Russell	Recorders			Mr.Giles Hamm			Permits	2592,2819	
38-4-0891	Thornton North 3	AGD	56	373185	6373705	Open site	Destroyed	Artefact : -		
	Contact T Russell	Recorders			Navin Officer Heritage Consultants Pty Ltd			Permits	2592,2819,3189,3745	
38-4-0892	Thornton North Site 2	AGD	56	373444	6373951	Open site	Valid	Artefact : 1		
	Contact T Russell	Recorders			Mr.Giles Hamm			Permits	2592,2819	
38-4-0893	Thornton North 4	AGD	56	373105	6373500	Open site	Destroyed	Artefact : -		
	Contact T Russell	Recorders			Mr.Giles Hamm			Permits	2592,2819,3189	
38-4-0849	PAD1 Four mile creek south-2	AGD	56	369900	6372125	Open site	Valid	Artefact : 2		
	Contact Searle	Recorders			Janice Wilson			Permits	2592,2809,2810,3011	

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Extensive search - Site list report

Your Ref/PO Number : Thornton

Client Service ID : 349065

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
38-4-0850	PAD2 Four Mile Creek Tributary -2	AGD	56	370350	6371935	Open site	Valid	Potential Archaeological Deposit (PAD) : 1		100988
	<u>Contact</u> Searle	<u>Recorders</u>	Janice Wilson					<u>Permits</u>	2592,2809,2810	
38-4-0927	Thornton North Site 1 - Lot 20	AGD	56	372943	6374863	Open site	Valid	Artefact : 6		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0928	Thornton North Site 2 - Lot 20	AGD	56	373068	6373723	Open site	Destroyed	Artefact : 1		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>	3745	
38-4-0929	Thornton North Site 3 - Lot 20	AGD	56	373007	6373565	Open site	Destroyed	Artefact : 2		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>	3745	
38-4-0930	Thornton North Site 4- Lot 1	AGD	56	372623	6373439	Open site	Valid	Artefact : 1		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0931	Thornton North Site 1 Lot 1	AGD	56	372597	6373409	Open site	Valid	Artefact : 3		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0932	Thornton North Site 2 Lot 1	AGD	56	372474	6373634	Open site	Valid	Artefact : 2		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0933	Thornton North Site 3 Lot 1	AGD	56	372620	6373595	Open site	Valid	Artefact : 2		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0934	Thornton North Site 4 - Lot 20	AGD	56	372620	6373595	Open site	Valid	Artefact : 3		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0935	Thornton North Site 5 - Lot 20	AGD	56	372960	6373457	Open site	Valid	Artefact : 2		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0936	Thornton North Site 6 - Lot 20	AGD	56	372958	6373278	Open site	Valid	Artefact : 40		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0937	Thornton North Site 7 - Lot 20	AGD	56	372818	6373445	Open site	Valid	Artefact : 1		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0938	Thornton North Site 8 - Lot 20	AGD	56	372843	6373494	Open site	Valid	Artefact : 2		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0939	Thornton North Site 9 - Lot 20	AGD	56	372800	6373535	Open site	Valid	Artefact : 1		
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Giles Hamm					<u>Permits</u>		
38-4-0942	Thornton North 7 (TN7)	AGD	56	371410	6375280	Open site	Valid	Artefact : 20		100914
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Peter Kuskie					<u>Permits</u>	2509,2880,2881,3341	
38-4-0943	Thornton North 3 (TN3)	AGD	56	371950	6375050	Open site	Valid	Artefact : 3		100914
	<u>Contact</u> T Russell	<u>Recorders</u>	Mr.Peter Kuskie					<u>Permits</u>	2880,2881,3341	
38-4-0944	Thornton North 13 (TN13)	AGD	56	371090	6374740	Open site	Valid	Artefact : 18		100914

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Extensive search - Site list report

Your Ref/PO Number : Thornton

Client Service ID : 349065

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
	<u>Contact</u> T Russell	<u>Recorders</u>		Mr.Peter Kuskie				<u>Permits</u>	2468,2592,2880,2881,3341,3642	
38-4-0945	Thornton North 12 (TN12)	AGD	56	371260	6374960	Open site	Valid	Artefact : -		100914
	<u>Contact</u> T Russell	<u>Recorders</u>		Mr.Peter Kuskie				<u>Permits</u>	2880,2881,3341	
38-4-0881	Thornton North 26 (TN26)	AGD	56	371000	6373790	Open site	Valid	Artefact : 5		
	<u>Contact</u> T Russell	<u>Recorders</u>		Mr.Peter Kuskie				<u>Permits</u>	2468,2592,3642	
38-4-0882	Thornton North 21 (TN21)	AGD	56	371040	6374100	Open site	Valid	Artefact : 6		
	<u>Contact</u> T Russell	<u>Recorders</u>		Mr.Peter Kuskie				<u>Permits</u>	2468,2592,3642	
38-4-0883	Thornton North 20 (TN20)	AGD	56	371040	6374400	Open site	Valid	Artefact : 1		100914
	<u>Contact</u> T Russell	<u>Recorders</u>		Mr.Peter Kuskie				<u>Permits</u>	2880,2881,3341,3642	
38-4-0884	Thornton North 2 (TN2)	AGD	56	371950	6375000	Open site	Valid	Artefact : 1		100914
	<u>Contact</u> T Russell	<u>Recorders</u>		Mr.Peter Kuskie				<u>Permits</u>	2880,2881,3341	
38-4-0978	Thornton North PAD 1	AGD	56	371564	6374950	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u> Searle	<u>Recorders</u>		Ms.Penny McCardle				<u>Permits</u>	2509	
38-4-1643	Lot 2 Govt Road Thornton	GDA	56	373775	6374010	Open site	Partially Destroyed	Artefact : -, Potential Archaeological Deposit (PAD) : -		
	<u>Contact</u>	<u>Recorders</u>		Mr.Giles Hamm				<u>Permits</u>	3725	

Report generated by AHIMS Web Service on 04/06/2018 for Tamika Goward for the following area at Datum :GDA, Zone : 56, Eastings : 370000 - 374000, Northings : 6371500 - 6375500 with a Buffer of 0 meters. Additional Info : Assessment. Number of Aboriginal sites and Aboriginal objects found is 84

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

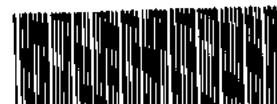
[✓] New recording

[] Additional Info



National Parks and Wildlife Service

Box 1967, Hurstville NSW 2220. Tel: (02) 585 6444
Standard Site Recording Form Revised 5/88



38-4-0399

NPWS Code

1:250,000 map sheet: NEWCASTLE

[3,5]

AMG Grid reference

Full reference - please include leading digits

250K
372100 mE
25K

250K
6373200 mN
25K
5/6

Scale of map used for grid reference
Please use largest scale available

[✓] 25K, 50K (preferred) [] 100K [] 250K

1:25K, 50K, 100K map name: BERESFIELD

HEAD OFFICE USE ONLY:

NPWS Site no: 38-4-399Site types: ISOLATED FIND

Accessioned by: _____ Date: _____

Data entered by: [Signature] Date: 13 MAR 1993Owner/Manager: A+J CAMP.Address: LOT 182 RAYMOND TERRACE RD, THORNTON.Site name: TILocality/property name: LOT 182 DP 792071NPWS District: HUNTERRegion: CENTRAL

Reason for investigation

ARCHAEOLOGICAL SURVEY FOR E.I.S.

Portion no:

Parish:

Photos taken? No.

How many attached?

How to get to the site (refer to permanent features, give best approach to site eg. from above, below, along cliff.
(Draw diagram on separate sheet.)

FROM THE HOUSE, FOLLOW THE VEHICLE TRACK INTO THE SCRUB. CONTINUE, CROSS THE CREEK, FOLLOW THE RISE IN TERRAIN. THE TRACK BENDS TO THE LEFT AND IS LARGELY DISTURBED AS A RESULT OF WATER LOGGING. THE SITE IS ON THE EDGE OF THIS BEND, BEFORE YOU FOLLOW THE BEND.

Other sites in locality? NIL.

Site Types include:

Are sites in NPWS Register?

Have artefacts been removed from site? YESWhen? 12 JULY 1993By whom? RICKI-JO GRIFFITHSDeposited where? MINDARIBBA LALC.Is site important to local Aborigines? NO

Give contact(s) name(s) + address(es) RICKI-JO GRIFFITHS, MINDARIBBA LALC.
420 HIGH ST, MAITLAND, 2320.

Contacted for this recording? YES.

(Attach additional information separately) If not, why not?

Verbal/written reference sources (including full title of accompanying report).

ARCHAEOLOGICAL SURVEY OF LOT 1, DP 634 868 AND PART OF LOT 182
DP 792071, THORNTON, NSW.

NPWS Report Catalogue #

C-2880

Checklist:
surface visibility,
damage/disturbance/
threat to site

Condition of site: GOOD / FAIR (SNAPPED).

Recommendations for management & protection (attach separate sheet if necessary)

ARTEFACT WAS REMOVED AND DEPOSITED AT THE LAND COUNCIL OFFICE.
NO FURTHER ACTION REQ'D. NO THREAT TO SITE.

Site recorded by: N. CURRAN.Date: 12 JULY 1993.

Address/institution: RESOURCE PLANNING P/L
PO BOX 388
EAST MAITLAND 2323

+

SITE POSITION & ENVIRONMENT

OFFICE USE ONLY: NPWS site no: 38-9-399

1. Land form a. beach/hill slope/ridge top, etc: **TERRACE** b. site aspect: c. slope: **0-10°**
d. mark on diagram provided or on your own sketch the position of the site: e. Describe briefly:

SNAPPED FLAKED PIECE LOCATED ON A VEHICLE TRACK.

- f. Local rock type: **PERMIAN TOMAGO** g. Land use/effect: **PRIVATE**.

2. Distance from drinking water: **50m** Source: **SHALLOW CREEK**.

3. Resource Zone associated with site (estuarine, riverine, forest etc): **OPEN WOODLAND**.

4. Vegetation: **SPOTTED GUM - IRONBARK WOODLAND**.

5. Edible plants noted: **NIL**.

6. Faunal resources (include shellfish): **NIL**.

7. Other exploitable resources (river pebbles, ochre, etc): **NIL**.

Site type:

**ISOLATED
FIND.**

DESCRIPTION OF SITE & CONTENTS.

Note state of preservation of site & contents Do NOT dig, disturb, damage site or contents.

1 x snapped flaked piece 2-1cm x 1.5cm x 0.6cm (LWH)

No evidence of use wear or retouch.

Black chert (duff)

Located on a track (vehicular), not in situ

CHECKLIST TO HELP:
length, width, depth,
height of site, shelter,
deposit, structure,
element eg. tree scar,
grooves in rock.

DEPOSIT: colour,
texture, estimated
depth, stratigraphy,
contents-shell, bone,
stone, charcoal, density
& distribution of these,
stone types, artefact
types.

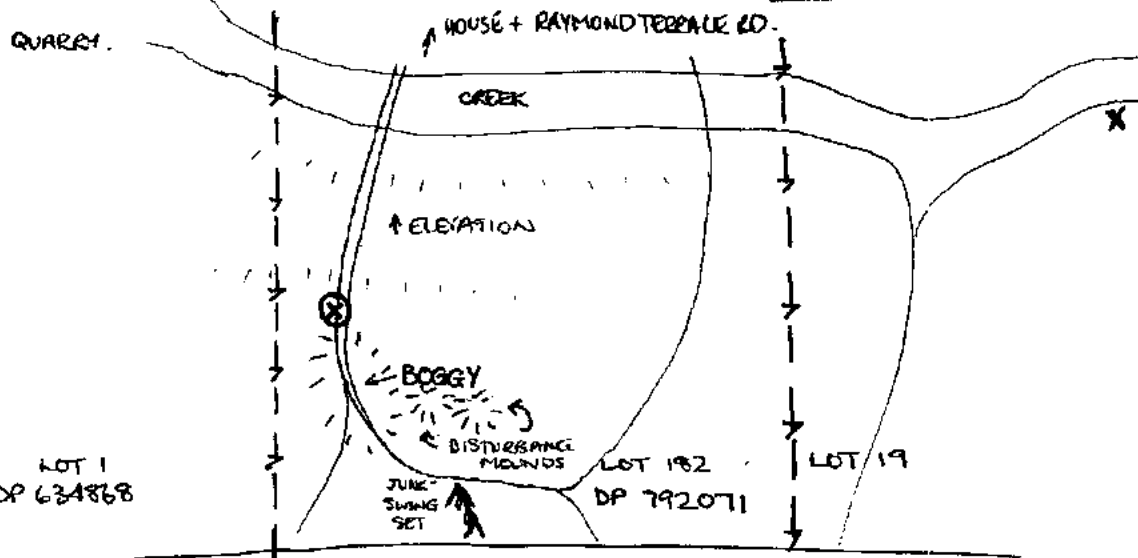
ART area of surface
decorated, motifs,
colours, wet, dry
pigment, technique of
engraving, no. of
figures, sizes,
patination.

BURIALS: number &
condition of bone,
position, age, sex,
associated artefacts.

TREES: number, alive,
dead, likely age, scar
shape, position, size,
patterns, axe marks,
regrowth.

QUARRIES rock type,
debris, recognisable
artefacts, percentage
quarried.

OTHER SITES EG.
structures (fish traps,
stone arrangements,
bora rings, mia mias),
mythological sites, rock
holes, engraved groove
channels, contact sites
(missions massacres
cemeteries) as
appropriate



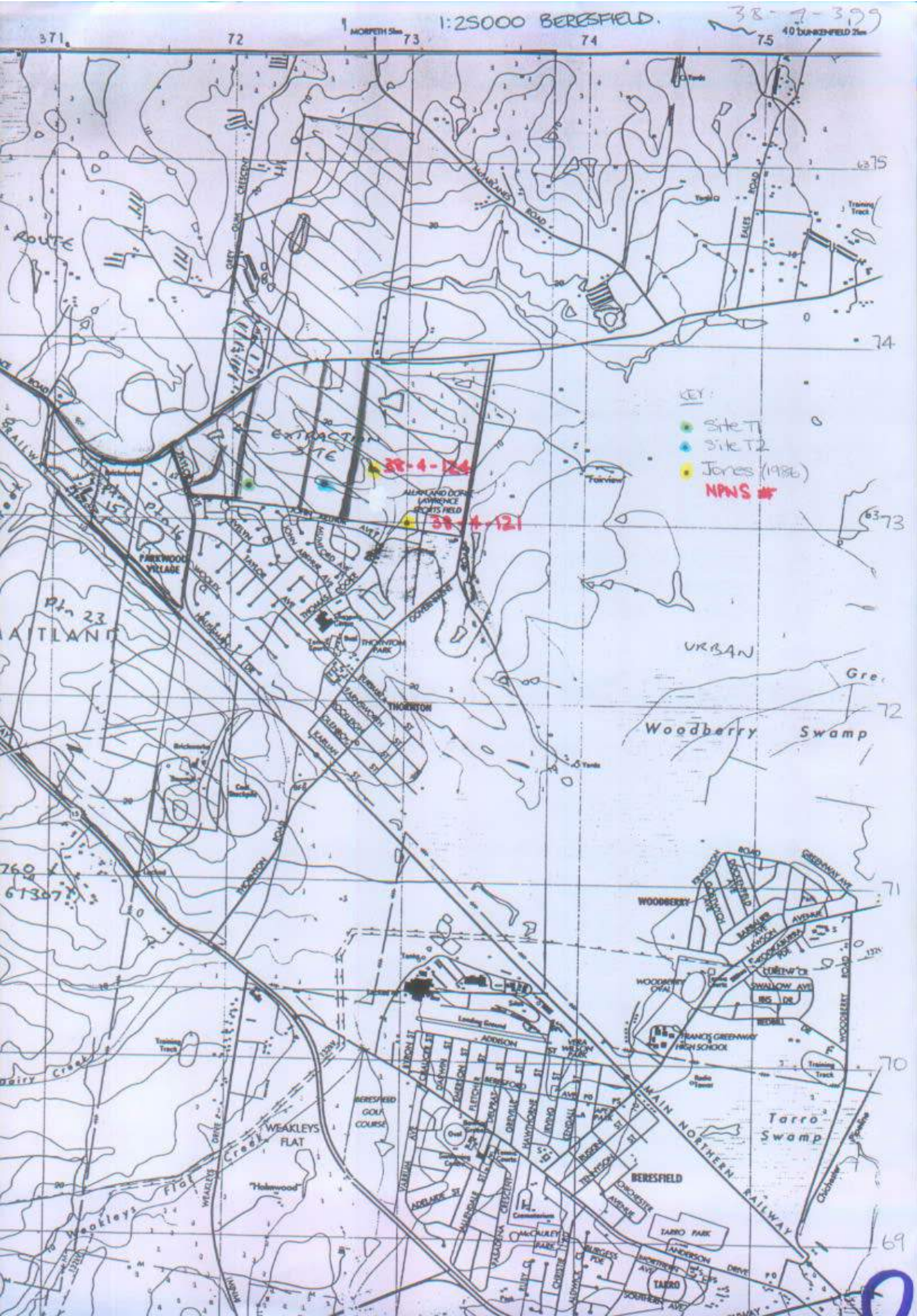
RESIDENTIAL

⊗ ISOLATED FIND.

X OPEN ARTEFACT SITE LOCATED (Separate site card).

Attach sketches etc. eg. plan & section of shelter, show relation between site contents, indicate north, show scale.

Attach annotated photos (stereo where useful) showing scale, particularly for art sites.





Attachment 2

Community Consultation Record



Tamika Goward <tamika.goward@gmail.com>

draft due diligence report 107 haussman drive thorton

1 message

Jason Brown <cultureandheritage@mindaribbalalc.org>
To: "tamika.goward@gmail.com" <tamika.goward@gmail.com>
Cc: "tamika@mdca.com.au" <tamika@mdca.com.au>

Thu, Jul 5, 2018 at 2:50 PM

To Tamika

Mindaribba LALC agree with the draft due diligence assessment report.

Kind Regards,

Jason Brown

Culture and Heritage | Mindaribba Local Aboriginal Land Council

[1A Chelmsford Drive, Metford](#) NSW 2323

PO Box 401, East Maitland NSW 2323

p: 02 4015 7000 | **f:** 02 4934 8544 | **e:** cultureandheritage@mindaribbalalc.org

A social, health and learning hub for our Aboriginal community.



I acknowledge and respect the traditional lands of all Aboriginal people, and I respect Elders past & present.

I ask all those that walk, work & live on traditional Aboriginal lands to be respectful of culture & traditions.

Attachment C: Additional Information

Environmental Background

The Project Area is located on sloping land. The north east corner and south west corners are at a higher elevation, forming a ridge around the north and western boundaries. The land then slopes gradually down towards the middle of the lot, possibly forming an ephemeral drainage line as this downward slope leads to a first order stream in the eastern side of the Project Area. This stream flows into the Woodberry Swamps, which is a resource rich and culturally sensitive area.

The Project Area has been previously used as a quarry. Historical images from the 1960s indicate that the landscape is relatively undisturbed, but with more recent images from the 1980s and 1990s, the area was increasingly cleared and excavated for quarrying activity. However, the southern edge and north east corner appear to have been undisturbed and are therefore more likely to retain archaeological evidence of Aboriginal occupation.

Heritage Background

Aboriginal people have been in Australia for at least 50,000 years, with potential evidence for earlier occupation. Aboriginal occupation in the region has been dated to 11,050 years before present which precedes the rise of sea levels around 6000 years before present ⁵.

Evidence of Aboriginal occupation in the area may take the form of artefacts, scarred trees, grinding grooves, art sites, shelters, potential archaeological deposits (PADs) and middens.

Other Related Heritage Reports

Other related heritage reports are summarised below.

Curran (1993) Archaeological Survey, Lot 1742 DP634868 and Lot182 DP 792071, Thornton, NSW

An archaeological survey was completed in the lot immediately east of the Project Area on behalf of PGH Clay Bricks and Pavers to assess the impact of a new clay extraction pit. The survey area identified two surface artefact sites; an artefact scatter (AHIMS #38-4-0395) and isolated find (AHIMS #38-4-0399). The scatter consisted of 25-30 artefacts of silcrete and chert and was located on a creek bank ⁶. It was suggested that there was a possibility of further subsurface material ⁷. The isolated find was not found in situ, but on an exposed piece of track. It consisted of a snapped flake made of Nobby's Tuff. There was no evidence of an intact archaeological deposit ⁸. The isolated find, which plots as being within the current Project Area, was salvaged by Mindaribba Local Aboriginal Land Council ⁹. The AHIMS database also indicates that the scatter, located approximately 425 east of the Project Area, has also been destroyed.

⁵ Val Attenbrow, *What's Changing: Population Size or Land-Use Patterns? The Archaeology of Upper Mangrove Creek, Sydney Basin* (Canberra: Australian National University Press, 2006).

⁶ Noleen Curran, "Archaeological Survey, Lot 1742 DP634868 and Lot182 DP 792071, Thornton, NSW," Archaeological Survey Report (Metford, NSW: Resourcing Planning Pty Ltd, 1993), 11.

⁷ Curran, 11.

⁸ Curran, 10.

⁹ Curran, 10.

Kuskie (2015) Waterford County Eastern Sector, Chisholm, Aboriginal Cultural Heritage Assessment

Archaeological test excavations were undertaken for the development of the Waterford County Estate, located opposite the Project Area on the northern side of Raymond Terrace Road. In total 220 0.5 x 0.5 m test pits were excavated. The investigation identified 12 Aboriginal sites, along with 8 surface artefacts and 242 sub-surface artefacts retrieved during excavations. The assemblage was dominated by silcrete (80.6%), but also included tuff, quartz, chert and acidic volcanic. Artefact types included flakes, flake portions, cores, backed artefacts, and retouched artefacts. The highest concentrations of artefacts were found within 300 m of the wetlands, suggesting that the proximity to wetlands was a primary factor in the nature and extent of human occupation in the area ¹⁰. Three sites were considered of low to moderate significance (AHIMS 38-4-1727, #38-4-1728, #38-4-1729) and nine of low significance ¹¹.

Biosis (2018) 530 Raymond Terrace Road, Thornton: Archaeological Report

Biosis conducted a field survey and test excavation for a proposed subdivision on Lot 20 DP10419, 530 Raymond Terrace Road, Thornton, approximately 650 m east of the Project Area. The survey identified 11 previously unrecorded sites including 1 PAD, 5 isolated finds and 5 artefact scatters. 10 AHIMS sites were recorded in the project area, however not all could be located in the survey. AHIMS site #38-4-0124 was found to not be in the survey area based on the site card and required an updated site location ¹². The investigation included the excavation of 37 test pits over 19 transects. Only four test pits contained artefacts, however these were able to identify the extent of three low density artefact sites. Artefact materials included silcrete, mudstone, and chert, with evidence that some pieces of mudstone and silcrete had been heat treated. The most common artefact types were flakes (44%) and cores (33%) ¹³. In contrast, surface artefacts were much more likely to be angular fragments. Overall the results indicated that the potential for subsurface deposits in the area was low due to high levels of disturbance from previous land use including quarrying recreation and erosion ¹⁴. It was recommended that surface artefacts be salvaged and that further archaeological work is required for where sites cannot be avoided.

¹⁰ Peter J. Kuskie, "Waterford County Eastern Sector (Part Lot 812 DP 1171131, Part Lot 7270 DP 1187087, Lot 1 DP1020710 and Lot 43 DP 1009594, Chisholm, Lower Hunter Valley, New South Wales: Aboriginal Cultural Heritage Assessment," Test Excavation (Hughes, ACT: South East Archaeology, 2015), 173.

¹¹ Kuskie, 184–85.

¹² Ashleigh Keevers-Eastman, Anthea Vella, and Taryn Gooley, "530 Raymond Terrace Road, Thornton: Archaeological Report," Archaeological Report (Newcastle, NSW: Biosis Pty Ltd, Report Prepared for Thornton Brentwood, 2018), 45.

¹³ Keevers-Eastman, Vella, and Gooley, 89.

¹⁴ Keevers-Eastman, Vella, and Gooley, 62.

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