

SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

#### INTRODUCTION

York Archaeological Trust was commissioned by the University of York to investigate site works at Heslington East, where the new campus was to be built. These works comprised test pits, measuring on average 0.6m x 3m, with a depth of 4m, CBR (California Bearing Ratio) pits and soakaway pits, both measuring on average 0.3m x 1.5m, with a depth of 1m. Further groundworks included window sampling, where a hand excavated pit measured an average of 0.6m and the overall depth reached was 1.5m. A prefix of "F" indicates that the test pit was commissioned by Fairhurst, and where the depth of the test pits does not reach 4m, this is due to collapse as a result of the underlying geology. In addition a number YAT Window Samples were excavated to locate degraded peat.

The location of all of the Test Pits, Fairhurst Test Pits and Window Sample Test Pits is given on Figure 1 and for legibility extracts of this Figure are shown in more detail on Figures 2-4.

#### THE TEST PITS

#### $TP1 - (0.6m \times 3m \times 3.9m \text{ deep})$

0 – 0.45m - Topsoil; Friable dark grey brown sandy clay. Occasional ceramic building material.

0.45 – 0.85m - Subsoil; Friable mid brown sandy clay. No inclusions.

0.85 -1.2m - Natural; Firm mid grey slightly sandy clay. No inclusions.

1.2 – 1.7m - Soft pale grey clay sand. No inclusions.

1.7 – 3.9m - Firm dark grey clay with moderate gravel and large stone fragments.

# $TP2 - (0.6m \times 3m \times 4m \text{ deep})$

0 – 0.35m - Topsoil; Friable dark grey brown sandy clay. No inclusions.

 $0.35-1.3 \mathrm{m}$  - Natural; Friable mottled mid red brown clay sand. Occasional small/medium stones and fragments of degraded limestone.

1.3 -4m - Firm mid orange brown sandy clay. Frequent stones of varying sizes. (Water at 3m).

#### $TP3 - (0.6m \times 2.6m \times 3.2m \text{ deep})$

0 - 0.3m - Topsoil; Friable dark grey brown sandy clay. No inclusions.

0.3 – 1.25m - Natural; Friable mid orange brown clay sand. Occasional small stones.

1.25-3.2m- Wet dark brown grey coarse sand interspersed with lumps of firm grey brown clay. Occasional pebbles.

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FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes	i	PAGE	1 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

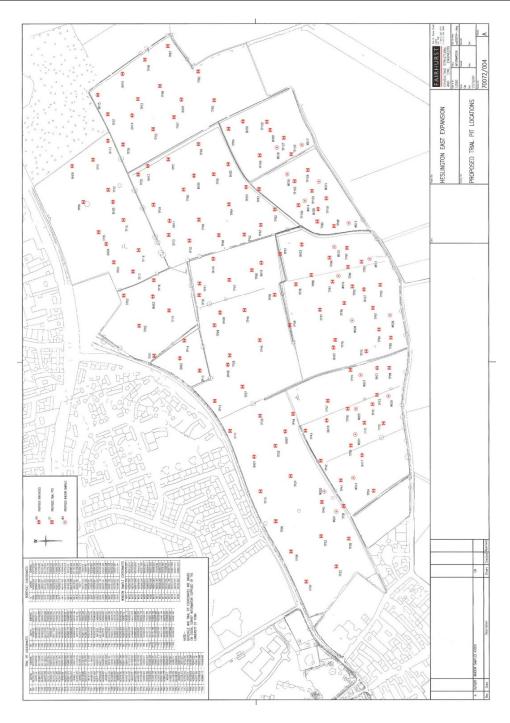


Figure 1 Location of all Test Pits and Window Sample pits

COMPL	COMPLETED BY S. Whittaker		CHECKED BY	M. Stockwell		PREPARED		18/10/2013	
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	2 of 38







SITE ADDRESS	University of York, Heslington East, York						
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YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
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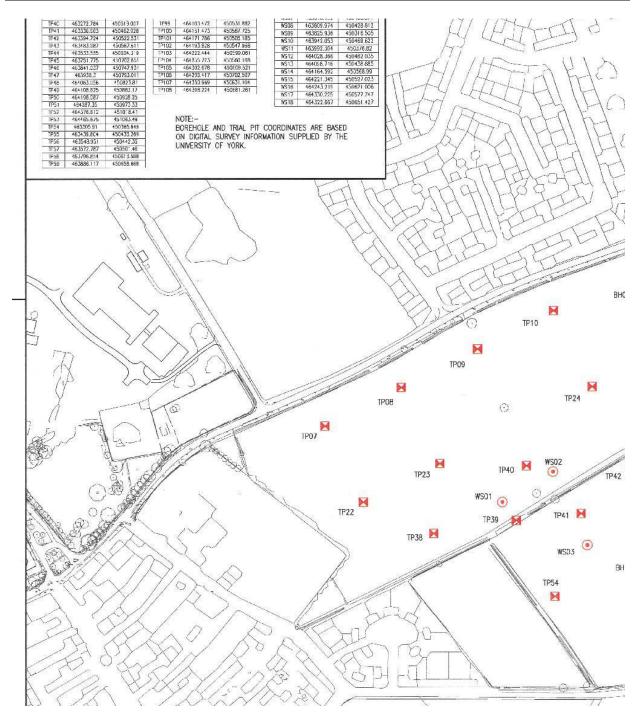


Figure 2 Detail of the western portion of Figure 1, not to scale

COMPL	COMPLETED BY S. V		Whittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	3 of 38







SITE ADDRESS	University of York, Heslingtor	University of York, Heslington East, York					
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YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
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DATE OF VISIT	23/10/07- 09/11/07						

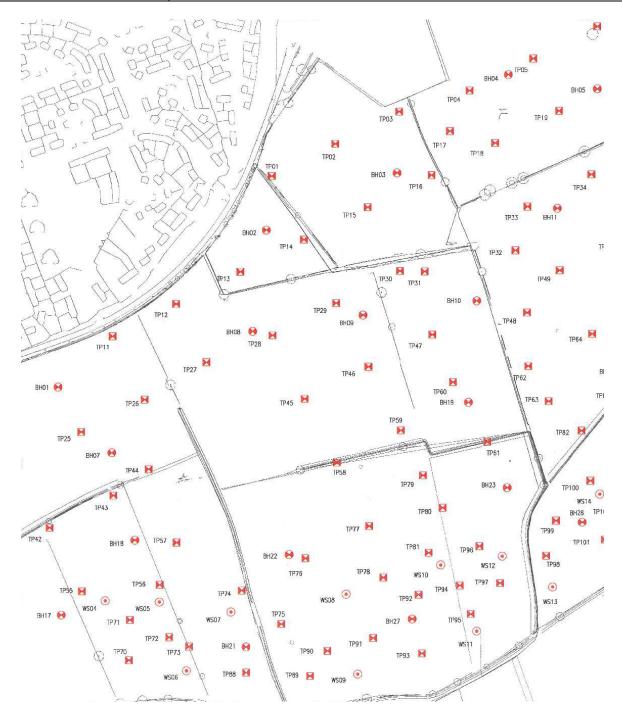


Figure 3 Detail of the central northern portion of Figure 1, not to scale

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FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	4 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION # YORYM: 2007.6006		GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

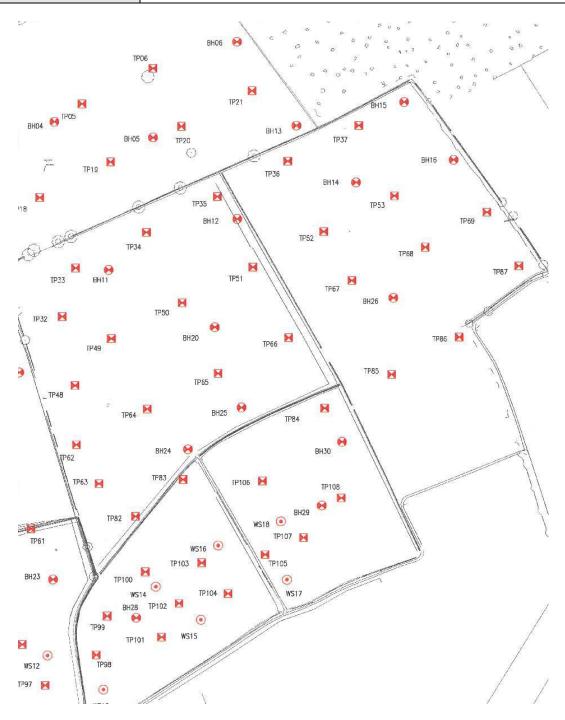


Figure 4 Detail of the eastern portion of Figure 1, not to scale

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FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	5 of 38







SITE ADDRESS	University of York, Heslington East, York						
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YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### $TP4 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.2m Topsoil; Friable dark grey brown sandy clay. No inclusions.
- 0.2 0.45m Natural; Friable dark orange brown coarse sand. No inclusions.
- 0.45 -1.5m Friable mid orange brown coarse sand with patches of pale yellow brown sand. No inclusions.
- 1.5 2m Plastic dark brown grey clay. No inclusions.
- 2 3m Friable dark brown grey slightly clay sand.
- 3 4m As above, but wet and with occasional small stones and fine gravel.

# $TP5 - (0.6m \times 3m \times 4m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown sandy clay. No inclusions.
- 0.35 0.75m Subsoil; Friable mid brown clay sand. Occasional stones of varying sizes, and one sherd of late medieval pottery recovered.
- 0.75 -1.6m Natural; Soft pale grey brown sandy clay. Frequent gravel appearing beyond 1m.
- 1.6 2.2m Firm mid/dark brown clay. Frequent stones of varying sizes
- 2.2 4m Very wet sandy gravel. Possible boulder clay at base.

# $TP6 - (0.6m \times 3m \times 3.7m \text{ deep})$

- 0 0.5m Topsoil; Friable dark grey brown very sandy clay. Occasional small stones.
- 0.5 1.1m Natural; Friable mid brown very sandy clay. No inclusions.
- 1.1 -2.3m Friable mid grey sand. No inclusions.
- 2.3 3.7m Firm dark grey boulder clay. No inclusions.

(Water at 2m).

#### $TP7 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay.
- 0.3 0.8m Natural; Friable mid orange brown coarse sand. Occasional small stones.
- 0.8 4m Firm dark grey brown clay. Frequent gravel and cobbles.

#### $TP8 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay.
- 0.25 0.9m Natural; Firm dark orange brown clay sand. Occasional small stones.
- 0.9 2.5m Firm dark brown grey sandy clay. Occasional pebbles.
- 2.5 4m As above, but wet.

#### $TP9 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional stones.
- 0.3 0.5m Natural; Friable mid orange brown slightly clay coarse sand. Occasional small stones.
- 0.5 0.9m Friable mid orange brown fine sandy gravel with pale blue grey patches of clay.
- 0.9-1.1 m Firm mid grey brown slightly sandy clay. Frequent small stones, pebbles and gravel.
- 1.1 4m Firm mid grey brown slightly silty clay. Frequent pebbles, occasional cobbles.

COMPLI	COMPLETED BY S. V		Nhittaker	CHECKED BY	M. Stoc	kwell	PR	EPARED	18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	6 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61				
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# TP10 - (0.6m x 2.5m x 2.2m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.2-0.5m Natural; Friable pale brown grey clay sand with flecks of yellow brown sand. No inclusions.
- 0.5 2.2m Very wet mid brown grey coarse (running) sand. No inclusions.

# <u>TP11 – (0.6m x 2.5m x 2.5m deep)</u>

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay.
- 0.25 1m Natural; Friable mid orange brown coarse sand. No inclusions.
- 1 2.4m Friable mid grey brown wet sand. Occasional pebbles.
- 2.4 2.5m Firm dark grey brown boulder clay.

#### $TP12 - (0.6m \times 3m \times 4m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 1m Natural; Friable mid brown clay sand. No inclusions.
- 1-4m-Firm dark grey brown slightly sandy clay. Moderate gravel and large stones. (Water at 1.1m).

# TP13 – (0.6m x 2.5m x 2.3m deep)

- 0-0.35m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying sizes and fragments of ceramic building materials.
- 0.35 1m Natural; Compacted yellow brown clay sand with grey/black streaks. No inclusions.
- 1 2.3m Very wet dark brown grey (running) sand. No inclusions. (Water at 1.2m).

#### $TP14 - (0.6m \times 2.5m \times 2.5m deep)$

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying sizes and fragments of ceramic building materials.
- 0.2 1.2m Natural; Friable pale brown yellow sand mottled with pale grey sand. No inclusions.
- 1.2 2.5m Very wet mid grey brown (running) sand. No inclusions.

#### $TP15 - (0.6m \times 3m \times 2.2m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional medium stones.
- 0.3 1.2m Natural; Compacted pale grey brown clay sand. No inclusions.
- 1.2 2.1m Very wet pale brown (running) sand. Moderate gravel.
- 2.1 2.2m Firm mid grey slightly sandy clay. Moderate stones of varying sizes. (Water at 1.2m).

COMPLE	TED BY	S. V	Whittaker	CHECKED BY	M. Stoc	kwell	PREPARED		18/10/2013
FINDS	No	ı	SAMPLES	Yes	PHOTOS	Yes		PAGE	7 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

#### **Fairhurst Test Pits**

# FTP1 – (0.6m x 3m x 4m deep)

- $\overline{0-0.3}$ m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 2.6m Natural; Firm mid grey brown sandy clay. No inclusions.
- 2.6 4m Firm dark grey brown sandy clay. Frequent cobbles and medium stones.

#### FTP2 – (0.6m x 3m x 4.1m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Moderate cobbles.
- 0.3 1.2m Natural; Friable mid red brown clay sand. Frequent gravel and pebbles.
- 1.2 4.1m Friable pale red brown slightly clay sand. Frequent gravel and pebbles.

# FTP3 - (0.6m x 3m x 4.1m deep)

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. Moderate gravel and pebbles.
- 0.4 1.9m Natural; Friable mid red brown clay sand. Frequent gravel and pebbles.
- 1.9 4.1m Firm mid grey brown sandy clay. Frequent gravel and pebbles. (Water at 2.7m).

#### FTP4 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay.
- 0.3 1.6m Natural; Firm dark red brown clay sand. Frequent small stones and pebbles.
- 1.6-2.8m- Firm dark grey brown sandy clay. Frequent small stones, pebbles and sandstone fragments.
- 2.8 4m Friable mid orange brown coarse sand. No inclusions.

#### $FTP5 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay.
- 0.2 0.8m Natural; Friable dark orange brown slightly clay sand. Occasional small stones.
- 0.8 0.9m Firm mid grey brown slightly sandy clay. Occasional gravel.
- $0.9-4m-Firm\ mid\ orange\ brown\ slightly\ sandy\ clay.$  Occasional gravel and sandstone fragments.

#### FTP6 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay.
- 0.2 1.5m Natural; Friable mid orange brown slightly clay sand. Frequent pebbles and small stones. Occasional cobbles and lumps of orange brown clay.
- 1.5 3m Firm/plastic mid red brown slightly sandy clay. Frequent cobbles. Occasional sandstone fragments.
- 3 3.8m Firm mid blue grey clay with patches of red brown clay. Occasional small stones.
- 3.8 4m Wet dark orange brown (running) sand. No inclusions.

COMPL	ETED BY	S. \	Whittaker	CHECKED BY	M. Stoc	kwell	PR	EPARED	18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes	i	PAGE	8 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York	Jniversity of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP7 – (0.6m x 3m x 4m deep)

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. Occasional gravel and small stones.
- 0.4 1.6m Natural; Friable mid red brown slightly clay sand. Moderate gravel and stones of varying sizes.
- 1.6 4m Firm mid red brown sandy clay. Moderate stones of varying size.

#### FTP8 – (0.6m x 3m x 3.6m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. Frequent small stones.
- 0.35 0.5m Natural; Soft mid orange brown silty clay. No inclusions.
- 0.5 1m Firm mid orange brown silty clay. No inclusions.
- 1 1.8m Loose mid orange brown coarse sand. Occasional pebbles.
- 1.8 2.4m As above but contains frequent large stones.
- 2.4 3.6m plastic mid brown grey sandy clay. Occasional small stones.

#### $FTP9 - (0.6m \times 3m \times 3.6m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Clay pipe stem recovered.
- 0.3 0.4m Subsoil; Friable mid grey brown silty clay. No inclusions.
- 0.4 1.4m Natural; Firm mid orange brown fine sand. No inclusions.
- 1.4 1.8m Friable mid brown grey coarse sand. Frequent pebbles.
- 1.8 2m Friable mid yellow brown silty clay sand. No inclusions.
- 2 3.6m Firm/plastic mid brown clay. No inclusions.

#### $FTP10 - (0.6m \times 3m \times 4.3m \text{ deep})$

- 0-0.35m Topsoil; Friable dark grey brown very sandy clay. Frequent stones of varying size and roots.
- 0.35 1.4m Natural; Firm mid orange brown slightly clay sand. Frequent stones of varying size
- 1.4 2m Friable mid orange brown fine sand with occasional patches of orange brown clay. No inclusions.
- 2 2.3m As above but with frequent small stones.
- 2.3 4.3m Firm mid orange brown silty clay sand with frequent patches of orange brown clay. No inclusions.

#### FTP11 – (0.6m x 3m x 3.9m deep)

- 0-0.2m Topsoil; Friable dark grey brown very sandy clay. Frequent small stones and roots. Small brick fragment recovered.
- 0.2 0.3m Subsoil; Slightly plastic grey brown slightly clay silt with occasional patches of orange brown sand..
- 0.3 0.8m Natural; Friable mid orange brown fine sand. No inclusions.
- 0.8–2.5m As above but with occasional lens' of orange brown clay. No inclusions.
- 2.5 2.7m Friable mid orange brown silty sand and gravel (in equal measure).
- 2.7 3.9m plastic mid brown grey clay. No inclusions.

COMPLI	ETED BY	TED BY S. Whittake		CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	9 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# FTP12 (Plate 1) – (0.6m x 3m x 2.8m deep)

- 0-0.3m Topsoil; Friable dark grey brown very sandy clay. Frequent small stones and roots and modern ceramic building material.
- 0.3 0.45m Subsoil; Friable mid orange brown silty sand. No inclusions.
- 0.45 1m Natural; Friable mid orange brown fine sand. No inclusions.
- 1–1.8m As above but with occasional lens' of orange brown clay. No inclusions.
- 1.8 2.3m Friable mid orange brown sand. No inclusions.
- 2.3 2.8m Firm mid grey brown boulder clay. No inclusions. (Running sand at 2.8m).



Plate 1 FTP12

COMPLI	MPLETED BY S. Whittak		Nhittaker	CHECKED BY	M. Stoc	kwell	PR	EPARED	18/10/2013
FINDS	No	ı	SAMPLES	Yes	PHOTOS	Yes		PAGE	10 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP13 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.2 1.5m Natural; Firm/plastic dark red brown slightly sandy clay. Occasional stones of varying size and pebbles..
- 1.5 4m As before but mottled with dark grey clay.

# FTP14 – (0.6m x 2.5m x 4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.25 1.5m Natural; Friable dark red brown slightly clay sand. Occasional small stones.
- 1.5 2.5m Firm dark red brown sandy clay. Occasional cobbles and pebbles.
- 2.5 3m Firm mid orange brown sandy clay, mottled with pale blue grey clay. Frequent cobbles, occasional small stones and pebbles.
- 3 4m Firm dark orange brown sandy clay. Frequent cobbles and pebbles.

# FTP15 - (0.6m x 3m x 4.1m deep)

- 0-0.3m Topsoil; Friable dark grey brown very sandy clay. Moderate gravel, occasional fragments of ceramic building material and stones of varying size.
- 0.3 4.1m Natural; Firm mid brown slightly sandy clay. Moderate gravel and medium sized stones.

#### FTP16 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay. Frequent stones of varying size.
- 0.2 1.2m Natural; Friable dark red brown slightly clay sand. Frequent pebbles and large stones.
- 1.2 4m Firm dark orange brown sandy clay. Frequent gravel and pebbles. Occasional cobbles.

# FTP17 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay. Frequent stones of varying size.
- 0.2 0.5m Natural; Firm mid orange brown sandy clay. Frequent stones of varying size.
- 0.5-2m-Firm dark orange brown slightly sandy clay. Frequent pebbles and cobbles. Occasional boulders.
- 2 4m Firm/plastic mid grey brown clay. Inclusions as before.

# FTP18 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay.
- 0.2 4m Natural; Friable dark red brown slightly clay sand. Frequent pebbles, cobbles and large stones. Occasional boulders.

COMPL	ETED BY	S. \	Whittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes	i	PAGE	11 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	DRYM: 2007.6006 GRID REFERENCE				
DATE OF VISIT	23/10/07- 09/11/07					

#### FTP19 – (0.6m x 2.5m x 4m deep)

- 0 0.15m Topsoil; Friable dark grey brown very sandy clay.
- 0.15 3.2m Natural; Firm dark orange brown slightly sandy clay. Frequent pebbles and cobbles. Occasional stones of varying size.
- 3.2 4m As above but with dark blue grey laminations.

# FTP20 - (0.6m x 2.5m x 4m deep)

- 0 0.15m Topsoil; Friable dark grey brown very sandy clay.
- 0.15 1.1m Natural; Plastic dark red brown sandy clay. Frequent stones of varying size. Occasional pebbles and cobbles.
- 1.1 4m Plastic mid red brown slightly sandy clay. Inclusions as before.

#### FTP21 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay.
- 0.2 1m Natural; Firm mid orange brown sandy clay. Frequent stones of varying size.
- 1-2.9m Firm dark orange brown slightly sandy clay. Occasional pebbles, cobbles and stones of varying size.
- 2.9 4m Friable mid orange brown fine sand. No inclusions.

#### FTP22 – (0.6m x 3m x 2.1m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay.
- 0.35 0.8m Subsoil; Friable mid brown slightly clay sand. No inclusions.
- 0.8 1.45m Natural; Friable mid yellow brown clay sand. No inclusions.
- 1.45 2.1m Friable mid grey clay sand. No inclusions.

#### FTP23 – (0.6m x 2.6m x 2.4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay.
- 0.25 1m Natural; Firm dark red brown slightly sandy clay. No inclusions.
- 1 1.6m Friable mid orange brown slightly clay sand. No inclusions.
- 1.6 2.4m Mid yellow brown (running) sand. No inclusions.

#### $FTP24 - (0.6m \times 3m \times 2.15m \text{ deep})$

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay.
- 0.25 0.9m Natural; Slightly plastic mid orange brown slightly clay sand. No inclusions.
- 0.9-1.7m- Slightly plastic mid brown grey slightly clay sand. Mottled with fine brown orange sand. No inclusions.
- 1.7 2.15m Mid orange brown (running) sand. No inclusions.

#### FTP25 – (0.6m x 2.5m x 3.2m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay.
- 0.3 1.6m Natural; Firm dark brown grey slightly clay sand. No inclusions.
- 1.6 3.2m Mid orange brown fine (running) sand. No inclusions.

COMPLI	S. Whittaker		Nhittaker	CHECKED BY	M. Stoc	PREPARED		18/10/2013	
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	12 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61				
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# FTP26 - (0.6m x 2.5m x 2.4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay.
- 0.25 0.5m Natural; Firm dark brown grey slightly clay sand. No inclusions.
- 0.5 1.5m Mid orange brown fine (running) sand. No inclusions.
- 1.5 2.2m– Firm/plastic pale brown grey slightly silty clay. Occasional fragments of compressed wood/organic material.
- 2.2 2.4m Firm mid orange brown silty sand. Frequent cobbles and pebbles. (Water at 2.2m).

# FTP27 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay.
- 0.3-0.5m- Natural; Firm dark orange brown sandy clay. Occasional stones of varying size and pebbles.
- 0.5 2m Firm dark orange brown slightly sandy clay with patches of pale grey clay. Frequent cobbles, pebbles and stones of varying size.
- 2 4m Firm dark grey brown clay. Occasional gravel, frequent pebbles and cobbles.

# FTP28 – (0.6m x 3m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.3-1.2m- Natural; Friable mid brown slightly clay sand. Moderate stones of varying size, cobbles and pebbles.
- 1.2 4m Firm mid grey brown slightly sandy (boulder) clay. Frequent stones of varying size.

#### $FTP29 - (0.6m \times 3m \times 4m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.8m Natural; Friable mid brown clay sand. Occasional cobbles.
- 0.8 2.5m Slightly compact mid yellow brown clay sand. No inclusions.
- 2.5 4m Very wet mid brown clay sand. Frequent gravel. (Water at 3.9m).

#### $FTP30 - (0.6m \times 3m \times 3.1m \text{ deep})$

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.25 0.35m Subsoil; Firm mid brown grey silt. Occasional mortar and pebbles.
- 0.35 0.6m Natural; Mid orange brown slightly clay sand. No inclusions.
- 0.6 1.5m As above, but with frequent gravel.
- 1.5 2.3m Mid brown slightly sandy clay. Occasional gravel.
- 2.3 3.1m Very wet mid brown sand/gravel.

(Clay observed at 3.1m).

COMPL	MPLETED BY S. Whittaker		CHECKED BY	M. Stockwell		PREPARED		18/10/2013	
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	13 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61				
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# FTP31 - (0.6m x 3m x 3.8m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.25 1.2m Natural; Mid orange brown sand. Occasional pebbles.
- 1.2 2.6m Mid yellow brown gravel/sand. No inclusions.
- 2.6 3.8m Firm mid brown slightly sandy clay.

# FTP32 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.3 0.5m Natural; Firm mid yellow brown sandy clay. Frequent gravel and small stones.
- 0.5 0.8m Firm mid orange brown silty clay. Occasional stones of varying size.
- 0.8 4m As above, but more frequent larger stones.

# FTP33 - (0.6m x 2.5m x 3.5m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.3 1m Natural; Firm dark orange brown slightly clay sand. No inclusions.
- 1 4m Firm/plastic dark orange brown slightly sandy clay. No inclusions.

# FTP34 – (0.6m x 2.5m x 3.5m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.3 0.6m Natural; Friable dark red brown slightly clay sand. Occasional pebbles.
- 0.6 2m Friable mid orange brown fine sand. No inclusions.
- 2-2.3m Firm/plastic mid grey brown sandy clay. Occasional stones of varying size and pebbles.
- 2.3 3.5m As above, but only slightly sandy.

#### (Water at 2.6m).

#### FTP35 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.2 0.4m Natural; Friable mid red brown slightly clay sand. No inclusions.
- 0.4 2.6m Firm mid red brown clay. Frequent small stones.
- 2.6 2.8m Friable mid orange brown clay sand. Occasional cobbles.
- 2.8 4m Firm/plastic red brown clay. Frequent gravel.

(Water at 2.6m).

# FTP36- (0.6m x 2.5m x 4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.25 0.45m Natural; Friable mid orange brown slightly clay sand. Occasional pebbles.
- 0.45 3m Firm dark red brown sandy clay. Frequent gravel and cobbles.
- 3 4m Firm dark orange brown clay with laminations of fine yellow brown sand. Occasional small stones.

COMPLI	ETED BY	S. \	Nhittaker	CHECKED BY	M. Stoc	kwell	PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	14 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61				
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# FTP37- (0.6m x 2.5m x 4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. Occasional small stones.
- 0.25 0.85m Natural; Friable dark red brown slightly clay sand. No inclusions.
- 0.85 4m Friable pale yellow brown coarse sand. Occasional small stones.

#### $FTP38 - (0.6m \times 3m \times 2m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional stones of varying size.
- 0.3 0.65m Natural; Compact pale brown clay sand. Occasional stones of varying size.
- 0.65 2m Compact pale grey clay sand. Occasional streaks of black sand. (Water at 1.6m).

#### $FTP39 - (0.6m \times 3m \times 2.5m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.9m Natural; Friable mid orange brown clay sand. Occasional stones of varying size.
- 0.9-2.5m- Soft mid grey clay sand. No inclusions.

(Water at 1.4m).

# <u>FTP40 – (0.6m x 5.7m x 3m deep – extended in order to locate feature (plough furrow)</u> observed in soakaway pit 40)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.65m Friable mid yellow brown sand. No inclusions. Fill of plough furrow; Firm mid grey brown slightly sandy clay (No finds). Occasional small stones.
- 0.65 1.1m Soft mid grey clay sand. No inclusions.
- 1.1 1.8m Friable mid grey brown gravel/sand. Occasional pebbles.
- 1.8 2.8m Mid red brown (running) sand. Frequent gravel.
- 2.8 3m Firm dark blue grey clay. No inclusions.

# FTP41 – (0.6m x 3m x 3.9m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.8m Natural; Friable mid yellow brown clay sand. Occasional small stones.
- 0.8 1m –. Soft mid grey sandy clay. No inclusions.
- 1 3.9m Firm dark grey (boulder) clay. Frequent stones of varying size.

(Water at 1.3m).

# FTP42 - (0.6m x 2.5m x 2.6m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 1.4m Natural; Friable mid orange brown slightly clay sand with lumps of pale brown grey sandy clay. (No inclusions).
- 1.4 2.6m Mid brown grey (running) sand with lumps of clay of the same colour. Occasional gravel.

COMPL	ETED BY	S. \	Whittaker	CHECKED BY	M. Stoc	kwell	PREPARED		18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes	i	PAGE	15 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61				
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

#### FTP43 – (0.6m x 2.5m x 3.1m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.55m Natural; Slightly plastic mid orange brown slightly clay sand. No inclusions.
- 0.55 1.1 m Slightly plastic pale orange brown slightly clay sand, mottled with flecks of pale blue grey clay sand. No inclusions.
- 1.1 1.4m Soft/plastic mid brown grey clay. No inclusions.
- 1.4 2.3m Friable mid red brown coarse sand with clay lens' of same colour. No inclusions.
- 2.3 2.5m Firm/plastic mid grey brown clay. No inclusions.
- 2.5 3.1m Mid grey brown coarse (running) sand. Frequent gravel.

# FTP44 – (0.6m x 2.5m x 4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.25 1.45m Natural; Friable pale brown grey mottled with pale yellow brown slightly clay sand. Occasional pebbles, cobbles and large sub-angular stones.
- 1.45 4m Firm/plastic dark blue grey slightly sandy clay. Occasional stones of varying size.

## FTP45 – (0.6m x 3m x 4m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.6m Natural; Friable pale brown clay sand. No inclusions.
- 0.6 0.8m Friable mid grey brown clay sand. No inclusions.
- 0.8 1.3m Compact grey sand mottled with orange sand. No inclusions.
- 1.3 2.4m Firm dark grey (boulder) clay with patches of dark grey sand. No inclusions.
- 2.4 4m Firm dark grey sandy clay. Moderate stones of varying size.

# FTP46- (0.6m x 3m x 3.8m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.25 0.4m Natural; Mid brown slightly clay silt. No inclusions.
- 0.4 0.55m mid yellow slightly clay sand. No inclusions.
- 0.55 0.85m Mixed mid grey sand and clay. No inclusions.
- 0.85 1.3m Mid grey sandy clay. No inclusions.
- 1.3 1.5m Slightly wet mid orange brown sand. No inclusions.
- 1.5 3.8m Mid brown clay.

#### $FTP47 - (0.6m \times 3m \times 3.3m \text{ deep})$

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.4 0.6m Natural: Pale brown slightly sandy clay silt. No inclusions.
- 0.6 1.1m Pale yellow brown slightly sandy clay. No inclusions.
- 1.1 1.4m Mid yellow brown slightly clay sand. No inclusions.
- 1.4 2m Mid brown sandy clay/mid yellow brown sand. No inclusions.
- 2 3m Very wet soft mid yellow brown coarse sand. No inclusions.
- 3 3.3m Firm mid brown clay. No inclusions.

COMPL	MPLETED BY S. Whittaker		CHECKED BY	M. Stockwell		PREPARED		18/10/2013	
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	16 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	YORYM: 2007.6006 GRID REFERENCE				
DATE OF VISIT	23/10/07- 09/11/07					

#### FTP48 – (0.6m x 2.5m x 2.8m deep)

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.4 2.8m Natural; Dark orange brown sand with patches of clay. Occasional small stones.

#### $FTP49 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 1.2m Natural; Friable mid red brown fine sand. No inclusions.
- 1.2 4m Firm/plastic dark grey brown sandy clay. Frequent gravel and pebbles.

# FTP50 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.6m Natural; plastic mid yellow brown slightly sandy clay. Occasional stones of varying size and land drain fragments.
- 0.6 0.8m Plastic mid red brown slightly sandy clay. Occasional stones of varying size.
- 0.8 2m Slightly plastic mid red brown sandy clay. No inclusions.
- 2 4m As above, but with frequent cobbles.

#### FTP51 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 1.3m Natural; Friable dark red brown slightly clay sand. Occasional stones of varying size.
- 1.3-4m Firm/plastic dark red brown slightly sandy clay with laminations of black silty deposit at 3m. Frequent stones of varying size including large sandstone fragments, largest measuring  $0.35 \times 0.3 \times 0.2m$ .

#### FTP52 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.6m Natural; Friable mid orange brown slightly clay coarse sand. Occasional pebbles.
- 0.6 0.9m As above, but with frequent pebbles, gravel and stones of varying size.
- 0.9 2.3m Firm mid grey brown clay mottled with pale blue grey clay. Frequent cobbles.
- 2.3 3m Friable mid brown grey coarse sand/gravel. Frequent pebbles.
- 3 4m Friable mid grey brown clay sand. Frequent cobbles and pebbles.

#### FTP53 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.7m Natural; Mixed friable dark brown grey clay sand. Occasional pebbles and stones of varying sizes.
- 0.7 2m Mid orange brown coarse (running) sand. No inclusions.
- 2 4m Firm dark grey brown sandy clay. Frequent pebbles.

COMPL	MPLETED BY S. Whittaker		CHECKED BY	M. Stockwell		PREPARED		18/10/2013	
FINDS	No	١	SAMPLES	Yes	PHOTOS	Yes		PAGE	17 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	Jniversity of York					
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61				
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

#### FTP54 – (0.6m x 3m x 3.9m deep)

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. Moderate small-medium stones.
- 0.4 0.65m Subsoil; Friable mid red brown clay sand. Moderate small-medium stones.
- 0.65 3.9m Natural; Firm dark grey sandy clay. Frequent stones of varying sizes.

# FTP55 – (0.6m x 2.5m x 4.1m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. Moderate small-medium stones.
- 0.35 0.6m Subsoil; Mixed friable mid orange brown slight clay coarse sand. No inclusions.
- 0.6 4.1m Natural; Firm dark grey (boulder) clay. Frequent pebbles, occasional gravel and cobbles.

#### $FTP56 - (0.6m \times 2.8m \times 2.3m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Moderate small-medium stones.
- 0.3 1.15m Natural; Friable mid yellow brown coarse sand with laminations of clay of the same colour. Occasional small stones.
- 1.15 2.3m Wet mid brown grey coarse sand. Occasional pebbles.

#### FTP57 – (0.6m x 2.5m x 2.8m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. Moderate small-medium stones.
- 0.35 1m Natural; Friable mid orange brown slightly clay sand. No inclusions.
- 1 1.5m Friable mid brown grey coarse sand. No inclusions.
- 1.5 2.8m As above, but running sand.
- (Boulder clay observed at 2.8m, prior to major collapse).

#### FTP58 – (0.6m x 3m x 2.3m deep)

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.4 0.45m Subsoil; Firm mid brown very sandy clay. No inclusions.
- 0.45 1.4m Natural; Soft mottled mid grey brown clay sand. No inclusions.
- 1.4 2m Soft mid grey sand. Moderate gravel and occasional very large stones.
- 2 2.3m Firm grey (boulder) clay mixed with firm grey sandy clay. Frequent stones. (Water at 1.5m).

#### $FTP59 - (0.6m \times 3m \times 4.1m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.4m Subsoil; Mid brown slightly clay silt. No inclusions.
- 0.4 1.2m Natural; Mid grey brown clay. Frequent pebbles.
- 1.2 4.1m Mid brown clay. Occasional cobbles.

# FTP60 - (0.6m x 3m x 1.7m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.5m Subsoil; Pale brown sand. No inclusions.
- 0.5 1.5m Natural; Pale grey brown sand. No inclusions.
- 1.5 1.7m Dark grey (running) sand/gravel.

COMPLI	ETED BY	S. \	Nhittaker	CHECKED BY	M. Stoc	kwell	PREPARED		18/10/2013
FINDS	No	١	SAMPLES	Yes	PHOTOS	Yes		PAGE	18 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

# FTP61 - (0.6m x 3m x 3.8m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.4m Subsoil; Mid grey brown slightly clay silt. No inclusions.
- 0.4 0.5m Natural; mid yellow brown slightly clay sandy silt. No inclusions.
- 0.5 1.3m Mid yellow brown slightly clay sand. No inclusions.
- 1.3 1.6m Wet mixed mid yellow and mid grey slightly clay sand.
- 1.6 3.8 Mid grey brown (boulder) clay with occasional red patches.

# FTP62 - (0.6m x 2.5m x 4m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.35 0.75m Natural; Firm mid yellow brown sandy clay with red brown mineral staining. Occasional stones of varying size.
- 0.75 4m Firm/plastic grey brown slightly sandy clay. Frequent cobbles and occasional small stones.

#### $FTP63 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.5m Natural; Friable mid red brown sand. No inclusions.
- 0.5 1.2m Friable mid yellow brown/pale yellow grey sand. No inclusions.
- 1.2 4m Firm/plastic mid brown grey clay. No inclusions.

# FTP64 – (0.6m x 3m x 4m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.3 0.5m Natural; Friable mid red brown sand. No inclusions.
- 0.5 0.7m Friable mid yellow brown sand. No inclusions.
- 0.7 1.2m Friable pale yellow grey sand. No inclusions.
- 1.2 4m Firm/plastic mid grey brown slightly sandy clay. No inclusions.

## $FTP65 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.4 0.8m Subsoil; Friable dark yellow brown clay silt. No inclusions.
- 0.8 4m Natural; Plastic dark grey brown silty clay. Occasional pebbles.

#### FTP66 – (0.6m x 2.5m x 3.7m deep)

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.4 0.6m Subsoil; Friable dark red brown slightly clay sand. Occasional stones of varying size.
- 0.6 1.1m Natural; Friable mid orange brown slightly clay sand. No inclusions.
- 1.1 2.2m Plastic mid orange brown slightly sandy clay. Frequent small stones and pebbles.
- 2.2 3.7m As above but more friable with less frequent pebbles.

COMPLETED BY S.		S. \	Nhittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	19 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP67 – (0.6m x 2.5m x 4m deep)

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.25 0.5m Natural; Friable mid orange brown fine sand. No inclusions.
- 0.5 2m Firm mid brown grey sandy clay. No inclusions.
- 2 3m Friable mid grey brown clay (running) sand. Occasional cobbles and pebbles.
- 3 4m Firm dark brown grey slightly sandy (boulder) clay. No inclusions.

#### FTP68 – (0.6m x 2.5m x 3.7m deep)

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.35 2.2m Natural; Friable dark orange brown slightly clay sand with laminations of firm mid red brown clay. No inclusions.
- 2.2 2.7m Firm mid grey brown slightly sandy clay. No inclusions.
- 2.7 3.7m Friable dark orange brown coarse (running) sand/gravel. Frequent pebbles and occasional charcoal flecks.

#### $FTP69 - (0.6m \times 2.5m \times 4m \text{ deep})$

- 0 0.25m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.25 1.2m Natural; Friable dark orange brown fine sand. No inclusions.
- 1.2 2.2m Firm dark orange brown slightly sandy clay with laminations of fine orange sand. No inclusions.
- 2.2 4m Firm dark grey brown (boulder) clay. Frequent gravel and occasional cobbles.

## $TP70 - (0.6m \times 2.8m \times 4m \text{ deep})$

- 0 0.25m Topsoil: Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.25 4m Natural; Firm dark red brown slightly sandy clay. Frequent gravel and pebbles. Occasional cobbles.

# TP71 – (0.6m x 3m x 2.7m deep)

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.3 1.1m Natural; Friable mid yellow brown coarse sand. No inclusions.
- 1.1 1.7m Friable mid brown grey coarse sand/gravel. No inclusions.
- 1.7 2.7m As above, but running sand.

#### <u>TP72 – (0.6m x 2.5m x 4m deep)</u>

- 0 0.35m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.35 0.5m Subsoil: Friable mid grey brown slightly clay sand. No inclusions.
- 0.5 0.8m Natural; Friable mid orange brown coarse sand. No inclusions.
- 0.8 4m Firm/plastic mid grey brown slightly silty clay. Frequent small stones, occasional pebbles and boulders.

COMPLI	COMPLETED BY S. V		Nhittaker	CHECKED BY	M. Stoc	well PR		EPARED	18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	20 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

# $TP73 - (0.6m \times 2.6m \times 4.2m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.3 0.4m Subsoil; Slightly plastic mid orange brown slightly clay sand. No inclusions.
- 0.4 4.2m Natural; Firm dark grey (boulder) clay. Occasional small stones and cobbles.

# <u>TP74 – (0.6m x 3m x 4m deep)</u>

- 0 0.3m Topsoil; Friable dark grey brown very sandy clay. Occasional pebbles.
- 0.3 0.6m Subsoil; Firm mid orange brown clay sand. Occasional gravel.
- 0.6 4m Natural; Firm/plastic mottled pale yellow brown/pale brown clay sand. Frequent coarse gravel and occasional pebbles.

#### $TP75 - (0.6m \times 3m \times 1.6m \text{ deep})$

- 0 0.4m Topsoil; Friable dark grey brown very sandy clay. No inclusions.
- 0.4 0.5m Subsoil; Friable mid grey brown clay sand. No inclusions.
- 0.5 1.3m Natural; Friable orange brown slightly clay sand. No inclusions.
- 1.3 1.6m Slightly plastic grey very sandy clay. No inclusions. (water at 1.4m).

# FTP76- (0.6m x 3m x 2.7m deep)

- 0 0.35m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.35 0.5m Subsoil; Friable pale grey brown slightly clay sand. No inclusions.
- 0.5 1.4m Natural; Friable orange grey slightly clay sand with occasional dark grey brown streaks of sand. No inclusions.
- 1.4 2m Friable dark grey clay sand. Moderate fine gravel.
- 2 2.3m Gravel deposit.
- 2.3 2.7m Firm mid grey slightly sandy (boulder) clay with frequent stones of varying sizes.

# FTP77 – (0.6m x 3m x 4m deep)

- 0 0.3m Topsoil; Firm dark brown grey very sandy clay silt. No inclusions.
- 0.3 0.8m Subsoil; Friable mid orange brown slightly sandy clay with moderate gravel.
- 0.8 4m Natural; Firm dark brown (boulder) clay. No inclusions.

#### FTP78 – (0.6m x 3m x 2.5m deep)

- 0-0.3m Topsoil; Friable dark grey brown slightly clay fine/medium sand. Occasional small stones and pebbles.
- 0.3-0.7m Subsoil; Friable mid brown slightly clay fine/medium sand. Occasional pale orange brown and grey mottled patches. No inclusions.
- 0.7 2.5m Natural; Friable pale orange brown clay sand with grey mottled patches. No inclusions.

(Water at 2.2m).

COMPLI	COMPLETED BY S. V		Whittaker	CHECKED BY	M. Stoc	kwell	PR	EPARED	18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	21 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP79 – (0.6m x 3m x 3.8m deep)

- 0 0.25m Topsoil; Friable dark brown slightly clay silt. No inclusions.
- 0.25 0.3m Subsoil; Firm dark grey brown slightly clay silt. No inclusions.
- 0.3 1.2m Natural; Friable pale brown orange running sand. No inclusions.
- 1.2 3.8m Firm dark brown (boulder) clay. No inclusions.

# $FTP80 - (0.6m \times 3m \times 4.2m \text{ deep})$

- 0 0.35m Topsoil; Firm dark brown slightly clay silt. No inclusions.
- 0.35 0.7m Subsoil; Firm mid yellow brown slightly clay silt. No inclusions.
- 0.7 1.05m Natural; Friable pale yellow orange mottled with grey brown sand. No inclusions.
- 1.05 4.2m Firm mid brown (boulder) clay with moderate pebbles of varying sizes.

#### $FTP81 - (0.6m \times 3m \times 2.3m \text{ deep})$

- 0 0.35m Topsoil; Friable dark brown slightly clay sandy silt. No inclusions.
- 0.35 0.65m Subsoil; Friable mid brown slightly clay silty sand. No inclusions.
- 0.65 1.5m Natural; Friable pale brown orange sand mottled with grey sand with clay lenses. No inclusions.
- 1.5 2m Friable mid grey slightly clay (running) sand.
- 2 2.3m firm dark brown (boulder) clay. No inclusions.

#### FTP82 – (0.6m x 2.5m x 4m deep)

- 0 0.3m Topsoil; Friable dark brown slightly clay sandy silt. No inclusions.
- 0.3 1.3m Natural; Friable mid yellow brown sand. No inclusions.
- 1.3 2m Firm plastic mid brown grey sandy clay. Occasional stones of varying sizes.
- 2 4m As above, but slightly greyer and less sandy. Frequent gravel.

#### FTP83 – (0.6m x 3m x 3m deep)

- 0 0.35m Topsoil; Soft dark grey brown sandy clay. No inclusions.
- 0.35 1m Natural; Friable mid orange brown clay sand. No inclusions.
- 1 2.1m Friable mid grey sandy clay. No inclusions.
- 2.1 3m Firm dark grey brown sandy clay. Frequent small stones, moderate large stones.

#### FTP84 – (0.6m x 2.5m x 4m deep)

- 0 0.2m Topsoil; Friable dark grey brown clay silt. No inclusions.
- 0.2 0.4m Natural; Friable dark red brown sand. No inclusions.
- 0.4 1.2m Friable pale yellow brown sand. No inclusions.
- 1.2 1.3m Friable mid blue grey sand. No inclusions.
- 1.3 4m firm dark brown grey sandy clay. Occasional small stones and pebbles.

COMPLI	ETED BY	S. \	. Whittaker CHECKED BY M. Stockwell		kwell	PR	EPARED	18/10/2013	
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	22 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP85 – (0.6m x 2.5m x 1.8m deep)

- 0 0.25m Topsoil; Friable dark grey brown clay silt. No inclusions.
- 0.25 0.65m Natural; Slightly plastic mid orange brown slightly clay sand. No inclusions.
- 0.65 1.5m Friable mid yellow brown coarse sand mottled with pale brown grey sand. No inclusions.
- 1.5 1.8m Friable mid blue grey (running) sand. Frequent gravel.

#### FTP86 – (0.6m x 2.5m x 2.3m deep)

- 0 0.3m Topsoil; Friable dark grey brown clay silt. No inclusions.
- 0.3 0.5m Natural; Friable mid yellow brown fine sand. No inclusions.
- 0.5 2.3m Friable mid orange brown fine sand. No inclusions.

## FTP87 – (0.6m x 2.5m x 2m deep)

- 0 0.3m Topsoil; Friable dark grey brown clay silt. No inclusions.
- 0.3 0.7m Natural; Friable mid yellow brown fine sand. No inclusions.
- 0.7 1.2m Friable mid red brown coarse sand. No inclusions.
- 1.2 2m As above, but running sand.

#### FTP88 - (0.6m x 3m x 4m deep)

- 0 0.35m Topsoil; Friable dark grey brown clay silt. No inclusions.
- 0.35 0.55m Natural; Friable mid orange brown slightly clay sand. Occasional small stones and pebbles.
- 0.55 4m Moderately plastic mid orange brown clay. Frequent gravel, occasional cobbles, pebbles and small stones.

#### $FTP89 - (0.6m \times 3m \times 2.6m \text{ deep})$

- 0 0.35m Topsoil; Friable dark brown very clay sand. No inclusions.
- 0.35 1.2m Natural; Friable pale brown clay sand. No inclusions.
- 1.2 1.9m Very soft mid grey clay sand. No inclusions.
- 1.9 2.6m Mixed gravel.

(Water at 1.3m).

#### FTP90 – (0.6m x 3m x 2m deep)

- 0 0.3m Topsoil; Friable dark brown very clay sand. No inclusions.
- 0.3 1.1m Natural; Slightly plastic mid yellow brown slightly clay sand. No inclusions.
- 1.1 2m As above, but running sand. No inclusions.

COMPLETED BY S.		S. \	Whittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	23 of 38







SITE ADDRESS	University of York, Heslington	University of York, Heslington East, York						
CLIENT NAME	University of York	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61							
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505					
DATE OF VISIT	23/10/07- 09/11/07							

#### FTP91 – (0.6m x 3m x 2.2m deep)

- 0 0.4m Topsoil; Friable dark grey brown silty sand. No inclusions.
- 0.4 0.5m Subsoil; Friable pale grey brown silty sand. No inclusions.
- 0.5 1.2m Natural; Friable pale orange brown silty sand. No inclusions.
- 1.2 1.4m Friable orange silty sand. No inclusions.
- 1.4 2m Friable mid grey silty sand. Occasional plant remains.
- 2 2.2m Firm mid grey sandy (boulder) clay. Frequent large stones and gravel.

# FTP92 – (0.6m x 3m x 4.5m deep)

- 0-0.35m Topsoil; Friable dark grey brown clay sand. Very occasional small stones and pebbles.
- 0.35 0.7m Subsoil; Friable grey brown clay sand with occasional mottled patches of orange sand. No inclusions.
- 0.7 1.3m Natural; Friable orange brown silty sand. No inclusions.
- 1.3 4.5m Firm brown grey sandy clay. Frequent gravel, moderate stones of varying sizes.

## FTP93 – (0.6m x 3m x 1.9m deep)

- 0 0.3m Topsoil; Friable mid grey brown silty sand. No inclusions.
- 0.3-0.5m- Subsoil; Friable pale grey brown silty sand with occasional mottled patches of orange sand. No inclusions.
- 0.5-1.3m Natural; Friable pale orange brown sand with occasional streaks of black sand. No inclusions.
- 1.3 1.9m Grey (running) sand. No inclusions. (Water at 1.5m).

#### FTP94 – (0.6m x 3m x 2.3m deep)

- 0 0.3m Topsoil; Friable mid grey brown slightly clay silt. No inclusions.
- 0.3 0.65m Subsoil; Friable mid brown sandy silt. No inclusions.
- 0.65 1.7m Natural; Friable pale brown orange sand mottled with very pale grey brown sand. No inclusions.
- 1.7 2.3m Mid grey (running) sand.

#### FTP95 (Plate 2) – (0.6m x 3m x 4m deep)

- 0 0.35m Topsoil; Friable dark grey brown slightly clay silt. No inclusions.
- 0.35 0.55m Subsoil; Firm mid brown clay silt. No inclusions.
- 0.55 1.4m Natural; Firm mid orange brown clay sand. Moderate gravel.
- 1.4 4m Mid brown (boulder) clay. No inclusions.

COMPL	COMPLETED BY S. Whittaker		Nhittaker	CHECKED BY	M. Stoc	PREPARED		18/10/2013	
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	24 of 38







SITE ADDRESS	University of York, Heslington	University of York, Heslington East, York						
CLIENT NAME	University of York							
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61							
MUSEUM ACCESSION #	YORYM: 2007.6006 GRID REFERENCE SE 640 5							
DATE OF VISIT	23/10/07- 09/11/07							



Plate 2 FTP95

COMPL	COMPLETED BY S. V		Nhittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	25 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

# $FTP96 - (0.6m \times 3m \times 1.9m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown slightly clay silt. No inclusions.
- 0.35 0.5m Subsoil; Friable mid brown very sandy silt. No inclusions.
- 0.5 1.2m Natural; Friable pale grey brown sand mottled with pale yellow sand. No inclusions.
- 1.2 1.7m Friable mid grey sand. No inclusions.
- 1.7 1.9m Friable dark orange brown sandy gravel. Dark brown (boulder) clay observed at 1.9m. No inclusions.

# $FTP97 - (0.6m \times 3m \times 3.5m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown slightly clay silt. No inclusions.
- 0.3 0.5m Subsoil; Friable mid grey brown slightly silty sand. No inclusions.
- 0.5 1.4m Natural; Friable mid yellow brown coarse sand. No inclusions.
- 1.4 1.7m As above, but mottled with pale blue grey sand. No inclusions.
- 1.7 2m Friable dark brown grey (running) sand. Frequent gravel, occasional pebbles.
- 2 3.5m Firm plastic dark brown grey slightly sandy clay. Occasional cobbles and pebbles.

# $FTP98 - (0.6m \times 3m \times 2.3m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown clay sand. Occasional small stones.
- 0.3 1m Natural; Friable pale yellow grey clay sand. No inclusions.
- 1 1.7m Friable mid grey fine sand. No inclusions.
- 1.7 2.3m Firm mid grey slightly sandy (boulder) clay. Frequent large stones.

#### $FTP99 - (0.6m \times 3m \times 2.2m \text{ deep})$

- 0 0.35m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.35 0.45m Subsoil; Friable pale grey clay sand. No inclusions.
- 0.45 1.6m Natural; Friable pale yellow brown clay sand with patches of clay. No inclusions.
- 1.6 2.1m Soft brown grey clay sand. No inclusions.
- 2.1 2.2m Soft mid grey sandy (boulder) clay. Moderate large stones.

(Water at 1.1m).

#### $FTP100 - (0.6m \times 3m \times 2m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.3 0.5m Subsoil; Friable pale grey clay sand. No inclusions.
- 0.5 1.4m Natural; Friable pale yellow brown clay sand. No inclusions.
- 1.4 2m Soft mid grey slightly clay sand. No inclusions.

COMPL	COMPLETED BY S. V		Whittaker	CHECKED BY M. Stoc		kwell PR		EPARED	18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	26 of 38







SITE ADDRESS	University of York, Heslington	University of York, Heslington East, York					
CLIENT NAME	University of York	Jniversity of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	YORYM: 2007.6006 GRID REFERENCE SE					
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP101- (0.6m x 3m x 3.9m deep)

- 0 0.3m Topsoil; Friable mid grey brown silty sand. No inclusions.
- 0.3 0.65m Subsoil; Slightly plastic mid orange brown slightly clay sand. No inclusions.
- 0.65 1.4m Natural; Friable pale yellow brown slightly clay sand mottled with brown sand. Occasional dark red brown mineral staining. No inclusions.
- 1.4 1.8m Friable pale brown grey coarse (running) sand. Occasional gravel and small stones.
- 1.8 3.9 Firm/plastic dark brown grey slightly sandy (boulder) clay. Frequent small stones and pebbles.

# FTP102 – (0.6m x 3m x 2m deep)

- 0 0.35m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.35 0.45m Subsoil; Firm pale brown clay sand. No inclusions.
- 0.45 1.4m Natural; Firm mid brown sandy clay. No inclusions.
- 1.4 1.6m Soft/plastic dark grey sandy clay. No inclusions.
- 1.6 2m Mid brown grey (running) sand. No inclusions. (Water at 1.55m).

# FTP103 – (0.6m x 3m x 3m deep)

- 0 0.35m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.35 0.5m Subsoil; Friable pale brown clay sand. No inclusions.
- 0.5 1.6m Natural; Friable mottled mid orange brown clay sand. No inclusions.
- 1.6 2m Friable mid grey slightly clay sand. Occasional gravel.
- 2 3m Plastic/soft mid grey sandy clay. Moderate large cobbles and stones. (Water at 1.9m).

#### $FTP104 - (0.6m \times 3m \times 3.2m \text{ deep})$

- 0 0.3m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.3 1.5m Natural; Friable dark orange slightly clay coarse sand mottled with pale blue grey/mid orange brown sandy clay. Occasional patches of dark brown mineral staining. Frequent gravel.
- 1.5 2.3m Loose mid red brown coarse (running) sand. No inclusions.
- 2.3 3.2m Firm dark brown grey (boulder) clay. Occasional pebbles, cobbles and stones of varying sizes.

(Water at 1.5m).

# FTP105 – (0.6m x 2.5m x 4m deep)

- 0 0.15m Topsoil; Friable dark grey brown clay sand. No inclusions.
- 0.15 1.4m Natural; Firm dark red brown sandy clay. Occasional small stones.
- 1.4 2m Friable mid orange brown fine sand. No inclusions.
- 2 2.2m Plastic pale grey very sandy clay mottled with pale brown orange sand. No inclusions.
- 2.2 4m Soft friable pale orange brown fine sand. No inclusions.

COMPLI	COMPLETED BY S. White		Nhittaker	CHECKED BY	M. Stoc	kwell	PR	EPARED	18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	27 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FTP106 – (0.6m x 2.5m x 4m deep)

- 0 0.15m Topsoil; Plastic dark grey brown slightly sandy clay. Occasional small stones.
- 0.15 1m Natural; Plastic mid orange brown slightly sandy clay with grey mottling. Very occasional small stones.
- 1 2m Friable pale orange brown fine sand. No inclusions.
- 2 3m Plastic/firm mid brown grey slightly sandy clay. No inclusions.
- 3 4m Plastic dark brown grey clay. No inclusions.

# FTP107 - (0.6m x 2.5m x 3.1m deep)

- 0 0.25m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.25 1.5m Natural; Firm mid red brown clay sand. No inclusions.
- 1.5 3.1m Friable mid orange brown coarse sand. No inclusions.

# FTP108 – (0.6m x 2.5m x 3m deep)

- 0 0.2m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.2 1.1m Natural; Firm dark red brown clay. Very occasional pebbles.
- 1.1 2m Friable mid orange brown coarse sand. No inclusions.
- 2 3m Friable pale orange brown fine sand.

#### Soakaways - Topsoil depths

# <u>TP4 Soakaway – (0.3m x 1.5m x 1.5m deep)</u>

0 - 0.25m - Topsoil.

No subsoil.

#### <u>TP7 Soakaway – (0.35m x 1.3m x 1.4m deep)</u>

0 - 0.25m - Topsoil.

No subsoil.

# <u>TP9 Soakaway – (0.35m x 1.3m x 1.5m deep)</u>

0 - 0.3m - Topsoil.

No subsoil.

#### <u>TP11 Soakaway – (0.3m x 1.1m x 0.9m deep)</u>

0 - 0.3m - Topsoil.

No subsoil.

# <u>TP12 Soakaway – (0.3m x 1.1m x 0.9m deep)</u>

0 - 0.3m - Topsoil.

COMPLETED BY S. V		Whittaker	CHECKED BY M. S		Stockwell		EPARED	18/10/2013	
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes	i	PAGE	28 of 38







SITE ADDRESS	University of York, Heslington East, York						
CLIENT NAME	University of York						
YAT PROJECT #	5112	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

<u>TP14 Soakaway – (0.3m x 1.5m x 1.4m deep)</u>

0 - 0.3m - Topsoil.

No subsoil. (Water at 1.3m).

<u>TP15 Soakaway (Plate 3) – (0.3m x 1.2m x 0.9m deep)</u>

0 - 0.25m - Topsoil.



Plate 3 Test Pit 15

COMPL	COMPLETED BY S. Whittaker		Whittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	29 of 38







SITE ADDRESS	University of York, Heslington	University of York, Heslington East, York						
CLIENT NAME	University of York							
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61							
MUSEUM ACCESSION #	YORYM: 2007.6006 GRID REFERENCE SE 640 5							
DATE OF VISIT	23/10/07- 09/11/07							



Plate 4 FTP40

FTP40 Soakaway (Plate 4) – (0.35m x 1.4m x 1.3m deep)

0 - 0.35m - Topsoil.

No subsoil.

FTP71 Soakaway – (0.3m x 1.2m x 1.2m deep)

0 - 0.35m - Topsoil.

No subsoil.

FTP90 Soakaway – (0.4m x 1.5m x 1.25m deep)

0 - 0.3m - Topsoil.

COMPLETED BY S.		S. \	Nhittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	30 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# <u>FTP97 Soakaway – (0.4m x 1.5m x 1.5m deep)</u>

0 - 0.3m - Topsoil.

No subsoil.

# FTP101 Soakaway - (0.3m x 1.3m x 1.5m deep)

0 - 0.3m - Topsoil.

0.3 - 0.55m - Subsoil.

# FTP104 Soakaway - (0.3m x 1.2m x 1.5m deep)

0 - 0.3m - Topsoil.

0.3 - 0.65m - Subsoil.

# **CBR Test pits (California Bearing Ratio)**

# <u>TP1 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.45m - Topsoil.

0.45 - 0.85m - Subsoil.

# TP2 CBR - (0.4m x 1.5m x 1m deep)

0 - 0.35m - Topsoil.

No subsoil.

# <u>TP3 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.35m - Topsoil.

No subsoil.

# <u>TP4 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.7m - Topsoil.

No subsoil.

# <u>TP5 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.35m - Topsoil.

No subsoil.

# <u>TP6 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.5m - Topsoil.

No subsoil.

# <u>TP7 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.4m - Topsoil.

COMPLI	ETED BY S. Whittaker		CHECKED BY	M. Stockwell		PREPARED		18/10/2013	
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	31 of 38







SITE ADDRESS	University of York, Heslington	University of York, Heslington East, York					
CLIENT NAME	University of York						
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

# <u>TP8 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.3m - Topsoil.

No subsoil.

# <u>TP9 CBR – (0.4m x 1.5m x 1m deep)</u>

0-0.25m- Topsoil.

No subsoil.

# <u>TP10 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.3m - Topsoil.

No subsoil.

## <u>TP13 CBR – (0.4m x 1.5m x 1m deep)</u>

0 - 0.2m - Topsoil.

No subsoil.

#### **Faber Maunsell CBR Boreholes**

# CBR1 - 0.6m x 1.2m x 0.75m deep

0 - 0.45m - Topsoil.

0.45 - 0.85m - Subsoil.

## CBR2 - 0.6m x 1.2m x 0.8m deep

0 - 0.3m - Topsoil.

No subsoil.

# CBR3 - 0.6m x 1.2m x 0.8m deep

0 - 0.2m - Topsoil.

No subsoil.

# CBR4 - 0.6m x 1.3m x 1m deep

0 - 0.3m - Topsoil.

No subsoil.

# CBR5 - 0.6m x 1.1m x 0.8m deep

0 - 0.3m - Topsoil.

0.3 - 0.6m - Subsoil.

# <u>CBR6 – 0.3m x 1.1m x 0.9m deep</u>

0 - 0.35m - Topsoil.

0.35 - 0.5m - Subsoil.

COMPLE	MPLETED BY S. Whi		Whittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	32 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York	University of York				
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# CBR7 – 0.3m x 1.1m x 0.9m deep

0 - 0.3m - Topsoil.

0.3 - 0.8m - Subsoil.

# CBR8 - 0.3m x 1.1m x 0.9m deep

0 - 0.35m - Topsoil.

0.35 - 0.65m - Subsoil.

# CBR9 - 0.3m x 1.1m x 0.9m deep

0 - 0.25m - Topsoil

0.25 - 0.3m - Subsoil.

## CBR10 - 0.3m x 1.3m x 0.9m deep

0 - 0.3m - Topsoil.

0.3 - 0.4m - Subsoil.

# CBR11 - 0.3m x 1.3m x 0.9m deep

0 - 0.35m - Topsoil.

No subsoil.

# CBR12 - 0.3m x 1.3m x 0.9m deep

0 - 0.35m - Topsoil.

No subsoil.

# CBR13 - 0.3m x 1.3m x 0.9m deep

0 - 0.2m - Topsoil.

No subsoil.

# CBR14 - 0.3m x 1.3m x 0.9m deep

0 - 0.2m - Topsoil.

No subsoil.

# CBR15 - 0.3m x 1.2m x 0.8m deep

0 - 0.25m - Topsoil.

No subsoil.

# CBR16 - 0.3m x 1.2m x 0.8m deep

0 - 0.3m - Topsoil.

No subsoil.

# CBR17 - 0.3m x 1.2m x 0.9m deep

0 - 0.25m - Topsoil.

COMPLETED BY S.		S. \	Nhittaker	CHECKED BY	M. Stockwell		PREPARED		18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	33 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# CBR19 - 0.3m x 1.2m x 0.9m deep

0 - 0.3m – Topsoil.

No subsoil.

CBR20 - 0.3m x 1.2m x 1m deep

0 - 0.3m - Topsoil.

No subsoil.

# CBR21 - 0.3m x 1.2m x 1m deep

0 - 0.3m - Topsoil.

No subsoil.

CBR22 and CBR23 do not appear on the borehole location plan.

#### <u>CBR24 – 0.6m x 1.3m x 1m deep</u>

0 - 0.3m - Topsoil.

No subsoil.

# CBR25 - 0.6m x 1.2m x 1m deep

0 - 0.2m - Topsoil.

No subsoil.

# CBR26 - 0.6m x 1.2m x 1m deep

0 - 0.3m - Topsoil.

No subsoil.

# <u>CBR27 – 0.6m x 1.2m x 0.8m deep</u>

0 - 0.2m - Topsoil.

0.2 - 0.3m - Subsoil.

# CBR28 - 0.6m x 1.2m x 0.8m deep

0 - 0.25m - Topsoil.

No subsoil.

#### Fairhurst Window Samples (FWS)

# FWS02 – Diameter 0.9m, 3m deep

0-0.3m - Topsoil; Plastic dark grey brown slightly sandy clay. Rare brick fragments.

0.3 – 1m – Natural; Friable mid grey brown sand with frequent lumps of brown clay. Occasional small stones.

1 – 1.65m – Friable mid red brown fine sand. Frequent degraded wood fragments.

1.65 – 3m – Friable mid grey brown slightly silty coarse sand. Occasional gravel.

(Work halted at this depth due to sand causing casings to stick).

COMPLI	S. Whit		Nhittaker	CHECKED BY	M. Stoc	M. Stockwell		EPARED	18/10/2013
FINDS	No	)	SAMPLES	Yes	PHOTOS	Yes		PAGE	34 of 38







SITE ADDRESS	University of York, Heslington	University of York, Heslington East, York					
CLIENT NAME	University of York	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61						
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505				
DATE OF VISIT	23/10/07- 09/11/07						

#### FWS03 – Diameter 0.9m, 5m deep

- 0-0.35m- Topsoil; Plastic dark grey brown slightly sandy clay. Occasional ceramic land drain fragments.
- 0.35 0.85m Natural; Friable mid brown slightly clay sand. No inclusions.
- 0.85 5m Firm mid grey brown silty clay. Frequent small stones.
- (From 2.6m 4m casing empty, probably due to pushing of a cobble).

#### FWS08 – Diameter 0.9m, 3m deep

- 0 0.3m Topsoil; Plastic dark grey brown slightly sandy clay. Occasional ceramic fragments.
- 0.3 0.85m Natural; Firm mid red brown slightly clay sand. No inclusions.
- 0.85 2.65m Friable mid orange brown coarse sand. No inclusions.
- 2.65 3m Friable mid grey brown (running) sand. Occasional charcoal flecks and gravel.

#### FWS09 – Diameter 0.9m, 2.9m deep

- 0 0.3m Topsoil; Plastic dark grey brown slightly sandy clay. Occasional ceramic fragments.
- 0.3 1.5m Natural; Friable mid yellow brown coarse sand. Occasional small stones.
- 1.5 2.9m Friable mid grey brown silty sand. Frequent fine gravel. (Water at 2.5m).

#### FWS10 – Diameter 0.9m, 2.8m deep

- $\overline{0-0.3m}$  Topsoil; Plastic dark grey brown slightly sandy clay. Occasional ceramic fragments.
- 0.3 1.5m Natural; Friable mid orange brown silty sand. No inclusions.
- 1.5 2.8m Friable mid grey brown (running) sand. Occasional gravel.

# FWS11 - Diameter 0.9m, 5m deep

- 0 0.3m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.3 0.8m Natural; Firm mid red brown slightly sandy clay. Occasional small stones.
- $0.8-5m-Firm\ mid\ grey\ brown\ slightly\ silty\ clay.$  Occasional small stones and larger sandstone fragments.

# York Archaeological Trust Window Samples (YAT WS) (to locate degraded peat).

#### YAT WS01 – Diameter 0.9m, 3m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 0.65m Subsoil; Friable mid orange brown coarse sand. Frequent small stones.
- 0.65-0.8m- Plastic dark grey brown silty clay. Frequent degraded wood fragments. (Sampled).
- 0.8 0.95m Natural; Soft plastic mid brown grey slightly silty clay. No inclusions.
- 0.95 2.8m Friable mid yellow brown (running) sand. No inclusions.
- 2.8 -3m Slightly plastic mid brown grey very sandy clay. No inclusions.

COMPLI	S. Whittaker		CHECKED BY	M. Stoc	kwell	PREPARED		18/10/2013	
FINDS	No	ı	SAMPLES	Yes	PHOTOS	Yes		PAGE	35 of 38







SITE ADDRESS	University of York, Heslington East, York					
CLIENT NAME	University of York					
YAT PROJECT #	5112 <b>YAT REPORT #</b> 2007/61					
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505			
DATE OF VISIT	23/10/07- 09/11/07					

# YAT WS02 - Diameter 0.9m, 3m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 0.9m –Natural; Friable mid orange brown coarse sand. Occasional small coal fragments.
- 0.9 1.3m Slightly plastic mid grey brown clay silt. No inclusions.
- 1.3 1.6m Plastic mid brown grey clay. No inclusions.
- 1.6 2.5m Friable mid grey brown (running) sand. No inclusions.
- 2.5 -3m Friable mid yellow brown coarse sand. No inclusions.

# YAT WS03 - Diameter 0.9m, 1.7m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 0.8m –Natural; Friable mid orange brown coarse sand. No inclusions.
- 0.8 1m Slightly plastic dark red brown silty clay. Occasional degraded wood fragment. (Sampled).
- 1 1.7m Friable mid brown grey sand. No inclusions.

#### YAT WS04 - Diameter 0.9m, 1.4m deep.

- 0 0.35m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.35 0.8m –Natural; Plastic mid orange brown slightly sandy clay. Possible patches of peat. (Sampled).
- 0.8 1m As above, but sandier. No inclusions.
- 1 1.4m Mixed plastic mid grey brown clay. Frequent sandstone fragments of varying sizes.

## YAT WS05 - Diameter 0.9m, 2m deep.

- 0 0.25m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.25 0.7m –Natural; Slightly plastic mid yellow brown sandy clay. Frequent small stones.
- 0.7 2m Plastic mid grey brown silty clay. Frequent stones of varying sizes.

# YAT WS06 - Diameter 0.9m, 1.6m deep.

- 0 0.3m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.3 0.9m Natural: Plastic mid vellow brown sandy clay. No inclusions.
- 0.9 1.4m Slightly plastic dark grey brown silty clay. No inclusions. (Sampled).
- 1.4 1.6m Friable mid brown grey fine sand. No inclusions.

#### YAT WS07 – Diameter 0.9m, 2m deep.

- 0 0.35m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.35 0.7m Natural; Firm mid orange brown slightly sandy clay. Occasional small sandstone fragments.
- 0.7 1.2m Mixed slightly plastic dark brown silty clay. Frequent degraded wood fragments. (Sampled).
- 1.2 2m Friable mid yellow brown coarse sand. No inclusions.

COMPLI	PLETED BY S. Whittaker		CHECKED BY	M. Stoc	PREPARED		18/10/2013		
FINDS	No	١	SAMPLES	Yes	PHOTOS	Yes		PAGE	36 of 38







SITE ADDRESS	University of York, Heslington East, York				
CLIENT NAME	University of York				
YAT PROJECT #	5112	YAT REPORT #	2007/61		
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505		
DATE OF VISIT	23/10/07- 09/11/07				

# YAT WS08 - Diameter 0.9m, 2m deep.

- 0 0.3m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.3 0.7m Natural; Plastic mid orange brown slightly sandy clay. No inclusions.
- 0.7 0.9m Friable dark red brown silty clay. No inclusions. (Sampled).
- 0.9 2m Mixed friable mid grey brown clay sand. No inclusions.

# YAT WS09 – Diameter 0.9m, 1.6m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4-0.7m Subsoil; Slightly plastic mid grey/orange brown silty sandy clay. Rare charcoal flecks.
- 0.7 1.6m Natural; Slightly plastic mid orange brown clay sand with patches of pale brown grey sand. No inclusions.

#### YAT WS10 – Diameter 0.9m, 2m deep.

- 0-0.3m- Topsoil; Plastic dark grey brown slightly sandy clay. Rare ceramic land drain fragments.
- 0.3 0.4m Subsoil; Friable mid orange brown sand. Frequent stones of varying sizes.
- 0.4 1.45m Natural; Friable mid yellow brown sand. Rare small pebbles.
- 1.45 2m Firm mid brown grey slightly sandy clay. No inclusions.

# YAT WS11 – Diameter 0.9m, 1.5m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 1.5m Natural; Friable mixed mid yellow brown silty sand. Frequent stones of varying sizes.

#### YAT WS12 – Diameter 0.9m, 1.6m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 0.8m Subsoil; Firm mid orange brown sandy clay. Frequent stones of varying sizes.
- 0.8 1m Natural; Slightly plastic dark grey clay. Possible fragments of peat. (Sampled).
- 1 1.6m Friable mid orange brown (running) sand. Occasional small stones.

#### YAT WS13 – (Hand Excavated) Diameter 0.9m, 1.2m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 1m Natural; Slightly plastic mid orange brown slightly clay sand. Occasional small stones.
- 1 1.2m As above, but mottled with pale grey brown clay sand.

# YAT WS14 – (Hand Excavated) Diameter 0.9m, 1.2m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 0.6m Natural; Slightly plastic mid orange brown sandy clay. Frequent stones of varying sizes, occasional ceramic land drain fragments.
- 0.6-1.2m As above, but with more ceramic land drain fragments and occasional small stones.

COMPLETED BY S. V		Nhittaker	CHECKED BY	M. Stoc	kwell	PR	EPARED	18/10/2013	
FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	37 of 38







SITE ADDRESS	University of York, Heslington East, York				
CLIENT NAME	University of York				
YAT PROJECT #	5112	YAT REPORT #	2007/61		
MUSEUM ACCESSION #	YORYM: 2007.6006	GRID REFERENCE	SE 640 505		
DATE OF VISIT	23/10/07- 09/11/07				

# YAT WS15 – Diameter 0.9m, 2m deep.

- 0 0.4m Topsoil; Plastic dark grey brown slightly sandy clay. No inclusions.
- 0.4 0.8m Natural; Slightly plastic mid orange brown sandy clay. Frequent small stones.
- 0.8 2m Slightly plastic mid grey brown sandy clay. Frequent small stones.

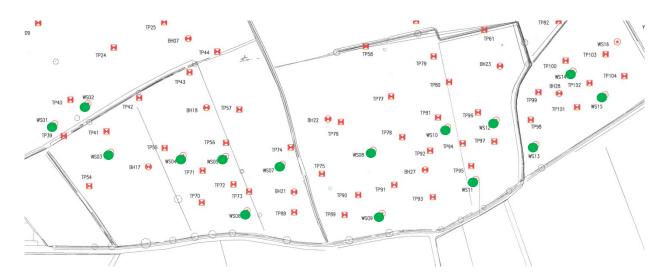


Figure 5 Detail of the central southern portion of Figure 1 to show the location of the various Window Samples (highlighted in green). Not to scale.

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FINDS	No	1	SAMPLES	Yes	PHOTOS	Yes		PAGE	38 of 38



