

*Thames Water Utilities*

*Sewage Treatment Works, Reading, Berks.*

*NGR SU 706 705*

**ARCHAEOLOGICAL WATCHING BRIEF REPORT**

**Project Code RESTW 00**

**Oxford Archaeological Unit**

*March 2000*

## **Summary**

*In January/February 2000 the Oxford Archaeological Unit (OAU) undertook a watching brief at the New Reading Sewage Treatment Works, Reading, Berks. NGR SU 706 705 (Figure 1). 49 geotechnical trial pits were monitored archaeologically (Figure 2). No archaeologically significant deposits were noted in these geotechnical trial pits, but an impression was gained of the depth and survival of alluvium across the site indicating that, although there has been some truncation, it is possible that archaeological deposits if present could survive both above and below the alluvium.*

## **1 Introduction**

The watching brief was commissioned by Thames Water Utilities. It was undertaken to a WSI written by the OAU and agreed by Thames Water Utilities. The proposed development comprises the construction of a new sewage treatment plant to the west of the existing Manor Farm Sewage Works (Figure 1).

Before the new Reading Sewage Treatment Works is built, a concrete slurry cut-off wall will be constructed. This process will entail a temporary lowering of the water table to below the top of the gravel. The change to the water table will severely affect any waterlogged archaeological deposits that may exist.

The contaminated sludge fill covering most of the site is to be removed, lowering the ground level. If all the sludge and landfill were to be removed there is the possibility that some of the alluvium might be removed and any archaeological deposits sealed below or within it might be affected.

After remediation there will also be some ground disturbance in parts of the site in the form of construction work, ranging in depth from 4 m to 7 m (from present ground levels), where all archaeological features below or within the alluvium would be affected.

## **2 Background**

The archaeological background to this watching brief has been the subject of a separate desk study (New Reading Sewage Treatment Works Archaeological Desk Based Assessment) the results of which are summarised below.

The site itself has produced no archaeological evidence. The proposed development site lies to the north of and in close proximity to areas of high archaeological potential as defined by the OAU during excavations and evaluations on the site of Reading Business Park, immediately to the south-west and south of the development site, Moore's Farm and Hartley Court Farm to the south of the M4 and most recently Little Ley Park to the south east of the development site. The excavation of these sites showed that the area immediately around the proposed development contains rich and significant archaeological remains, dating to the Neolithic, Bronze Age, Iron Age and Romano-British periods.

According to historic maps of the late 18<sup>th</sup> Century the development site was in use as meadowland and crossed by several small streams. Other than the Sewage Farm laid out in the 19<sup>th</sup> century little other development took place until the second half of the 20<sup>th</sup> Century. During the 1960s the wall heights of the sludge beds were raised and some landfill began in disused areas. Later waste was used to raise the walls further which provided scope for further deposition of up to 3.0 m, but sludge deposition had ceased by the end of the 1970s.

Geologically the site is over Alluvium which covers River Gravels overlying Reading Formation sands and clays, under which is the Upper Chalk. The tops of bunds around the site reach a height of 42.00 m OD falling to 39 m OD around the sludge lagoons.

### **3 Aims**

The primary aim of the watching brief was to record any archaeological remains exposed on site during the course of the geotechnical operation to established OAU standards (Wilkinson 1992), in order to secure the preservation by record of any archaeology, the presence and nature of which could not be established in advance. A secondary aim was to quantify and characterize the nature and survival of any archaeological remains observed, and to provide further details on the presence/absence and thickness of the alluvium. Thirdly it is anticipated that the combined results of the watching brief will inform the Environmental Assessment currently being prepared and better inform future strategies for mitigation of archaeological deposits in the development area.

### **4 Methodology**

The 49 geotechnical trial pits observed (Figure 2) were all excavated by JCB and measured 2 m by 3 m. Depths of the trial pits ranged from 2 m to 5 m. Within the constraints imposed by Health and Safety considerations the deposits were recorded in section. Written records were also made on proforma sheets and a colour slide and monochrome print record were kept. Spoil was inspected for finds.

### **5 Results**

In the 49 geotechnical trial pits excavated under archaeological supervision the deposits were broadly characterised and their occurrence recorded. From this an impression of deposits across the whole site was gained. The broad stratigraphy of the site is outlined below and represented in Figures 3 and 4. A summary table showing all deposit depths by pit number can be found in Appendix 1. Detailed records of each pit sequence are contained within the archive.

The sequence was underlain by natural gravel (5) comprising light bluey-grey fine-coarse sand and coarse subrounded flint gravel. This deposit was only reached in the area to the north of the northern bund and in certain low-lying areas around the southern sludge lagoon.

Overlying the natural gravel was the alluvial deposit (4) comprising a firm clayey/silt ranging from dark blue/grey to mid greeny grey occasionally with frequent mollusc shell, and a c. 20% sand component. It also occasionally contained bands of peaty organic material (trial pits 35,47,48, and 49) c. 0.15 m thick.

At a depth of 4 m in trial pit 26 a deposit (6) of tenacious light brown silty clay with subangular 15% flint fragments and less than 1% of ceramic flecks (section 26, Figure 3), was noted overlying the alluvium. This is likely to be the buried soil.

In the majority of trial pits the alluvium was directly sealed by dumped sewage sludge (3) comprising a friable silty peat, infrequent flint fragments and modern CBM.

Overlying the sewage sludge was a deposit of dumped refuse and landfill (2). This included demolition debris, domestic, clinical, and industrial waste. Generally Layer 2 consists of all these types of dumped material mixed together, however around trial pits 25 and 28 this deposit appeared to have been made up solely of waste wood.

Sealing the landfill was a layer of made ground (1). This was made up of a firm, often compacted, hardcore (demolition debris and waste building materials), forming the present ground surface and the make-up layers of haulage roads and bunds. Layer 1 was found across most of the site except in the low lying areas occupied by the lagoons.

No archaeological features were identified and no finds were retrieved.

## 6 Discussion

The sequence of deposition, after the laying out of the Sewage Farm in the 19<sup>th</sup> century, appears to be broadly similar across the whole development site. The occurrence of sewage sludge in the trial pits would suggest that the area covered by the sewage beds is enclosed by the northern and western bunds. Within this area the survival of the alluvium beneath the sewage sludge is variable, there has been some fairly heavy truncation but this is quite localised around trial pits 2, 27, and 28 which are the only trial pits where natural gravel was reached but no alluvium was seen. The other trial pits enclosed by the northern and western bunds where alluvium was not encountered, reflects the fact that the depth of trial pits did not allow for alluvium to be reached. In some cases the alluvium contained bands of peaty organic material, an important indicator of past environmental conditions. In trial pit 26 evidence from the spoil heap would suggest the presence of a buried soil horizon or feature fill (6). This would indicate that, in this area at least, the amount of truncation of the alluvium could be much less and therefore the potential for archaeology surviving is increased.

Outside the bunds either dumped refuse (2) or made ground (1) lies directly on top of the alluvium, in the same way that the sewage sludge (3) does inside the bunds. Across the site this would indicate that, although the extent of the truncation prior to the deposition of the over-lying deposits cannot be quantified, extensive areas of alluvium still remain and archaeological deposits, if present, could still survive.

## References

Wilkinson, D. (ed) 1992. *Oxford Archaeological Unit Field Manual*, (First edition, August 1992).

Spandl, K. Unpublished Client Report. *New Reading Sewage Treatment Works Archaeological Desk Based Assessment*.

## Appendix 1 Individual Test Pit details

Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
<b>OAU Test Pit 1 (TP 27)<sup>1</sup></b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	4m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	4m	1m+
<b>OAU Test Pit 2 (TP 148)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.8m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.8m	2.9m
5	<b>Natural Gravel</b> - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	3.7m	0.9m+
<b>OAU Test Pit 3 (TP 120)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.8m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.8m	2.9m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	3.7m	0.2m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	3.9m	0.4m+
<b>OAU Test Pit 4 (TP 96)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.8m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.8m	2m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	2.8m	1.6m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	4.4m	0.4m+
<b>OAU Test Pit 5 (TP 95)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.3m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.3m	0.25
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	0.55m	3.8m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	4.35m	0.38m+
<b>OAU Test Pit 6 (TP 8)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	4m+
<b>OAU Test Pit 7 (TP 9)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	3.9m

<sup>1</sup> OAU re-numbered test pits 1-49. The original Enviro Aspinwall numbers have been added here in brackets.

Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	3.9	0.8m+
<b>OAU Test Pit 8 (TP 11)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	3.6m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	3.6m	1.25m+
<b>OAU Test Pit 9 (TP 12)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	4.45m+
<b>OAU Test Pit 10 (TP 15)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	4.7m+
<b>OAU Test Pit 11 (TP 14)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	4.80m+
<b>OAU Test Pit 12 (TP 17)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	4.2m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	4.2m	0.2m+
<b>OAU Test Pit 13 (TP 53)</b> Top of test pit = 41.03m AOD			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	1.7m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	1.7m	2m
4	Alluvium - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey, also band of light brown organic silt.	3.7m (37.33m AOD)	0.75m+
<b>OAU Test Pit 14 (TP 18)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	1.8m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	1.8m	3.2m+
<b>OAU Test Pit 15 (TP 45)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	2.5m+
<b>OAU Test Pit 16 (TP 47)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	2m+
<b>OAU Test Pit 17 (TP 25)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	1.9m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	1.9m	2.1m+
<b>OAU Test Pit 18 (TP 87)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	2m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	2m	1.8m

Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	3.8m	0.4m+
<b>OAU Test Pit 19 (TP 69)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	2m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	2m	1.8m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	3.8m	0.3m+
<b>OAU Test Pit 20 (TP 28)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste, demolition debris and wood	1m	1.8m+
<b>OAU Test Pit 21 (TP 16)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	2.3m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	2.3m	1.9m+
<b>Test Pit 22 (TP 19)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.7m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	1.7m	2.3m+
<b>Test Pit 23 (TP 24)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.85m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	1.85m	2.9m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	4.75m	0.5m+
<b>Test Pit 24 (TP 101)</b> Top of test pit =			
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	0m	1.9+
<b>Test Pit 25 (TP 91)</b> Top of test pit = 39.65m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.2m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	1.2m	1.7m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	2.9m (34.75m AOD)	0.1m+
<b>Test Pit 26 (TP 92)</b> Top of test pit = 40.75m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	2.2m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	2.2m	1.75m
6	<b>Buried Soil</b> - comprising a tenacious light brown silty clay with ceramic flecks	3.95m (36.8m AOD)	0.25
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	4.2m (36.55m AOD)	0.2m+
<b>Test Pit 27 (TP 108)</b> Top of test pit = 41.32m AOD			
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	0m	2.6m
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	2.6m	1.4m

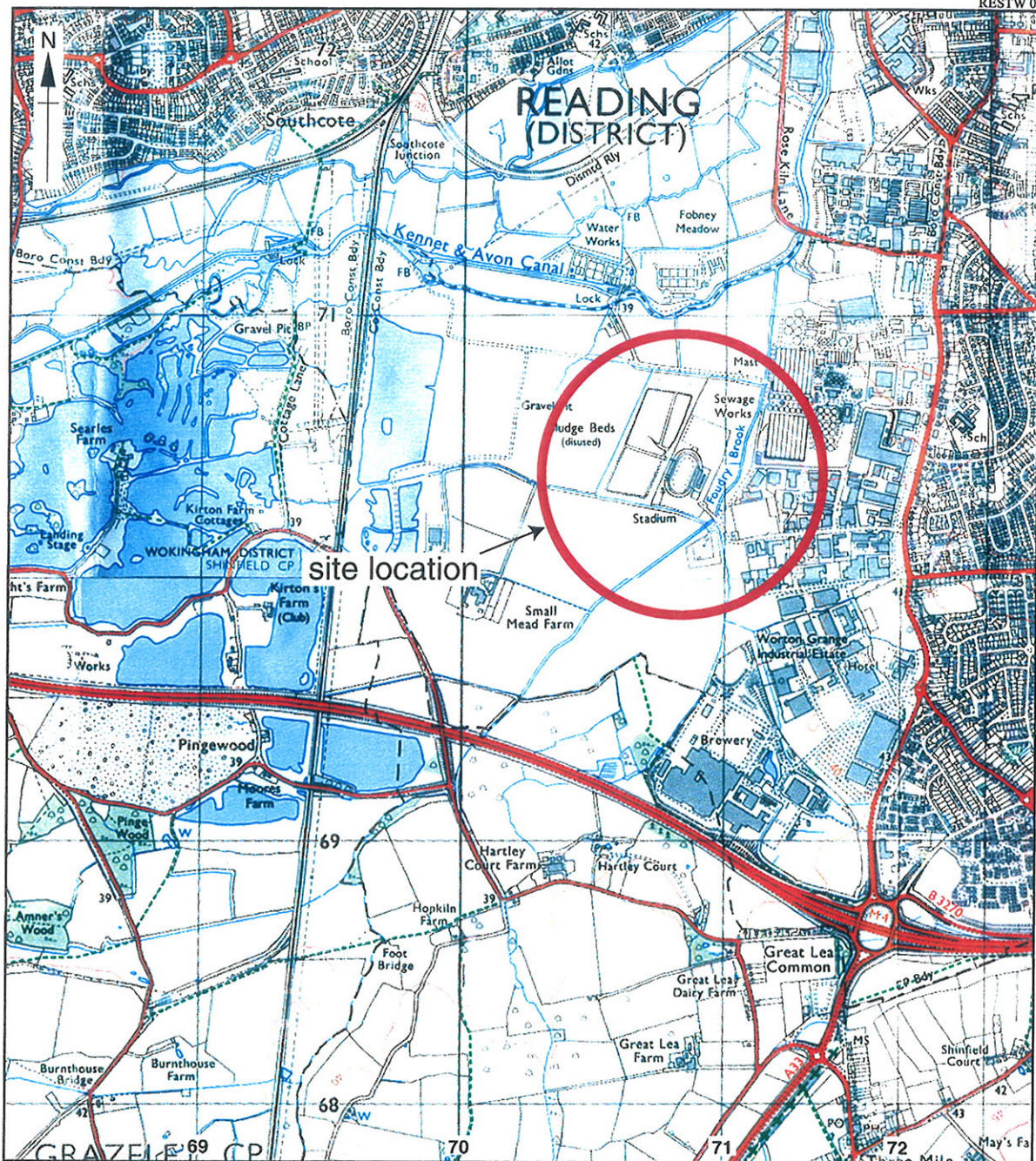


Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
5	Natural Gravel - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	4m (37.32m AOD)	0.8m+
<b>Test Pit 28 (TP 115)</b> Top of test pit = 40.49m AOD			
3	Modern Sewage Sludge - comprising a friable silty peat	0m	2.1m
1	Modern Made-ground - comprising hard-core, road make-up etc	2.1m	1.65m
5	Natural Gravel - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	3.75m (36.74m AOD)	0.4m+
<b>Test Pit 29 (TP 123)</b> Top of test pit = 41.25m AOD			
3	Modern Sewage Sludge - comprising a friable silty peat	0m	2.4m
1	Modern Made-ground - comprising hard-core, road make-up etc	2.4m	0.6m
3	Modern Sewage Sludge - comprising a friable silty peat	3m	1m
4	Alluvium - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	4m (37.25m AOD)	0.2m+
<b>Test Pit 30 (TP 138)</b> Top of test pit =			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	3.6m
3	Modern Sewage Sludge - comprising a friable silty peat	3.6m	0.4m+
<b>Test Pit 31 (TP 139)</b> Top of test pit = 41.09m AOD			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	1.5m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	1.5m	0.2m
3	Modern Sewage Sludge - comprising a friable silty peat	1.7m	2.5m
4	Alluvium - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey also band of light brown organic silt.	4.2m (36.89m AOD)	0.3m+
<b>Test Pit 32 (TP 140)</b> Top of test pit = 40.60m AOD			
3	Modern Sewage Sludge - comprising a friable silty peat	0m	3m
4	Alluvium - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey also band of light brown organic silt.	3m (37.66m AOD)	0.65m+
<b>Test Pit 33 (TP 142)</b> Top of test pit =			
3	Modern Sewage Sludge - comprising a friable silty peat	0m	2m+
<b>Test Pit 34 (TP 132)</b> Top of test pit =			
3	Modern Sewage Sludge - comprising a friable silty peat	0m	2m+
<b>Test Pit 35 (TP 127)</b> Top of test pit = 39.63m AOD			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	0.9m
2	Modern Dumped landfill - comprising domestic, clinical and industrial waste and demolition debris	0.9m	1.4m
4	Alluvium - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey. Contains bands of peaty organic material	2.3m (37.33 AOD)	0.1m+
<b>Test Pit 36 (TP 113)</b> Top of test pit = 39.69m AOD			
1	Modern Made-ground - comprising hard-core, road make-up etc	0m	1.3m
2	Modern Dumped landfill - comprising domestic,	1.3m	1.3m

Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
	clinical and industrial waste and demolition debris		
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	2.6m (37.09m AOD)	0.2m+
<b>Test Pit 37 (TP 106)</b> Top of test pit = 39.88m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.9m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.9m	1.4m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	2.3m (37.08m AOD)	1.2m+
<b>Test Pit 38 (TP 97)</b> Top of test pit = 39.20m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.8m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.8m	1.6m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	2.4m (36.8m AOD)	0.7m+
<b>Test Pit 39 (TP 90)</b> Top of test pit = 39.10m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.7m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.7m	1m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	1.7m (37.4m AOD)	0.7m+
<b>Test Pit 40 (TP 70)</b> Top of test pit = 39.01 m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.2m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	1.2m	1m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	2.2m (36.81m AOD)	1.1m+
<b>Test Pit 41 (TP 62)</b> Top of test pit = 38.50m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.9m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.9m	1.25
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	2.15m (36.35m AOD)	1.2m+
<b>Test Pit 42 (TP 38)</b> Top of test pit = 38.60m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.6m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.6m	1.6m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid	2.2m (36.4m AOD)	0.7m+

Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
	greeny grey.		
<b>Test Pit 43 (TP 31)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.1m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	1.1m	1.3m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	2.4m	1.25m+
<b>Test Pit 44 (TP 144)</b> Top of test pit = 40.90m AOD)			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.7m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	0.7m	2.9m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	3.6m	0.6m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	4.2m (36.7m AOD)	0.6m+
<b>Test Pit 45 (TP 146)</b> Top of test pit = 41.02m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.5m
2	<b>Modern Dumped landfill</b> - comprising domestic, clinical and industrial waste and demolition debris	1.5m	1.8m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	3.3m	0.8m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey.	4.1m (36.92m AOD)	0.4m+
<b>Test Pit 46 (TP 2)</b> Top of test pit = 39.09m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.85m
3	<b>Modern Sewage Sludge</b> - comprising a friable silty peat	1.85m	1.3m
5	<b>Natural Gravel</b> - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	3.15m (35.94m AOD)	0.1m+
<b>Test Pit 47 (TP 3)</b> Top of test pit = 38.70m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	0.8m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey. Contains bands of peaty organic material	0.8m (37.9m AOD)	1.95m
5	<b>Natural Gravel</b> - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	2.75m (35.95m AOD)	0.3m+
<b>Test Pit 48 (TP 5)</b> Top of test pit =			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	1.95m
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey. Contains bands of peaty organic material.	1.95m	1.05m
5	<b>Natural Gravel</b> - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	3m	0.15m+
<b>Test Pit 49 (TP 161)</b> Top of test pit = 38.90m AOD			
1	<b>Modern Made-ground</b> - comprising hard-core, road make-up etc	0m	2m

Layer Number	Deposit Description	Depth from Ground level to top of Deposit & AOD level of top of natural deposits	Thickness of Deposit
4	<b>Alluvium</b> - comprising a firm clayey/silt with a c. 20% sand component. Ranging from dark blue/grey to mid greeny grey. Contains bands of peaty organic material.	2m (36.9m AOD)	1.15m
5	<b>Natural Gravel</b> - comprising light bluey-grey fine coarse sand and coarse sub-rounded flint gravel	3.15m (35.75m AOD)	0.25m+



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Figure 1: Site location.

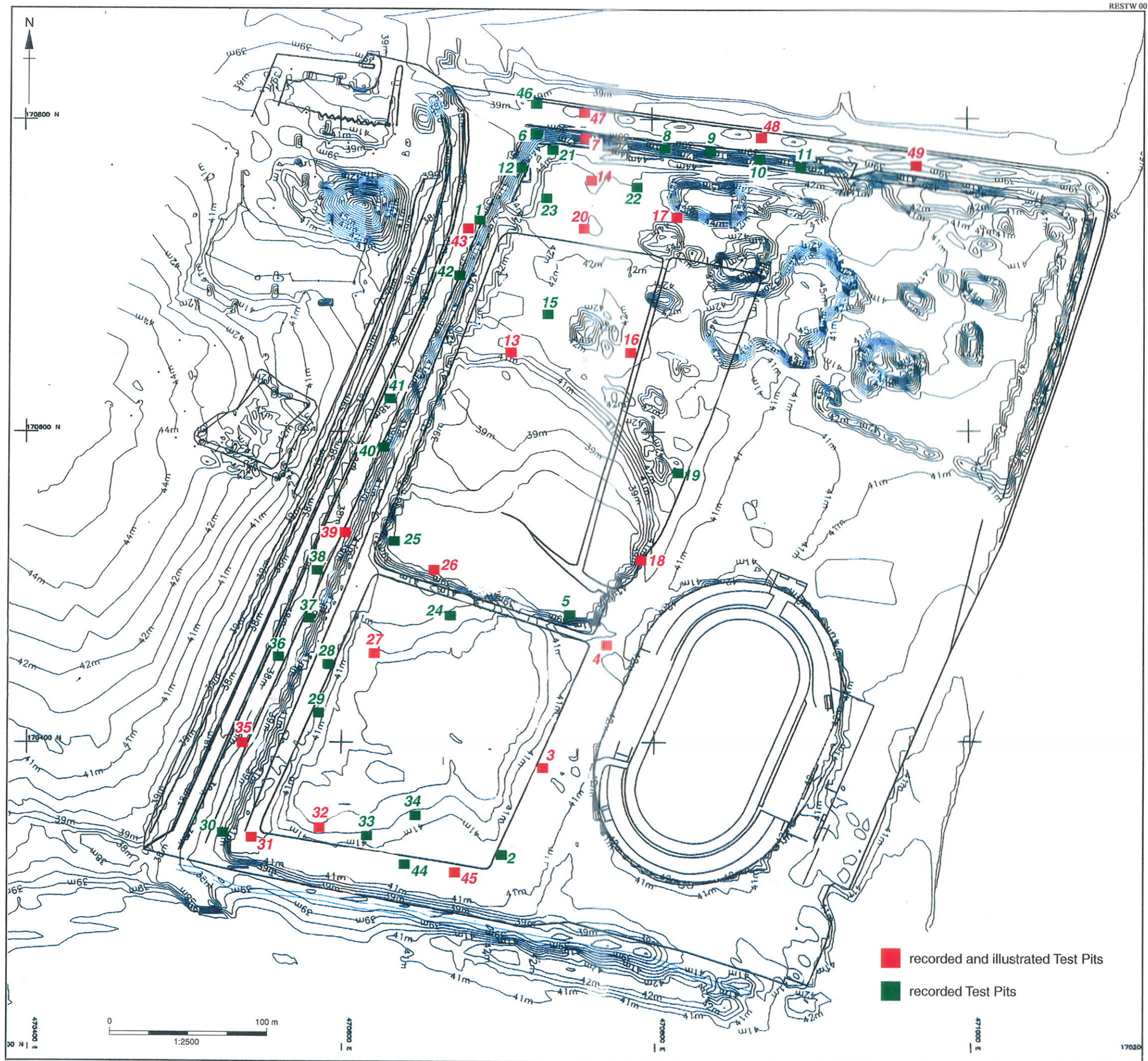


Figure 2: Test pit locations.

Test Pit 3  
Section 3



Test Pit 4  
Section 4



Test Pit 7  
Section 7



Test Pit 13  
Section 13



alluvial  
variation:  
firm light  
brown  
organic silt

Test Pit 14  
Section 14



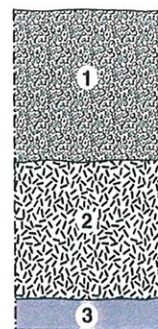
Test Pit 16  
Section 16



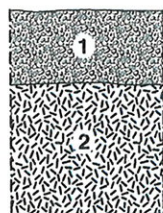
Test Pit 17  
Section 17



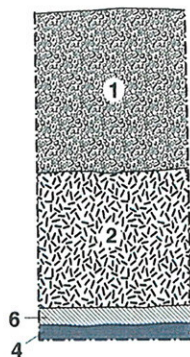
Test Pit 18  
Section 18



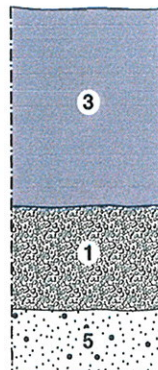
Test Pit 20  
Section 20



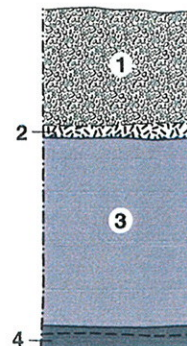
Test Pit 26  
Section 26



Test Pit 27  
Section 27



Test Pit 31  
Section 31



- modern made-ground
- modern dumped landfill
- modern sewage sludge
- alluvium
- natural gravel
- buried soil

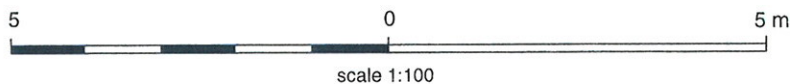
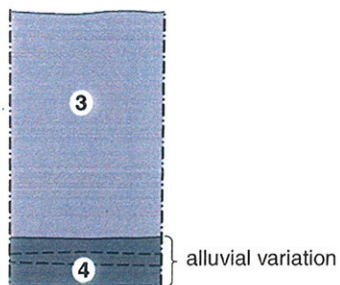
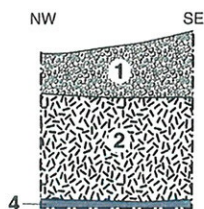


Figure 3: sample sections.

Test Pit 32  
Section 32



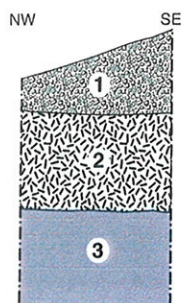
Test Pit 35  
Section 35



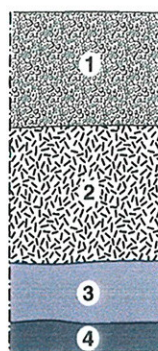
Test Pit 39  
Section 39



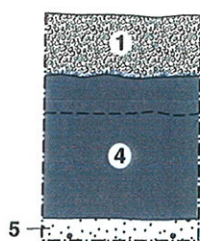
Test Pit 43  
Section 43



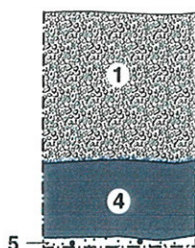
Test Pit 45  
Section 45



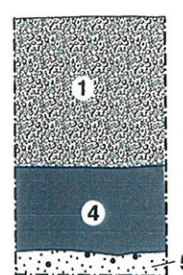
Test Pit 47  
Section 47



Test Pit 48  
Section 48



Test Pit 49  
Section 49



- modern made-ground
- modern dumped landfill
- modern sewage sludge
- alluvium
- natural gravel
- buried soil

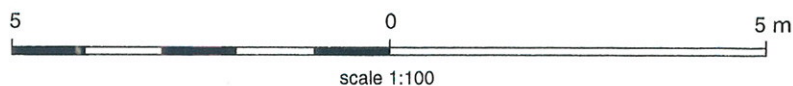


Figure 4: Sample sections.





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