# ANCIENT MONUMENTS LABORATORY

# **REPORT** 2470

SERIES/No CONTRACTOR	
Philip Taylor 7.2.7 AUTHOR	8
Gryme's Dyke, Colamester 10 BC to 43 AD. The base TITLE rampart	

.

GRYME'S DYKE COLORESTER. 10 B.C. to 43 A.D. THE BASE OF THE RAMPART.

ر. بر بر

> REPORT SENT TO PHILIP CRUMMY, COLCHESTER ARCHAEOLOGICAL TRUET.

### GRYME'S DYKE --- COLCHESTER

Gryme'; Dyke is a rambart built M 10 B.C. (see fig. 1). The rambart overlies material called coverloam. The origin of this material is in question, although it is thought to have originated by wind deposition. The purpose of this report is to investigate the material immediately beneath the rampart, in order to ascertain evidence of soil formation in the coverloam prior to its construction. Following 4 site visit, a monolith was sent to the Institute of Archaeology, London, for analysis. (see fig. 2).

#### DESCRIPTIONS

- Layer 1). Strong brown (7.5YR 5/2) sandy loam. Stones and pebbles 80%. Stores up to 6cm. diameter. Structureless, roots common.
  - 2(. Brown (10YR 4/3) loam. Very thin, less than bem. and very sparsely distributed.

5 M 2

A second to be a second to be

- Reddish yellow (7.5YR 6/6) sandy loam with a pour coarse subangular structure. Firm consistency when wet. Stones 15%.
- Reddich yellow (7.5YR 6/6) sandy loam. Stones and pebbles 55%. Very poor, fine subangular structure. Weak consistency when wet.
- 5). Reddish brown (7.5YR 7/6) sandy loam. Stones 15%. Coarse blocky structure. Moderate consistency when wet.

## ORGANIC MATTER AND DH VALUES.

	Organic matter (mgs./100gms.)	н
Layer 1	37	5.5
2	61	-
3	44	5.7
4	29	5.3
5	18	5.2

N.B. The pH value of layer 2 is absent due to the small amount of material available for analysis.

...

. .

1

#### DISCUSSION

Layer 2 contains the most organic matter and represents the original groundsurface (subsequently covered by layer 1) which, due to its extreme thinness, has either been heavily compressed or removed. Layers 3,4 and 5 are progressively lower in organ's matter and are rather acid in reaction. Layer 5 is relatively low in stone content and may be partially worm sorted. However, layer 5 shows a similar stone content, although, above it, layer 4 contains 55% stones. The vertical variability of the stone content may, therefore reflect the original stone content of the coverloam and not worm sorting, although it is not possible to be certain.

The texture of the profile as a whole indicates good drainage, as reflected by the strong ferric iron colours of layers 3,4 and 5. The subangular/blocky structure of these layers indicates a soil B horizon.

It is probable, therefore that layers 2 to 5 represent the A and B horizons of the original soil. The good drainage, low pH and low

organic content indicate a low base status brown earth type of soil. Also, the organic content of the A horizon (layer 2) is low relative to normal brown earth soils (brown earth soils which I have analysed contain up to 60% more organic matter). This suggests that the topsoil would have a high mineral content of low binding capacity. Such a topsoil, if vegetation was sparse, would be quite easily eroded in windy periods and thus explain its extreme thinness. However, it is not possible to be conclusive. Alternatively, the topsoil may have been deliberately removed prior to the building of the rampart or heavily compressed.

Apoli 96

Institute of Archaeology, London.



FINNKE 2

