

Table 1. Summary of usewear and residues on stone artefacts from the Narrabeen site.

OON No.	Type ¹	Location	Refit with no.	Stone material	Length (mm)	Width (mm)	Thick. (mm)	TCSA ²	Retouch	Damage	Usewear	Residues ³	Hafting	Use ⁴	Function ⁵
1	Backed flake	Backed blade, vertebral column		Pink-red silcrete	17.4	10	8	40	Bi-direct. backing	Broken tips.	Rounding on backed edge; none on chord, use scar at proximal tip; cf. barb	Grey residue on backed edge	Probably hafted. Grey residue is possibly resin	3	Impact, probably projectile or club barb
2	Backed flake	Around skull		Grey quartzite	21	11	5	27.5	Bi-direct. backing	No breakage	Rounding, polish, striae	Dark smears cellulose, starch on backed edge	Probably hafted. Dark smears are possibly resin.	3	Piercing and slicing skin. Not from a projectile.
3 ⁶	Backed broken flake (tip)	Around skull	4	Pink silcrete	10	6.3	4.2	13.2	B-direct. backing	Crushed tip	Crushing at tip		Complex fracture, probably from	3	Likely damage from projectile tip or club impact
4	Backed flake		3	Pink silcrete	16	10	11	55	B-direct. backing	Steps from break	Scaring on chord	Plant tissue, charcoal, carbonate	hafting configuration	3	
5	Backed flake	West side vert		Red silcrete	17.4	7.7	5.8	22	Uni-direct.		Impact scar on tip		Probable	3	Likely damage from projectile tip or

¹ Type refers to presence of backing and technological classes

² Tip Cross sectional area after Shea 2006

³ Observations are from incident light only. Residues have not yet been removed for study under transmitted light microscopy

⁴ Use refers confidence of interpretations, as follows: 0 (no traces of use), 1 (possible), 2 (probable) and 3 (definite)

⁵ Function refers to the likely cause of dominant usewear. Tan indicates protruding oblique impact; gold indicates dominant function not from hard impact

⁶ Grey shading indicates conjoin set

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		column							backing initiated on ventral						club impact
6	Backed fragment	Underneath skull	8	Red silcrete	13.3	8.4	5.3	22.3	Bi-direct. backing but rare	Break is probably along 'old' fracture caused by backing.	Probable impact scar.	Impacted yellow tissue same colour as bone fragments.	Probable	2	Likely damage from projectile tip or club impact
8	Fragment (tip)	Underneath skull	6	Red silcrete	6	4.6	2.4	na					2		
7	Backed flake	Excavated around skull		Grey quartzite	18.8	8.6	4.6	19.8	Bi-direct. backing near tip		Rounding and step scar on tip	Dark residues on backed edge	Dark residue is possibly hafting resin	3	Uncertain, tip used
9	Backed flake			Quartzite	14.2	6.5	3.6	11.7	Bi-direct. backing		Possible impact scar			1	Uncertain, tip used
10	Bipolar piece	Around skull		Quartz	15.7	7	4.4	15.4	Backing not clear	Bipolar crushing and scars	Uncertain	Carbonised plaques – probably not from use		1	Uncertain, possible use of tip
11	Backed flake	Vertebral column		Quartzite	15.1	10.4	4	20.8	Bi-dir. backing, not very steep	Tip broken	Scars associated with broken tip		Probable	3	Hard impact, possibly from projectile or club barb
12	Backed flake			Red silcrete	15	7.5	5.6	21	Uni-dir. backing,	Tip broken	Rounding and longitudinal			3	Uncertain, probably not hard impact

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									initiated on ventral		striations near tip				
13	Backed fragment	Dry sieved		Quartzite	19.7	10	4.2	21	Bi-dir. backing	Tip crushed	Scarring on chord, tip crushed	Black residue on backed edge	Uncertain	2	Uncertain, possible use of tip
14	Backed fragment	Dry sieved	15	Red silcrete	11	7.6	3.8	14.4	Bi-dir. backing	Tips broken	Rounding, bending scars along chord	Sediment, unidentified particles	Probably hafted	3	Hard impact possibly from projectile or club; also considerable damage along chord
15	Backed fragment (tip)	Inside vertebral canal. Dry sieved	14	Red silcrete	4.5	3.6	2	na	Bi-dir. backing	Missing fragments.	Impact scar cf. barb			3	
16	Backed flake	Between L1 and L2		Red silcrete	18.8	8.8	3.8	na	Bi-dir. backing	Tip broken	Impact scar cf. barb, scarring		Probably hafted	3	Hard impact possibly from projectile or club
17	Fragment			Grey quartzite	7.5	5.6	4.1	na	Possible backing, uni-dir.	Broken	Impact damage unclear			1	Uncertain, possible use of tip