THE ARCHAEOLOGY OF
RUTLAND WATER
The Archaeology of Rutland Water:

Excavations at Empingham in the Gwash Valley, Rutland, 1967-73 and 1990

by

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Rear Cover: Empingham I Early Anglo-Saxon Cemetery (Site 3), Grave 5.

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Note: Most of the text was prepared during the period 1991-3 and although some up dating has taken place during the final editing stages, it should be borne in mind that many of the specialist reports will not incorporate the results of fieldwork and research published since.

N. J. Cooper
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BIBLIOGRAPHY

Aberg, N., 1926 *The Anglo-Saxons in England during the early centuries after the invasion*. Cambridge.


Booth, P. and Green, S., 1989 'The nature and distribution of certain pink, grog-tempered vessels', *Journal of Roman Pottery Studies* 2, 77-84.


Clark, J. T., 1966 'The distribution of Lucanus cervus (L.) (Col., Lucanidae) in Britain', *Entomologists' Monthly Magazine*, 102, 199-204.

Clark, R., 1999 'The Roman pottery' in A. Connor and R. Buckley *Roman and Medieval Occupation at Causeway Lane, Leicester*. Leicester Archaeology Monograph 5, 95-164, Leicester.

Clay, P., 1987 *An excavation at Burley Road, Oakham*, in P. Liddle (ed.), *Archeology in Leicestershire and Rutland*.

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Coles, J.M., 1987


Coope, L., forthcoming a The Lithics from Launde, Leicester.

Coope, L., forthcoming b ‘The lithics’ in N. Finn A Multi-period site at Eye Kettleby, Melton, Leicester.


Cooper, N. J., forthcoming ‘The Early Anglo-Saxon pottery’ in N. Finn A Multi-period site at Eye Kettleby, Melton, Leicester.


Cunliffe, B. W., 1974 Iron Age Communities in Britain. RKP, London.


Doutour, O., 1986 ‘Enthesopathies (lesions of muscular insertion) as indicators of the activities of Neolithic Saharan
Wessex Archaeology Monograph, 97-112.
Marney, P.T., 1989
Meek, J., 1998 ‘Whitwell, Main Street’ Rutland Record 18, 368.
Osborne, P. J., 1971 An insect fauna from the Roman site at Alcestre, Warwickshire, Britannia 2, 156-165.
Oswald, F., 1936-7 Index of Figure-Types on Terra Sigillata ("Samian Ware"). Liverpool.
Oswald, F., and Davies Price, T., 1920 An Introduction to the Study of Terra Sigillata. London.
Phythian-Adams, C., 1980 ‘The emergence of Rutland and the making of the realm’, Rutland Record 1, 5-12.
Saxon Period. BAR (British Series) 87, 67-73, Oxford.
Wakely, J., 1996 'Skeletal analysis' in L. Cooper 'A Roman cemetery at Newark St., Leicester', Trans. Leicestershire Archaeol. and Hist. Soc. 70, 33-44.
Whitwell, J. B. and Dean, M. J, 1966 'Great Casterton', East Midlands Archaeological Bulletin 8, 4-6.