



# **SALVAGE EXCAVATIONS AT TEL QASHISH (TELL QASIS) AND TELL EL-WA'ER (2010–2013)**

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Table 19.6. The Groundstone Assemblage from Tel Qashish.

	Type	Permit	Area	Square	Locus	Basket	Local stratum	Locus description	Figure	Blank type	Plan	Section	L mm	W mm	H mm	Weight gr	Diameter working surface mm	Depth working surface mm	Type of working surface	No. of working surfaces	Base	Perforation D mm	Perforation Depth mm	Perforation Manufacture	Manufacture	Material	Condition	Comments	
1	Grinding stone?	5881	A	D6	107	1016	1	Top of stone pavement		Block	?	?	56+	69+	62				Flat?	1	?				Grinding, polishing?	Basalt	Fragment		
2	Heavy pounder	5881	A	C5	136	1124	2	Removal of stone pavement	19.3.3	Block	Circular	Ovoid	130	134	78+				Slightly convex?	1					Grinding, polishing?	Chalk	Broken		
3	Bowl	5881	A	D5	104	1095	1	Top of stone pavement	19.4.2	Block	Circular	Hemispherical	94+	23+	85+				Concave deep	1	?				Grinding, pecking	Limestone	Fragment	Body and rim	
4	Small pounder	5881	B?	D24	207	2013	1	Colluvial top soil		Nodule	Ovoid	Ovoid	43	39	41				Covex	?					?	Limestone	Complete		
5	Mortar	5881	C	Y29	347	3395	1	Top soil	19.2.1	Block	Ovoid	Rectangle irregular	435	280	225		145	75		Concave deep	1	Flat irregular				Grinding, pecking	Limestone	Broken	
6	Grinding Stone	5881	C	X29	389	3390	1	Grumic top soil		Block	Ovoid	Plano-convex	320+	270+	135				Flat	1	Round				Grinding, pecking	Basalt		Lime incrustations	
7	Mortar	5881	C	ZI29	387	3398	1	Grumic top soil	19.2.2	Block	Trapezoid	Rectangle irregular	350	230	175		120	35		Concave shallow	1	Flat irregular				Grinding, pecking	Limestone	Complete	
8	Tournette	5881	C	V29	319	3041	1	Top soil	19.4.1	Block	Circular	Plano-convex	290	160+	45				Flat	1	Pivot	45	30	drill?	Grinding, pecking	Vesicular basalt	Broken	Very polished surface	
9	Lower Grinding Stone	5881	C	X29	389	3397	1 2	Grumic top soil covering two grinding slabs	19.1.1	Block	Rectangular	Rectangle irregular	350+	230	125				Flat	1	Round				Grinding, pecking	Vesicular basalt	Broken		
10	Lower Grinding Stone	5881	C	Y29	347	3394	1	Top soil	19.1.2	Block	Ovoid	Ovoid	295	185	54				Slightly convex?	1	Round				Grinding, pecking	Vesicular basalt	Complete		
11	Bowl	5881	C	N28 28	392	3384	1	Balk		Block	Circular?	?	86+	32+	59+		65+	59+		Concave deep	1	?			Grinding, pecking	Basalt	Fragment	Hemishperical bowl?	
12	Bowl	5881	C	T29 U29	397	3369	2	Small stones north of installation	19.4.4	Block	?	?							?	1?	Pedestaled				Grinding, polishing?	Basalt	Fragment	Chalcolithic	
13	Bowl	5881	C	T28	362	3216	1	Dark black top soil		Block	Circular?	?	48+	16+	27+				Concave deep	1	?				Grinding	Basalt	Fragment	Body fragment	
14	Grinding stone	5881	C	T29	355	3200	2	Removing stones, searching for wall		Block	?	?	66+	53+	28+				?	?	?				?	Vesicular basalt	Fragment		
15	Grinding stone	5881	C	R28 S28	374	3284/1	1	Dark black top soil		Block	?	?	56+	42+	32+				?	?	?				?	Vesicular basalt	Fragment		
16	Pounder	5881	C	R28 S28	374	3284/2	1	Dark black top soil		Cobble	Ovoid	Ovoid	47+	58	33+				Convex	1?					Polishing?	Flint	Fragment		
17	Small pounder	5881	C	L29	307	3012	1, 2	Dark black top soil on top of spread of small stones		Nodule	Ovoid	Ovoid	40	34	32				?	?					?	Limestone	Blank	Still attached to rock	
18	Bowl	5881	C	ZA29	350	3191	1	Top soil		Block	Circular	?	49+	20+	66+				Concave deep	1	?				Grinding	Basalt	Fragment	Body and rim	
19	Bowl	5881	C	T29	317	3128	1	Top soil		Block	Circular	?	45+	15+	43+				Concave deep	1	?				Grinding	Basalt	Fragment	Body fragment	



	Type	Permit	Area	Square	Locus	Basket	Local stratum	Locus description	Figure	Blank type	Plan	Section	L mm	W mm	H mm	Weight gr	Diameter working surface mm	Depth working surface mm	Type of working surface	No. of working surfaces	Base	Perforation D mm	Perforation Depth mm	Perforation Manufacture	Manufacture	Material	Condition	Comments
20	Worked cobble	5881	C	O29	310	3015	1	Dark black top soil		Cobble	Ovoid	Ovoid	51+	45	23			Flat irregular	1?						Polishing?	Quartzolite?	Broken	
21	Grinding stone	5881	C	U29	318	3297	1	Top soil		Block	?	?	95+	45+	20+			?	?						Grinding	Vesicular basalt?	Fragment	
22	Upper grinding stone	5881	D	ZQ29	408	4060	1	Top soil	19.1.4	Block	Ovoid	Plano-convex	155+	123	54			Slightly convex	1						Gringing, pecking	Basalt	Broken	
23	Lower grinding stone	5881	D	ZQ29	408	4049	1	Top soil		Block	?	Rectangle irregular	166+	122+	62+			Slightly concave	1	Flat irregular					Grinding pecking	Basalt	Fragment	
24	?	5881	D	ZR29	404	4015	2	Between two layers of limestones		?	?	?	49+	44+	17+			?	?						Grinding, polishing	Basalt	Fragment	
25	Worked cobble	5881	D	ZM29	400	4000	2	Limestone spread		Pebble	Elongated ovoid	Elongated	60+	31	15			?	?						Polishing?	Limestone	Broken	
26	Bowl	6149	E North	M57	5050	50697	2B	Removing pottery and stone vessel	19.5.1	Block	Circular	Trapezoid	290	290	105		260	80	Concave deep	1	Flat				Gringing, pecking	Basalt	Complete	Restoration needed
27	Spindle whorl	5992	E South	K54	5002	50036	1	Top soil	19.3.5	Block	Circular	Ovoid	39	20+	23			Conical	1		14	23	drill?	Grinding, polishing?	Basalt?	Broken		
28	Handle?	6149	7	M55	5051	50545	1	Top soil		?	?	?	54+	26+	25+			?	1?	?					Grinding pecking	Limestone	Fragment	Vessel?
29	Pounder?	6149	E North	K60	5122	50604/1	2A	Top of stone pavement		Nodule?	Ovoid	Ovoid	55	54	62+			Flat irregular	1?						Grinding	Chalk	Broken	
30	Pounder	6149	E North	K60	5122	50604/2	2A	Top of stone pavement		Nodule	Ovoid	Ovoid	60	41	38			Convex	2?						Grinding	Flint?	Complete	
31	Hammerstone	6149	E North	K60	5122	50604/3	2A	Top of stone pavement		Nodule	Circular?	Circular?	57	53+	28+			Convex	6?						Grinding, pecking	Limestone	Fragment	
32	Pounder	6149	E North	K57	5066	50499	2A	Top of stone surface		Nodule	Ovoid	Ovoid	52	49	44			Convex	1?						Grinding, pecking	Flint?	Complete	Scars
33	Pounder	6149	E North	L59	5090	50614	1	Cleaning		Nodule	Ovoid	Ovoid	51	47	44			Convex	1?						Grinding, pecking	Flint?	Complete	Scars
34	Hammerstone	6149	E North	N63	5060	50420	1	Top soil	19.3.2	Nodule	Circular	Circular	57	56	52			Convex	1?						Grinding, pecking	Flint?	Complete	Scars
35	Spindle whorl	6149	E North	N59	5101	50659	2A	Top of stones	19.3.7	Block	Circular	Ovoid irregular	60+	55	25			Biconical with rim	1		9	25	drill?	Grinding, engraving	Chalk	Broken	Fabrication marks, scars	
36	Worked pebble	6149	E North	M61	5058	50402	1	Top soil		Pebble	Ovoid	Ovoid	46	33	20			Slightly convex?	2?						Polishing?	Limestone	Complete	
37	Incised flake	6149	E North	N63	5074	50536	2A	Top of stones		Block	Trapezoid	Irregular	98	67	35			?	?						Flaking, engraving	Chalk	Complete?	Incision marks on dorsal
38	Perforated chunk/flake	6149	E North	N62	5059	50413	1	Top soil		Cobble	Irregular square	Irregular	75	70	20			Oval	1		19 X 16	6	perforated?	Flaking, perforating	Flint	Complete	Weight?, chunk?	
39	Bowl	6149	E North	M55	5065	50434	1	Top soil	19.4.6	Block	?	?	88+	32+	70+			Circular?	1?	Pedestaled					Grinding, pecking	Basalt	Fragment	Chalcolithic
40	Pounder	6149	E North	L57	5068	50447	2A	Top of stones		Nodule	Circular	Circular	41	40	23+			Slightly convex	1?						Grinding, pecking	Limestone	Broken	
41	Bowl	6149	E North	N59	5101	50659/2	2A	Top of stones		Block	Circular	?	94+	25+	74+			Concave deep	1	?					Grinding, pecking	Basalt	Fragment	Rim
42	Upper grinding stone	6149	E North	M56	5132	50641	2A	Top of stones		Block	?	?	105+	83+	23+			Slightly concave	1						Gringing, pecking	Vesicular basalt	Fragment	Flake

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43	Grinding stone?	6149	E North	M56	5132	50615	2A	Top of stones		Block	?	?	114+	99+	47+			?	1?	Round?					Grinding	Basalt	Fragment	Burnt?, Restoration needed
44	Lower grinding stone	6149	E North	N63 O63	5152	50717	1, 2	Balk	19.1.3	Block	Rectangular	Elongated	265+	230+	45			Concave shallow	1	Round					Grinding, pecking	Vesicular basalt	Broken	
45	Lower grinding stone	6149	E North	L61	5141	50691	2	South of W517		Block	?	Elongated	255+	180+	45			Flat	1	Round					Grinding, pecking	Vesicular basalt	Broken?	
46	Bowl?	6149	E North	N60	5093	50539	2	West of W509		Block	?	?	122+	33+	148+			Deep concave	1	?					Grinding, pecking	Basalt	Fragment	Body fragment
47	Bowl	6149	E North	N57	5080	50587	2A	Top of stones		Block	Circular?	?	92+	20+	93+			Deep concave	1	?					Grinding, pecking, polishing	Basalt	Fragment	Body fragment
48	Lower grinding stone	6149	E North	M60	5127	50610	2A/B	Between walls W510 and W511		Block	Ovoid	Plano-convex	170+	140+	65			Slightly concave	1	Round					Grinding, pecking	Vesicular basalt	Broken?	
49	Bowl	6149	E North	L58	5113	50601	2	Between walls W512 and W515		Block	Circular	?	73+	22+	69+			Concave deep	1	?					Grinding, pecking, polishing	Basalt	Fragment	Rim
50	Lower grinding stone	6149	E North	K57	5066	50527	2A	Top of stone surface		Block	?	?	134+	81+	46+			Slightly convex	1	?					Grinding, pecking	Vesicular basalt	Fragment	
51	Bowl	6149	E North	L55	5096	50524	1	Top soil	19.4.5	Block	Circular	?	148+	63+	85+		116+	55	Concave shallow	1	Pedestalled				Grinding, pecking, polishing	Basalt	Fragment	Rim, body
52	Small pounder	6149	E North	L60 L61	5144	50671	1	Balk	19.3.4	Nodule	Ovoid	Ovoid	27	23	24			Flat irregular	1?						Grinding	Basalt?	Complete	
53	Lower grinding stone?	6149	E North	L58	5113	50549/1	2	Between walls W512 and W515		Block	?	?	145+	80+	67+			Flat irregular	1	Round irregular					Grinding, pecking	?	Fragment	
54	Pounder?	6149	E North	L58	5053	50498	1	Top soil		Block	Circular	?	79	73+	58			Flat irregular?	1?						Grinding	Vesicular basalt	Broken	
55	Lower grinding stone?	6149	E North	K57	5066	50431	2A	Top of stone surface		Block	?	Plano-convex	124+	97+	69			Flat	1	Round					Grinding	Vesicular basalt	Fragment	
56	Upper grinding stone?	6149	E North	L58	5113	50549/2	2	Between walls W512 and W515		Block	?	?	107+	55+	66			Flat?	1						Grinding	Vesicular basalt	Fragment	
57	Bowl	6149	E North	N55	5099	50516	2A	Top of stones		Block	Circular?	?	62+	23+	68+			Concave deep	1	?					Grinding, polishing	Basalt	Fragment	Body fragment
58	Rubbing stone	5992	E South	I64	5021	50334		Top soil		Cobble	Ovoid	Plano-convex	75+	57+	33+			Flat	1						Grinding, pecking	Quartzolite?	Fragment	
59	Lower grinding stone	5992	E South	O61	5006	50082		Top soil		Block	?	Plano-convex	88+	84+	42+			Flat	1	Round					Grinding, pecking	Vesicular basalt	Fragment	
60	Upper grinding stone	6149	E North	L56	5051	50405	1	Top soil	19.1.6	Block	Rectangular	Plano-convex	145+	135	60			Flate	1						Grinding, pecking	Basalt	Broken	

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61	Multiple tool	6149	E North	N57	5080	50514	2A	Top of stones		Cobble	Ovoid	Ovoid	64	46	43				Slightly convex	6					Grinding, pecking?	Basalt	Complete	Pounding and rubbing	
62	Lower grinding stone	6149	E North	M61 N61	5155	50700	1, 2	Balk		Block	?	Rectangle irregular	195+	125+	70				Flat	1	Round irregular					Grinding	Vesicular basalt	Fragment	
63	Lower grinding stone	5992	E South	H62	5033	50240	1	Top soil		Block	?	?	104+	84+	38+				Flat	1	Round					Grinding, pecking	Basalt	Fragment	
64	Hammerstone	5992	E South	M57	5025	50206	2B	Removing layer of sherds		Nodule	Squared	Squared	53	53	49				Slightly convex	6						Grinding	Basalt	Broken	
65	Mace head/ weight?	5992	E South	K54	5045	?	2B	Removing sherds		Cobble	Circular	Ovoid	32+	19+	33				Slightly convex	1		15+	31			Grinding	Basalt	Broken	
66	Spindle whorl	5992	E South	M57	5025	50223	2B	Removing layer of sherds	19.3.6	Pebble	Circular	Ovoid	29+	17+	11				Biconical	1		9.0	10.0			Grinding, polishing	Basalt	Broken	
67	Bowl	5992	E South	I64	5021	50167	1	Top soil	19.5.5	Block	Circular	?	145	75+	45+		95+	20+	Concave deep	1	Flat					Grinding	Basalt	Fragment	Base
68	Bowl	5992	E South	M57	5025	50219	2B	Removing layer of sherds		Block	Circular	?	40+	15+	65+				Concave deep	1	?					Grinding	Basalt	Fragment	Rim
69	Grinding stone	5992	E South	O64	5016	50102	1	Top soil		Block	?	?	65+	50+	25+				?	?	?					?	Vesicular basalt	Fragment	
70	Lower grinding stone?	5992	E South	M57	5025	50217	2B	Removing layer of sherds		Block	?	?	95+	90+	50+				Flat	1?	?					Grinding	Basalt	Fragment	
71	Tournette?	5992	E South	M57	5050	50121	2B	Removing pottery		Block	Circular?	?	115+	70+	30+				Concave deep?	1	Flat					Grinding, polishing	Basalt	Fragment	Base
72	Upper grinding stone	5992	E South	J63	5049	50393	2B	Removing sherds floor	19.1.5	Block	Ovoid	Plano-convex	165	145	90+				Slightly convex	1						Grinding, pecking	Vesicular basalt?	Complete	
73	Lower grinding stone	5992	E South	J63	5049	40394	2B	Removing sherds floor		Block	Rectangular irregular	Rectangle irregular	440	280	10.5				Concave shallow	1	Round					Grinding	Vesicular basalt	Broken	
74	Bowl	5992	E South	H65	5036	50231/1	1	Top soil		Block	?	?	31+	12+	33+				Concave deep	1						Grinding	Basalt	Fragment	Rim
75	Bowl	5992	E South	H65	5036	50231/2	1	Top soil		Block	?	?	34+	25+	24+				Concave deep?	1	Pedestaled					Grinding	Basalt	Fragment	Pedestalled ring
76	Spindle whorl	5992	E South	H62	5033	50339	1	Top soil		?	Circular	Ovoid	30+	16+	18				Biconical	1		11+	16			Grinding	Basalt	Fragment	
77	Grinding stone?	5992	E South	J64	5048	50380	2	Outside silo 5047		Block	?	?	38+	34+	36+				Flat	1						Grinding	Basalt	Fragment	
78	Worked cobble	5992	E South	K54	5002	50047	1	Top soil		Pebble	Ovoid	Ovoid	53	41	13				?	?						Polishing?	Limestone	Complete	Groovings
79	Bowl	5992	E South	H60	5031	50329	1	Top soil		Block	Circular	?	42+	20+	71+				?	1						Grinding	Basalt	Fragment	
80	Bowl	5992	E South	K54	5002	50007	1	Top soil	19.5.3	Block	Circular	?	88+	26+	120+				Concave deep	1	?					Grinding, polishing	Basalt	Fragment	Rim plus body
81	Bowl	5992	E South	O61	5006	50056	1	Top soil		Block	Circular	?	65+	20+	42+				Concave deep	1						Grinding, polishing	Basalt	Fragment	Rim

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82	Perforated stone	5992	F	O29	6016	60035		Bedrock under top soil		?	Ovoid	Ovoid	22	19+	10				Irregular	1		5	8	drill?	Grinding?	Limestone	Broken	Natural perforation?
83	Mace head/weight?	5992	F	J26	6026	60128	2A	Floor west of W600	19.3.9	Block	Circular	Circular	44	42	32				Biconical	1		16	32	drill?	Grinding, polishing?	Basalt	Complete	Burnt?, Restoration needed
84	Hammerstone	5992	F	O34	6009	60085		Bedrock under top soil	19.3.1	Nodule	Ovoid	Squared	60	54	47				Slightly convex	6?					Pecking	Flint?	Complete	
85	Lower grinding stone	5992	F	J24	6059	60341	2A	Room		Block	?	Plano-convex?	110+	120+	45+				Concave shallow	1	Round				Grinding	Vesicular basalt	Fragment	Plus numerous small fragments
86	Bowl	5992	F	I26 I27 J26 J27	Top soil	60017	1	Top soil	19.4.3	Block	Circular	Hemispherical	90+	61+	59+				Concave deep	1	Flat				Grinding, pecking	Basalt	Broken	
87	Hammerstone	5992	F	Q29	6018	60124/1	2A	Bedrock under top soil		Nodule	Circular	Conus	67	66	56.0				Flat	3?					Grinding, pecking	Flint	Complete	
88	Small pounder	5992	F	Q29	6018	60124/2	2A	Bedrock under top soil		Nodule	Ovoid	Ovoid	34	32	30				Slightly convex	1					Grinding	Limestone	Complete	
89	Lower grinding stone	5992	F	I26	6013	60026	2A	Floor		Block	?	?	101+	85+	36+				Concave shallow	1	Round				Grinding	Vesicular basalt	Fragment	
90	Whorl?	5992	F	O34	6009	60011		Bedrock under top soil		Pebble?	Circular	Ovoid	38+	17+	26				Biconical	1		18+	25		Grinding	Basalt	Broken	
91	Bowl	5992	F	Q29	6018	60124/3	2A	Bedrock under top soil	19.5.2	Block	Circular	?	64+	27+	107+				Concave deep	1	?				Grinding	Basalt	Fragment	
92	Weight?	5992	F	J27	6044	60309		East of W601	19.3.8	Cobble	Circular	Ovoid	40	40	27				Biconical	1		18	27		Grinding	Basalt?	Complete	
93	Whetsone	5992	F	O29	6016	60093		Bedrock under top soil		Cobble	Trapezoid	Trapezoid	28+	27+	15+				Flat	6?					Grinding, polishing	Basalt	Fragment	
94	Upper grinding stone	5992	F	I31	6038	60266		Bedrock under top soil		Block	Ovoid	Plano-convex	170+	128	46				Flat	1					Grinding, pecking	Basalt	Broken	
95	Hammerstone	5992	F	S30	6020	60071		Bedrock under top soil		Nodule	Circular	Circular	75	73	75+				Flat?	1?					Grinding	Flint	Complete	Limestone cortex
96	Nozzle	5992	F	?	6011	60077		?	19.6.1	Block	Ovoid	Trapezoid	37	28	40				Concave	1					Grinding, polishing	Chalk	Complete	
97	Bowl	5992	F	?	6049	60239		West of W608	19.5.4	Block	Circular	?	15+	!5+	8+				Concave deep	1	Flat				Grinding, polishing	Basalt	Fragment	