## APPENDIX: OSL FIELD AND LABORATORY RESULTS FROM RAMAT BARNE'A

## NAOMI PORAT

Site	Lab code (EZZ)	Description	Depth (m)	K (%)	U (ppm)	Th (ppm)	Ext. α (µGy/a)	Ext. β (µGy/a)	Ext. $\gamma$ + Cosmic ( $\mu$ Gy/a)	Dose rate (µGy/a)	No. of discs	O-D (%)	De (Gy) (CAM)	Age (ka) (CAM)*
97	20	South side, between two stones	0.55	0.55	1.8	4.6	8	713	334	1055±32	16/19	47	3.5±0.2	3.3±0.2
97	21	North side, between bedrock and lower stones	0.50	0.21	1.6	1.8	6	382	320	707±27	18/19	21	6.8±0.3	9.7±0.6
97	22	Stones circle, below a stone	0.30	0.56	1.7	4.4	6	702	352	1063±33	17/19	71	0.9±0.1	0.8±0.1
102	23	Below a stone	0.75	0.27	1.5	2.4	6	432	362	800±30	18/19	27	10.4±0.5	13.0±0.8
102	24	Above a paving stone at the base of the fill	0.60	0.45	1.9	4.9	9	665	380	1053±33	16/18	30	6.6±0.3	6.2±0.3
103	25	Outside, between the lowest stones	0.85	0.48	2.3	4.4	10	724	296	1030±32	15/19	36	8.9±0.3	8.6±0.4
103	26	Inside, between the lowest stones	0.40	0.67	1.9	5.3	9	824	282	1151±33	17/19	33	5.3±0.3	4.8±0.3
105	27	North side, base of fill, between stones	0.40	0.66	1.9	5.9	10	831	308	1149±34	16/19	35	6.2±0.4	5.4±0.3
106	28	Fill, between stones	0.35	0.42	1.6	3.6	7	575	310	892±29	14/18	29	4.0±0.2	4.5±0.2
108	29	Below stones	0.85	0.51	1.9	4.9	9	705	354	1068±33	18/19	22	9.2±0.3	8.7±0.4
108	30	Between two low stones	0.60	0.54	1.8	4.5	8	704	354	1066±33	16/19	20	5.1±0.2	4.8±0.2

Notes: Quartz, grain size  $88-125 \mu m$ . Depth includes stone cover. Time-averaged water contents were estimated at  $3\pm 2\%$ , reflecting aridity and seasonal variations. Alpha and beta dose rates were calculated from the radioactive elements and the gamma and cosmic dose measured in the field using a portable gamma counter. O-D (over dispersion) is a measure of the scatter within the sample. De average and errors were calculated using the central age model (Galbraith et al. 1999).

\*Minimum ages are marked in bold, and maximum ages-in italics.

## Refrence

Galbraith R.F., Roberts R.G., Laslett G.M., Yoshida H. and Olley J.M. 1999. Optical Dating of Single and Multiple Grains of Quartz from Jinmium Rock Shelter, Northern Australia: Part I, Experimental Design and Statistical Models. *Archaeometry* 41:339–364.