

**APPENDIX IV**  
**EXPLORATORY HOLE LOGS**

# Borehole Log

Borehole No.

**BH101**

Sheet 1 of 2

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
CP

Location: Havant

Level:

Scale  
1:50

Client: PMC

Dates: 15/07/2016 - 15/07/2016

Logged By  
G.L

| Well                                                                               | Water Strikes                                                                       | Samples and In Situ Testing |      |                                 | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                                    |   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|------|---------------------------------|-----------|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                     | Depth (m)                   | Type | Results                         |           |           |                                                                                     |                                                                                                                                                        |   |
|  |  | 0.20 - 0.30                 | ES   | PID=2                           | 0.20      |           |    | MADE GROUND<br>Reinforced concrete.                                                                                                                    |   |
|                                                                                    |                                                                                     | 0.30 - 0.60                 | B    |                                 |           |           |                                                                                     | MADEGROUND                                                                                                                                             |   |
|                                                                                    |                                                                                     | 0.50 - 0.60                 | ES   |                                 | 0.50      |           |                                                                                     | Soft, brown gravelly CLAY. Gravel is angular to subrounded, fine to coarse clinker and flint.                                                          |   |
|                                                                                    |                                                                                     | 0.60 - 0.70                 | ES   | PID=107<br>N=37 (6,11/10,9,9,9) | 0.60      |           |    | MADEGROUND<br>Soft, dark brown/black, gravelly CLAY. Gravel is angular to subrounded, fine to coarse brick, clinker and flint.                         | 1 |
|                                                                                    |                                                                                     | 0.80 - 1.10                 | B    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 0.90 - 1.00                 | ES   |                                 | 1.20      |           |                                                                                     | @ 0.50-0.60m bgl very strong hydrocarbon odour present.                                                                                                |   |
|                                                                                    |                                                                                     | 1.20                        | ES   |                                 |           |           |                                                                                     | MADEGROUND                                                                                                                                             |   |
|                                                                                    |                                                                                     | 1.20 - 1.30                 | ES   | PID=2<br>N=18 (5,5/4,4,5,5)     |           |           |    | Friable, brown, slightly gravelly CLAY. Gravel is angular to subrounded, fine to coarse brick and flint.                                               | 2 |
|                                                                                    |                                                                                     | 1.90 - 2.00                 | ES   |                                 |           |           |                                                                                     | @ 0.80m bgl clay becomes soft.                                                                                                                         |   |
|                                                                                    |                                                                                     | 2.00                        | B    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 2.10                        | B    | N=15 (3,3/4,3,4,4)              | 2.50      |           |    | GRAVEL<br>Brown and greyish white GRAVEL. Gravel is angular to subrounded, fine to medium flint. With occasional clay content present throughout unit. | 3 |
|                                                                                    |                                                                                     | 3.00                        | D    |                                 |           |           |                                                                                     | SAND                                                                                                                                                   |   |
|                                                                                    |                                                                                     | 3.00                        | ES   |                                 |           |           |                                                                                     | Greyish brown, slightly gravelly SAND. Sand is medium to coarse. Gravel is angular to sub rounded, fine to coarse flint.                               |   |
|                                                                                    |                                                                                     | 3.20 - 3.30                 | B    | N=11 (0,1/2,2,3,4)              |           |           |    | @ 3.70m bgl sand becomes silty.                                                                                                                        | 4 |
|                                                                                    |                                                                                     | 3.70 - 3.90                 | B    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 4.00                        | D    |                                 | 4.10      |           |    | SAND                                                                                                                                                   |   |
|                                                                                    |                                                                                     | 4.00                        | D    | PID=2                           |           |           |                                                                                     | Greenish grey mottled dark grey, silty SAND. Sand is fine to medium, with black staining present and a strong hydrocarbon odour present.               |   |
|                                                                                    |                                                                                     | 4.30 - 4.40                 | ES   |                                 |           |           |                                                                                     | @ 4.60m bgl gravel content present comprising of Black angular to sub rounded, medium to coarse with frequent cobble content of flint.                 |   |
|                                                                                    |                                                                                     | 4.50                        | D    |                                 |           |           |    | CLAY                                                                                                                                                   | 5 |
|                                                                                    |                                                                                     | 4.60 - 4.90                 | B    | Ublow=55<br>PID=2               | 5.00      |           |                                                                                     | Stiff grey CLAY.                                                                                                                                       |   |
|                                                                                    |                                                                                     | 5.00 - 5.45                 | U    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 5.20 - 5.30                 | ES   | N=15 (1,2/3,3,4,5)              |           |           |   |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 5.45                        | D    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 6.00                        | D    |                                 |           |           |  |                                                                                                                                                        | 6 |
|                                                                                    |                                                                                     | 6.50                        | D    | PID=1                           |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 6.50                        | D    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 7.50                        | D    | PID=2                           |           |           |  |                                                                                                                                                        | 7 |
|                                                                                    |                                                                                     | 7.60 - 7.70                 | ES   |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 8.00 - 8.45                 | U    |                                 |           |           |  |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 8.45                        | D    | Ublow=70                        |           |           |                                                                                     |                                                                                                                                                        | 8 |
|                                                                                    |                                                                                     | 9.00                        | D    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 9.50                        | D    | PID=2<br>N=24 (2,2/3,4,6,11)    |           |           |  |                                                                                                                                                        | 9 |
|                                                                                    |                                                                                     | 9.50                        | D    |                                 |           |           |                                                                                     |                                                                                                                                                        |   |
|                                                                                    |                                                                                     | 9.50 - 9.60                 | ES   |                                 | 10.00     |           |                                                                                     |                                                                                                                                                        |   |

Continued on next sheet

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Water strike at 10.50m bgl standing at 5.50m bgl.

# Borehole Log

Borehole No.

**BH101**

Sheet 2 of 2

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
CP

Location: Havant

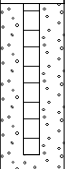
Level:

Scale  
1:50

Client: PMC

Dates: 15/07/2016 - 15/07/2016

Logged By  
G.L

| Well                                                                              | Water Strikes                                                                     | Samples and In Situ Testing |      |                                | Depth (m)      | Level (m) | Legend                                                                            | Stratum Description                                                                                                                                                     |    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|------|--------------------------------|----------------|-----------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                   |                                                                                   | Depth (m)                   | Type | Results                        |                |           |                                                                                   |                                                                                                                                                                         |    |
|  |  | 10.20 - 10.30               | ES   | PID=2                          | 11.00<br>11.10 |           |  | GRAVEL<br>Dark grey to grey, clayey GRAVEL. Gravel is sub rounded to well rounded, medium flint.                                                                        | 11 |
|                                                                                   |                                                                                   | 10.30                       | D    |                                |                |           |                                                                                   |                                                                                                                                                                         |    |
|                                                                                   |                                                                                   | 11.00                       |      | N=50 (25 for 60mm/50 for 35mm) |                |           |                                                                                   |                                                                                                                                                                         |    |
|                                                                                   |                                                                                   | 11.00                       | D    |                                |                |           |                                                                                   |                                                                                                                                                                         |    |
|                                                                                   |                                                                                   | 11.00 - 11.10               | ES   |                                |                |           |                                                                                   |                                                                                                                                                                         |    |
|                                                                                   |                                                                                   | 11.10                       | D    | PID=3                          |                |           |  | SANDSTONE<br>Recovered as: greenish grey, slightly sandy GRAVEL. Sand is sub angular to sub rounded, fine to medium, flint and sandstone.<br>End of borehole at 11.10 m | 12 |
|                                                                                   |                                                                                   | 11.10 - 11.20               | ES   |                                |                |           |                                                                                   |                                                                                                                                                                         |    |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 13 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 14 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 15 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 16 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 17 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 18 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 19 |
|                                                                                   |                                                                                   |                             |      |                                |                |           |                                                                                   |                                                                                                                                                                         | 20 |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Water strike at 10.50m bgl standing at 5.50m bgl.

# Borehole Log

Borehole No.

**BH102A**

Sheet 1 of 2

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
CP

Location: Havant

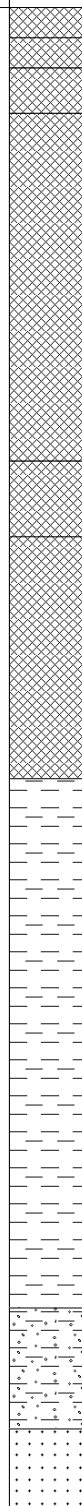
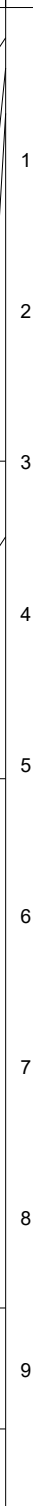
Level:

Scale  
1:50

Client: PMC

Dates: 13/07/2016 - 13/07/2016

Logged By  
G.L

| Well                                                                               | Water Strikes                                                                       | Samples and In Situ Testing |      |                                                                                         | Depth (m) | Level (m)                                                                                     | Legend                                                                                                                                             | Stratum Description                                                                  |                                                                                                                                                                  |  |  |  |  |  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|------|-----------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
|                                                                                    |                                                                                     | Depth (m)                   | Type | Results                                                                                 |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|  |  | 0.20 - 0.30                 | ES   | PID=0                                                                                   | 0.20      |             | MADE GROUND<br>Reinforced concrete.                                                                                                                |  |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 0.40 - 0.50                 | ES   |                                                                                         | 0.40      |                                                                                               | MADE GROUND                                                                                                                                        |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 0.60                        | ES   |                                                                                         | 0.70      |                                                                                               | Soft brown, dark brown slightly sandy, gravelly CLAY. Sand is medium to coarse. Gravel is angular to sub rounded, fine to coarse, flint and brick. |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 0.70 - 0.90                 | B    |                                                                                         |           |                                                                                               | MADE GROUND                                                                                                                                        |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 1.10                        | D    | N=4 (1,1/1,1,1,1)                                                                       |           |                                                                                               |                                                                                                                                                    |                                                                                      | Soft orangey brown, slightly sandy, gravelly CLAY. sand is medium. Gravel is angular to sub rounded, fine to coarse with the occasional cobble content of flint. |  |  |  |  |  |
|                                                                                    |                                                                                     | 1.20                        | B    |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | SAND                                                                                                                                                             |  |  |  |  |  |
|                                                                                    |                                                                                     | 2.00                        | D    |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | Very loose, orangey brown, slightly gravelly, clayey SAND. Sand is fine to medium.                                                                               |  |  |  |  |  |
|                                                                                    |                                                                                     | 2.10                        |      |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | Occasional gravel content of angular to sub rounded fine to cobble flint.                                                                                        |  |  |  |  |  |
|                                                                                    |                                                                                     | 2.50 - 2.60                 | ES   | N=6 (1,1/2,1,1,2)                                                                       |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 3.00                        | B    |                                                                                         | 3.00      |                                                                                               |                                                                                                                                                    |                                                                                      | MADE GROUND                                                                                                                                                      |  |  |  |  |  |
|                                                                                    |                                                                                     | 3.00 - 3.10                 | ES   |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | Soft to firm, grey, slightly gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint and brick.                                                    |  |  |  |  |  |
|                                                                                    |                                                                                     | 3.50 - 3.60                 | ES   |                                                                                         | 3.50      |                                                                                               |                                                                                                                                                    |                                                                                      | MADE GROUND                                                                                                                                                      |  |  |  |  |  |
|                                                                                    |                                                                                     | 4.00                        | B    |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | Soft, grey slightly gravelly CLAY. Gravel is angular is angular to sub rounded, fine to coarse flint and brick.                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 4.00 - 4.10                 | ES   |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 4.70                        | D    | PID=6                                                                                   | 5.10      |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 5.00                        | B    |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | CLAY                                                                                                                                                             |  |  |  |  |  |
|                                                                                    |                                                                                     | 5.00                        |      |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      | Stiff, grey CLAY.                                                                                                                                                |  |  |  |  |  |
|                                                                                    |                                                                                     | 5.50 - 5.60                 | ES   |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 6.00                        | D    | PID=6                                                                                   |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | 6.50                        | U    |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 6.50 - 6.60                                                                        | ES                                                                                  |                             |      |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 6.95                                                                               | D                                                                                   |                             |      |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 7.50                                                                               | D                                                                                   | PID=0                       |      |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 8.00                                                                               | D                                                                                   |                             | 8.60 |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 8.00                                                                               |                                                                                     |                             |      |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 8.60 - 8.70                                                                        | ES                                                                                  |                             |      |                                                                                         |           | CLAY                                                                                          |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 8.60 - 9.00                                                                        | B                                                                                   |                             |      |                                                                                         |           | Stiff, dark grey gravelly CLAY. Gravel is sub rounded to rounded, fine to coarse black flint. |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 9.00                                                                               | D                                                                                   | PID=0                       | 9.40 |                                                                                         |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
| 9.40                                                                               |                                                                                     |                             |      |                                                                                         |           | SANDSTONE                                                                                     |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |
|                                                                                    |                                                                                     | N=50 (7,8/50 for 220mm)     |      | Recovered as: greenish grey, slightly sandy GRAVEL. Sand is sub angular to sub rounded, |           |                                                                                               |                                                                                                                                                    |                                                                                      |                                                                                                                                                                  |  |  |  |  |  |

Continued on next sheet

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance survey. Groundwater strike at 9.40m bgl standing at 4.10m bgl.



10 Manor Court  
2 Barnes Wallis Road  
Segensworth  
Fareham  
PO15 5TH

# Borehole Log

Borehole No.

**BH102A**

Sheet 2 of 2

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
CP

Location: Havant

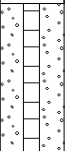
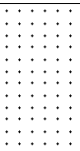
Level:

Scale  
1:50

Client: PMC

Dates: 13/07/2016 - 13/07/2016

Logged By  
G.L

| Well                                                                              | Water Strikes | Samples and In Situ Testing |      |                                  | Depth (m) | Level (m) | Legend                                                                            | Stratum Description                  |    |
|-----------------------------------------------------------------------------------|---------------|-----------------------------|------|----------------------------------|-----------|-----------|-----------------------------------------------------------------------------------|--------------------------------------|----|
|                                                                                   |               | Depth (m)                   | Type | Results                          |           |           |                                                                                   |                                      |    |
|  |               | 11.00                       |      | N=55 (25 for 115mm/55 for 120mm) | 11.00     |           |  | fine to medium, flint and sandstone. |    |
|                                                                                   |               | 11.00                       | D    |                                  |           |           |                                                                                   | End of borehole at 11.00 m           | 11 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 12 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 13 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 14 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 15 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 16 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 17 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 18 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 19 |
|                                                                                   |               |                             |      |                                  |           |           |                                                                                   |                                      | 20 |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance survey. Groundwater strike at 9.40m bgl standing at 4.10m bgl.



# Borehole Log

Borehole No.

**BH103**

Sheet 1 of 2

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
CP

Location: Havant

Level:

Scale  
1:50

Client: PMC

Dates: 14/07/2016 - 15/07/2016

Logged By  
G.L

| Well                                                                               | Water Strikes                                                                     | Samples and In Situ Testing       |      |                                                                                     | Depth (m)                                                                                               | Level (m)                                                                           | Legend                                                                                                                                                                                | Stratum Description |  |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
|                                                                                    |                                                                                   | Depth (m)                         | Type | Results                                                                             |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|  |  | 0.20 - 0.30                       | ES   | PID=3<br>N=37 (5,8/7,8,10,12)                                                       | 0.20                                                                                                    |    | MADE GROUND<br>Reinforced concrete.                                                                                                                                                   | 1                   |  |
|                                                                                    |                                                                                   | 0.20 - 0.40                       | B    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 0.60 - 0.70                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 0.90 - 1.00                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 1.00                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 1.20                              | B    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 1.20                              | B    | PID=3<br>N=22 (7,7/6,5,6,5)                                                         | 1.50                                                                                                    |    | MADE GROUND<br>Soft, dark brown, slightly gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint, brick and concrete. Black staining present with a hydrocarbon odour. | 2                   |  |
|                                                                                    |                                                                                   | 1.40                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 1.50 - 1.60                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 1.70                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 2.00                              | B    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 2.00                              | B    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 2.00 - 2.10                       | ES   | PID=3<br>N=10 (1,1/2,2,3,3)                                                         | 2.00                                                                                                    |    | CLAY<br>Soft, orangey brown, slightly gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint. Strong hydrocarbon odour present.                                        | 3                   |  |
|                                                                                    |                                                                                   | 3.00                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 3.00                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 3.00 - 3.10                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 3.60 - 3.70                       | B    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 3.90                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 4.00                              | B    | PID=7<br>N=17 (3,5/4,5,4,4)                                                         | 3.80                                                                                                    |  | GRAVEL<br>Loose, brown, GRAVEL. Gavel is angular to sub rounded, fine to medium flint.                                                                                                | 4                   |  |
|                                                                                    |                                                                                   | 4.00                              | B    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 4.00 - 4.10                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 4.50                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 4.50 - 4.60                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 5.00 - 5.45                       | U    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 5.45                              | D    | PID=6<br>Ublow=65                                                                   | 4.50                                                                                                    |  | CLAY<br>Very stiff, grey CLAY.                                                                                                                                                        | 5                   |  |
|                                                                                    |                                                                                   | 6.00                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 6.00 - 6.10                       | ES   |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
|                                                                                    |                                                                                   | 6.50                              | D    |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 6.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 7.00 - 7.10                                                                        | ES                                                                                |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 7.00 - 7.40                                                                        | B                                                                                 | PID=10<br>N=16 (2,2/3,3,5,5)      | 7.10 |  | CLAY<br>Stiff, gravelly, silty CLAY. Gravel is sub angular to well rounded, fine to coarse black flint. | 7                                                                                   |                                                                                                                                                                                       |                     |  |
| 7.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 8.00                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 8.00                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 8.00 - 8.10                                                                        | ES                                                                                |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 | PID=2<br>N=50 (4,10/50 for 105mm) | 7.60 |  | Very dense, greenish very slightly clayey silty SAND. Sand is fine to medium.                           | 8                                                                                   |                                                                                                                                                                                       |                     |  |
| 8.00                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 8.00 - 8.10                                                                        | ES                                                                                |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 | PID=3<br>N=50 (8,17/50 for 100mm) |      |  | Continued on next sheet                                                                                 | 9                                                                                   |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |
| 9.50                                                                               | D                                                                                 |                                   |      |                                                                                     |                                                                                                         |                                                                                     |                                                                                                                                                                                       |                     |  |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Groundwater seepage at 1.90m bgl strike at 7.60m bgl.

# Borehole Log

Borehole No.

**BH103**

Sheet 2 of 2

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
CP

Location: Havant

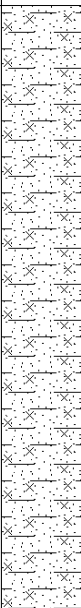
Level:

Scale  
1:50

Client: PMC

Dates: 14/07/2016 - 15/07/2016

Logged By  
G.L

| Well                                                                               | Water Strikes | Samples and In Situ Testing |      |                                    | Depth (m) | Level (m) | Legend                                                                             | Stratum Description |    |  |  |  |  |  |
|------------------------------------------------------------------------------------|---------------|-----------------------------|------|------------------------------------|-----------|-----------|------------------------------------------------------------------------------------|---------------------|----|--|--|--|--|--|
|                                                                                    |               | Depth (m)                   | Type | Results                            |           |           |                                                                                    |                     |    |  |  |  |  |  |
|  |               | 9.50 - 9.60                 | ES   | PID=2<br>N=50 (10,15/50 for 125mm) | 14.00     |           |  |                     | 11 |  |  |  |  |  |
|                                                                                    |               | 10.50                       | D    |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 11.00                       |      |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 11.00                       | D    |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 11.00 - 11.10               | ES   |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 12.00                       | D    | PID=3<br>N=50 (8,13/50 for 145mm)  |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 12.50                       |      |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 12.50                       | D    |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 12.60                       | ES   |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 13.50                       | D    | PID=3                              |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 14.00                       |      | N=50 (2,2/5,9,15,21)               |           |           |                                                                                    |                     |    |  |  |  |  |  |
|                                                                                    |               | 14.00                       | D    |                                    |           |           |                                                                                    |                     |    |  |  |  |  |  |
| End of borehole at 14.00 m                                                         |               |                             |      |                                    |           |           |                                                                                    |                     | 14 |  |  |  |  |  |
|                                                                                    |               |                             |      |                                    |           |           |                                                                                    |                     | 15 |  |  |  |  |  |
|                                                                                    |               |                             |      |                                    |           |           |                                                                                    |                     | 16 |  |  |  |  |  |
|                                                                                    |               |                             |      |                                    |           |           |                                                                                    |                     | 17 |  |  |  |  |  |
|                                                                                    |               |                             |      |                                    |           |           |                                                                                    |                     | 18 |  |  |  |  |  |
|                                                                                    |               |                             |      |                                    |           |           |                                                                                    |                     | 19 |  |  |  |  |  |
|                                                                                    |               |                             |      |                                    |           |           |                                                                                    |                     | 20 |  |  |  |  |  |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Groundwater seepage at 1.90m bgl strike at 7.60m bgl.

# Borehole Log

Borehole No.

**WS101**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:25

Client: PMC

Dates: 14/07/2016 - 14/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |                            | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                    |   |
|------|---------------|-----------------------------|------|----------------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results                    |           |           |        |                                                                                                                                                        |   |
|      |               |                             |      |                            | 0.10      |           |        | Asphalt cover.                                                                                                                                         |   |
|      |               | 0.20 - 0.30                 | ES   | PID=5                      | 0.30      |           |        | MADEGROUND<br>Black, gravelly SAND. Sand is medium to coarse. Gravel is sub angular to sub rounded, fine to medium flint, brick, concrete and asphalt. |   |
|      |               | 0.40 - 0.50                 | ES   |                            |           |           |        | MADEGROUND<br>Soft, dark brown mottled grey gravelly CLAY. Gravel is sub angular to sub rounded fine to medium flint and brick.                        |   |
|      |               |                             |      |                            | 0.80      |           |        | CLAY<br>Soft to firm, brown very gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint.                                                | 1 |
|      |               | 1.20                        |      | N=24 (7,5/6,6,7,5)         |           |           |        |                                                                                                                                                        |   |
|      |               | 1.40 - 1.50                 | ES   |                            | 1.40      |           |        | SAND<br>Brownish grey, clayey SAND. Sand is fine to medium.                                                                                            |   |
|      |               |                             |      |                            | 1.80      |           |        | SAND<br>Very loose, brownish yellow, clayey SAND.                                                                                                      | 2 |
|      |               | 2.00                        |      | PID=1<br>N=9 (2,2/2,2,2,3) |           |           |        |                                                                                                                                                        |   |
|      |               |                             |      |                            | 3.00      |           |        | N=13 (2,2/2,2,4,5)                                                                                                                                     | 3 |
|      |               |                             |      | PID=4                      |           |           |        | @3.20m bgl strong hydrocarbon odour present.                                                                                                           |   |
|      |               | 3.70 - 3.80                 | ES   |                            | 3.80      |           |        | SAND<br>Loose, yellowish brown slightly gravelly, clayey SAND. Sand is fine to medium. Gravel is sub angular to sub rounded, fine to coarse flint.     | 4 |
|      |               | 4.00                        |      | N=23 (5,2/3,6,6,8)         |           |           |        |                                                                                                                                                        |   |
|      |               | 4.80                        | ES   |                            | 4.80      |           |        | CLAY<br>Soft to firm, grey CLAY.                                                                                                                       |   |
|      |               | 5.00                        |      | N=13 (2,1/2,4,3,4)         | 5.00      |           |        | End of borehole at 5.00 m                                                                                                                              | 5 |

Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance survey.



10 Manor Court  
2 Barnes Wallis Road  
Segensworth  
Fareham  
PO15 5TH

# Borehole Log

Borehole No.

**WS102**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:25

Client: PMC

Dates: 13/07/2016 - 13/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                            | Stratum Description                |   |
|------|---------------|-----------------------------|------|---------|-----------|-----------|-----------------------------------------------------------------------------------|------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |           |           |                                                                                   |                                    |   |
|      |               |                             |      |         | 0.30      |           |  | MADEGROIND<br>Reinforced concrete. |   |
|      |               |                             |      |         |           |           |                                                                                   | -----<br>End of borehole at 0.30 m |   |
|      |               |                             |      |         |           |           |                                                                                   |                                    | 1 |
|      |               |                             |      |         |           |           |                                                                                   |                                    | 2 |
|      |               |                             |      |         |           |           |                                                                                   |                                    | 3 |
|      |               |                             |      |         |           |           |                                                                                   |                                    | 4 |
|      |               |                             |      |         |           |           |                                                                                   |                                    | 5 |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey. Window Sample Location Terminated at 0.3 due to concrete obstruction.



# Borehole Log

Borehole No.

**WS103**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

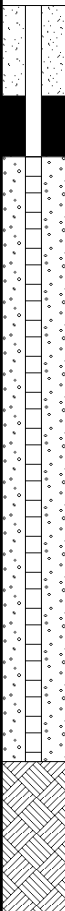
Level:

Scale  
1:25

Client: PMC

Dates: 14/07/2016 - 14/07/2016

Logged By  
K.D

| Well                                                                               | Water Strikes                                                                     | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend                                                                            | Stratum Description                                                                                                                          |   |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|------|--------------------|-----------|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                   | Depth (m)                   | Type | Results            |           |           |                                                                                   |                                                                                                                                              |   |
|  |  | 0.15                        |      |                    | 0.15      |           |  | MADEGROUND<br>Reinforced concrete. black plastic membrane.                                                                                   | 1 |
|                                                                                    |                                                                                   | 0.30 - 0.40                 | ES   |                    | 0.40      |           |  | MADEGROUND<br>Orangey brown, gravelly SAND. Sand is medium to coarse. Gravel is sub angular to sub rounded, fine to flint.                   |   |
|                                                                                    |                                                                                   | 0.50 - 0.60                 | ES   |                    | 0.50      |           |  | MADEGROUND<br>Very dark brown, gravelly SAND. Sand is medium to coarse. Gravel is sub angular to sub rounded fine to coarse flint and brick. |   |
|                                                                                    |                                                                                   | 0.80 - 0.90                 | ES   |                    |           |           |  | CLAY<br>Firm to stiff, brown, very gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint.                                    | 2 |
|                                                                                    |                                                                                   | 1.20                        |      | N=18 (4,3/3,4,5,6) | 1.30      |           |  |                                                                                                                                              |   |
|                                                                                    |                                                                                   |                             |      |                    |           |           |  | CLAY<br>Dense, grey, slightly sandy GRAVEL. Sand is fine to medium. Gravel is angular to sub rounded, fine to coarse flint.                  |   |
|                                                                                    |                                                                                   | 2.00                        |      | N=34 (6,8/7,9,9,9) | 2.20      |           |  |                                                                                                                                              | 3 |
|                                                                                    |                                                                                   |                             |      |                    |           |           |  | CLAY<br>Soft, brown, very gravelly CLAY. Gravel is sub angular to sub rounded fine to coarse flint.                                          |   |
|                                                                                    |                                                                                   | 2.70 - 2.80                 | ES   |                    | 2.70      |           |  | SAND<br>Loose, greenish brown, clayey SAND. Sand is fine to medium. Black staining present throughout unit.                                  |   |
|                                                                                    |                                                                                   |                             |      |                    | 3.00      |           | End of borehole at 3.00 m                                                         |                                                                                                                                              | 4 |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Window sample terminated at 3.00m bgl due to back filling gravel. Undertook continuous SPT to 5.00m bgl.

# Borehole Log

Borehole No.

**WS104**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

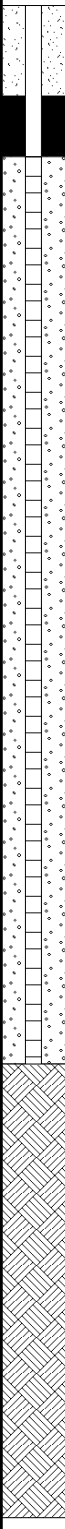
Level:

Scale  
1:25

Client: PMC

Dates: 13/07/2016 - 13/07/2016

Logged By  
K.D

| Well                                                                               | Water Strikes                                                                     | Samples and In Situ Testing |      |                     | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                                                                                          |   |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|------|---------------------|-----------|-----------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                   | Depth (m)                   | Type | Results             |           |           |        |                                                                                                                                                                                                                                              |   |
|  |  | 0.15                        |      |                     | 0.15      |           |        | MADEGROUND<br>Reinforced concrete.                                                                                                                                                                                                           | 1 |
|                                                                                    |                                                                                   | 0.30 - 0.40                 | ES   |                     |           |           |        | MADEGROUND<br>Soft, yellowish brown, gravelly CLAY. Gravel is sub angular to sub rounded. fine to coarse flint and brick. Occasional white sandy clay lenses present throughout unit. Occasional black staining present.                     |   |
|                                                                                    |                                                                                   | 0.60 - 0.70                 | ES   |                     |           |           |        |                                                                                                                                                                                                                                              | 2 |
|                                                                                    |                                                                                   | 1.20                        |      | N=1 (0,0/0,0,0,1)   | 1.20      |           |        | MADEGROUND<br>Soft, blackish brown, slightly gravelly peaty CLAY. Gravel is sub angular to sub rounded fine to coarse flint and brick. Peat is localised throughout unit<br><i>@ 1.2m bgl slight hydrocarbon odour present in the water.</i> |   |
|                                                                                    |                                                                                   | 1.30 - 1.40                 | ES   | PID=0               |           |           |        |                                                                                                                                                                                                                                              | 3 |
|                                                                                    |                                                                                   | 2.00                        |      | N=0 (0,0/0,0,0,0)   |           |           |        | MADEGROUND<br>Soft, brownish grey, slightly gravelly CLAY. Gravel is sub angular to sub rounded fine to medium flint and brick.                                                                                                              |   |
|                                                                                    |                                                                                   | 2.20 - 2.30                 | ES   |                     | 2.20      |           |        |                                                                                                                                                                                                                                              | 4 |
|                                                                                    |                                                                                   | 3.00                        |      | N=21 (3,8/2,3,2,14) | 3.00      |           |        | MADEGROUND<br>Loose, black, sandy GRAVEL. Sand is medium to coarse. Gravel is sub angular to sub rounded fine to coarse flint brick and wood.                                                                                                |   |
|                                                                                    |                                                                                   | 3.10 - 3.20                 | ES   | PID=2               |           |           |        |                                                                                                                                                                                                                                              | 5 |
|                                                                                    |                                                                                   | 4.00                        |      | N=22 (3,8/6,6,4,6)  |           |           |        | MADEGROUND<br>Soft to firm, grey, sandy gravelly CLAY. Sand is fine to coarse. Gravel is sub angular to sub rounded fine to medium flint, shell fragments and brick.                                                                         |   |
|                                                                                    |                                                                                   | 4.70 - 4.80                 | ES   | PID=4               | 4.50      |           |        |                                                                                                                                                                                                                                              |   |
|                                                                                    |                                                                                   | 5.00                        |      | N=12 (3,2/2,3,3,4)  | 5.00      |           |        | End of borehole at 5.00 m                                                                                                                                                                                                                    |   |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Groundwater strike at 1.1m bgl.

# Borehole Log

Borehole No.

**WS105**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:25

Client: PMC

Dates: 13/07/2016 - 13/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                      |   |
|------|---------------|-----------------------------|------|--------------------|-----------|-----------|--------|------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results            |           |           |        |                                                                                                                                          |   |
|      |               |                             |      |                    | 0.15      |           |        | MADEGROUND<br>Brick paving.                                                                                                              |   |
|      |               | 0.30 - 0.40                 | ES   |                    |           |           |        | MADEGROUND<br>Brownish red, sandy GRAVEL. Sand is medium to coarse. Gravel is sub angular to sub rounded, fine to coarse brick.          |   |
|      |               | 0.60 - 0.70                 | ES   |                    |           |           |        |                                                                                                                                          |   |
|      |               |                             |      |                    | 0.90      |           |        | MADEGROUND<br>Brick rubble.                                                                                                              | 1 |
|      |               | 1.10                        | ES   |                    | 1.00      |           |        | CLAY<br>Firm brownish grey, very gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint.                                  |   |
|      |               | 1.20                        |      | N=17 (2,5/4,5,4,4) |           |           |        |                                                                                                                                          |   |
|      |               | 1.40 - 1.50                 | ES   |                    |           |           |        |                                                                                                                                          |   |
|      |               |                             |      |                    | 2.00      |           |        | CLAY<br>Soft, yellowish brown, sandy, gravelly CLAY. Sand is fine to coarse. Gravel is sub angular to sub rounded, fine to coarse flint. | 2 |
|      |               | 2.00                        |      | N=6 (1,0/0,0,2,4)  | 2.00      |           |        | SAND<br>Soft, black clayey SAND. Sand is fine to medium.                                                                                 |   |
|      |               | 2.40 - 2.50                 | ES   |                    | 2.30      |           |        | SAND<br>Greenish grey, clayey SAND. Sand is fine to medium.                                                                              |   |
|      |               |                             |      |                    | 2.50      |           |        |                                                                                                                                          |   |
|      |               |                             |      |                    | 2.90      |           |        | SAND<br>Black, clayey SAND. Sand is fine to medium. Hydrocarbon odour present throughout unit.                                           | 3 |
|      |               | 3.00                        |      | N=7 (1,1/2,2,1,2)  | 3.20      |           |        |                                                                                                                                          |   |
|      |               | 3.70 - 3.80                 | ES   |                    |           |           |        |                                                                                                                                          |   |
|      |               | 4.00                        |      | N=22 (2,4/5,6,5,6) |           |           |        |                                                                                                                                          |   |
|      |               |                             |      |                    |           |           |        | End of borehole at 4.00 m                                                                                                                | 4 |
|      |               |                             |      |                    |           |           |        |                                                                                                                                          | 5 |

Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
No groundwater present.

# Borehole Log

Borehole No.

**WS106**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:25

Client: PMC

Dates: 14/07/2016 - 14/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |                     | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                      |   |
|------|---------------|-----------------------------|------|---------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results             |           |           |        |                                                                                                                                                                          |   |
|      |               | 0.20                        | ES   |                     | 0.20      |           |        | MADEGROUND<br>Concrete cover.                                                                                                                                            |   |
|      |               |                             |      |                     |           |           |        | MADEGROUND<br>Very loose greyish brown sandy GRAVEL. Sand is medium to coarse. Gravel is sub angular to sub rounded fine to frequent cobble of flint concrete and brick. |   |
|      |               | 1.20                        |      | N=22 (1,2/3,4,6,9)  | 1.00      |           |        | No recovery.                                                                                                                                                             | 1 |
|      |               | 2.00<br>2.00 - 2.40         | ES   | N=4 (1,2/2,1,0,1)   | 2.00      |           |        | MADEGROUND<br>Soft, black, gravelly CLAY. Gravel is sub angular to sub rounded , fine to coarse flint, brick concrete and wood.                                          | 2 |
|      |               | 3.00                        |      | N=13 (2,1/1,1,1,10) |           |           |        |                                                                                                                                                                          | 3 |
|      |               |                             |      |                     | 3.70      |           |        | End of borehole at 3.70 m                                                                                                                                                | 4 |
|      |               |                             |      |                     |           |           |        |                                                                                                                                                                          | 5 |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.

Groundwater strike at 1.00m bgl

Hole terminated due to refusal at 3.70m bgl Potential hitting the concrete base of gas cylinder.

# Borehole Log

Borehole No.

**WS107**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:50

Client: PMC

Dates: 14/07/2016 - 14/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |                        | Depth (m)    | Level (m) | Legend | Stratum Description                                                                                                                                                               |   |
|------|---------------|-----------------------------|------|------------------------|--------------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results                |              |           |        |                                                                                                                                                                                   |   |
|      |               | 0.10 - 0.20                 |      |                        | 0.10<br>0.20 |           |        | MADEGROUND<br>Reinforced concrete.                                                                                                                                                |   |
|      |               | 0.20 - 0.30                 |      |                        | 0.20<br>0.30 |           |        | MADEGROUND<br>Brick rubble.                                                                                                                                                       |   |
|      |               | 0.30 - 0.40                 | ES   | PID=1                  |              |           |        | MADEGROUND<br>Brown, gravelly SAND. Sand is fine to coarse. Gravel is sub angular to sub rounded. fine to coarse flint, brick, concrete and burnt material.                       | 1 |
|      |               | 0.40 - 0.60                 | ES   |                        |              |           |        | MADEGROUND<br>Soft brown mottled grey, gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint, chalk and brick. Occasional black staining present throughout unit. |   |
|      |               | 0.60 - 0.70                 |      |                        |              |           |        | @ 1.00-2.00m bgl poor recovery.                                                                                                                                                   | 2 |
|      |               | 1.20                        |      | N=4 (1,1/1,1,1,1)      | 1.20         |           |        | MADEGROUND<br>Grey slightly sandy clayey GRAVEL. Sand is medium to coarse. Gravel is sub angular to sub rounded, fine to coarse flint, brick, ceramic sandstone and wood.         |   |
|      |               | 2.00                        |      | N=0 (0,0/0,0,0,0)      | 2.10         |           |        | MADEGROUND<br>Soft grey, slightly gravelly slightly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded, fine to coarse flint.                               | 3 |
|      |               | 2.60 - 2.70                 | ES   | PID=2                  |              |           |        | MADEGROUND<br>Soft blueish grey, gravelly CLAY. Gravel is sub angular to sub rounded, fine to coarse flint, brick and wood.                                                       | 4 |
|      |               | 3.00                        |      | N=10 (0,0/0,0,0,10)    | 3.20         |           |        | End of borehole at 4.00 m                                                                                                                                                         |   |
|      |               | 4.00                        |      | PID=2                  |              |           |        |                                                                                                                                                                                   |   |
|      |               | 4.00                        | ES   | N=65 (4,0/25,15,15,10) | 4.00         |           |        |                                                                                                                                                                                   |   |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Groundwater strike at 1.00m bgl

# Borehole Log

Borehole No.

**WS108**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

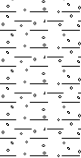
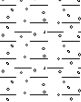
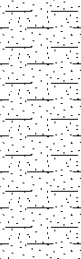
Level:

Scale  
1:25

Client: PMC

Dates: 13/07/2016 - 13/07/2016

Logged By  
K.D

| Well                                                                               | Water Strikes                                                                       | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend                                                                              | Stratum Description                                                                                                                             |   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|------|--------------------|-----------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                                                                    |                                                                                     | Depth (m)                   | Type | Results            |           |           |                                                                                     |                                                                                                                                                 |   |
|  |  |                             |      |                    | 0.20      |           |    | MADE GROUND<br>Reinforced concrete.                                                                                                             | 1 |
|                                                                                    |                                                                                     | 0.30 - 0.40                 | ES   |                    | 0.30      |           |    | MADE GROUND<br>Pinkish grey, gravelly SAND. Sand is medium to coarse. Gravel is angular to subrounded, fine to coarse, flint (Type 1 material). |   |
|                                                                                    |                                                                                     | 0.70 - 0.80                 | ES   |                    | 0.80      |           |    | MADE GROUND<br>Friable, orangey brown, gravelly CLAY. Gravel is angular to sub rounded, fine to coarse flint, brick, plastic and clinker.       |   |
|                                                                                    |                                                                                     | 0.90 - 1.00                 | ES   |                    |           |           |    | CLAY<br>Firm, orangey brown, gravelly CLAY. Gravel is angular to subrounded, fine to coarse flint.                                              | 2 |
|                                                                                    |                                                                                     | 1.20                        |      | N=25 (4,6/7,6,6,6) |           |           |    | @ 1.60m bgl slight decrease in gravel content.                                                                                                  |   |
|                                                                                    |                                                                                     | 1.80 - 2.00                 | D    |                    |           |           |   |                                                                                                                                                 |   |
|                                                                                    |                                                                                     | 2.00                        |      | N=18 (2,3/3,4,5,6) | 2.00      |           |  | SAND<br>Loose, orangey yellow, clayey SAND. Sand is fine to medium.                                                                             | 3 |
|                                                                                    |                                                                                     | 2.00 - 2.10                 | ES   |                    | 2.30      |           |  | SAND<br>Loose orangey brown SAND. Sand is fine to medium.                                                                                       |   |
|                                                                                    |                                                                                     | 2.40 - 2.50                 | ES   |                    |           |           |  | @ 3.40m bgl sand colour becomes greyish orange.                                                                                                 |   |
|                                                                                    |                                                                                     | 3.00                        |      | N=8 (1,1/2,2,2,2)  | 3.60      |           |  | SAND<br>Loose, mottled orange clayey SAND. Sand is fine to medium.                                                                              | 4 |
|                                                                                    |                                                                                     | 3.60 - 3.70                 | ES   |                    | 4.50      |           |  | CLAY<br>Firm, grey CLAY.                                                                                                                        |   |
|                                                                                    |                                                                                     | 4.00                        |      | N=9 (1,1/1,2,2,4)  |           |           |  |                                                                                                                                                 |   |
|                                                                                    |                                                                                     | 4.50 - 4.60                 | ES   |                    |           |           |                                                                                     |                                                                                                                                                 | 5 |
|                                                                                    |                                                                                     | 4.50 - 4.70                 | D    |                    |           |           |                                                                                     |                                                                                                                                                 |   |
|                                                                                    |                                                                                     | 5.00                        |      | N=13 (2,2/3,3,3,4) | 5.00      |           |                                                                                     | End of borehole at 5.00 m                                                                                                                       |   |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Groundwater strike at 2.6m bgl



10 Manor Court  
2 Barnes Wallis Road  
Segensworth  
Fareham  
PO15 5TH

# Borehole Log

Borehole No.

**WS109**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:25

Client: PMC

Dates: 15/07/2016 - 15/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                               |   |
|------|---------------|-----------------------------|------|---------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results |           |           |        |                                                                                                                                   |   |
|      |               | 0.20 - 0.30                 | ES   |         | 0.20      |           |        | MADE GROUND<br>Reinforced concrete.                                                                                               |   |
|      |               | 0.60 - 0.70                 | ES   |         | 0.40      |           |        | MADE GROUND<br>Soft, very dark brown, gravelly CLAY. Gravel is subangular to subrounded, fine to coarse flint, brick and asphalt. |   |
|      |               |                             |      |         | 0.90      |           |        | MADE GROUND<br>Soft, brown, gravelly CLAY. Gravel is subangular to subrounded, fine to medium flint and asphalt.                  |   |
|      |               |                             |      |         | 1.00      |           |        | MADE GROUND<br>Orangey brown, medium to coarse SAND.<br>(Builders Sand)                                                           | 1 |
|      |               |                             |      |         |           |           |        | End of borehole at 1.00 m                                                                                                         |   |
|      |               |                             |      |         |           |           |        |                                                                                                                                   | 2 |
|      |               |                             |      |         |           |           |        |                                                                                                                                   | 3 |
|      |               |                             |      |         |           |           |        |                                                                                                                                   | 4 |
|      |               |                             |      |         |           |           |        |                                                                                                                                   | 5 |

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.

No Groundwater present.

Hole terminated due to the presence of builders sand within the bottoms of the hand pit and the close proximity gas pipe noted on maps.



# Borehole Log

Borehole No.

**WS109A**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:25

Client: PMC

Dates: 15/07/2016 - 15/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                      |   |
|------|---------------|-----------------------------|------|--------------------|-----------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results            |           |           |        |                                                                                                                                                                          |   |
|      |               |                             |      |                    | 0.20      |           |        | MADE GROUND<br>Reinforced concrete.                                                                                                                                      |   |
|      |               | 0.30 - 0.40                 | ES   | PID=6              | 0.40      |           |        | MADE GROUND<br>Soft, brown, gravelly CLAY. Gravel is subangular to subrounded, fine to coarse flint and brick.                                                           |   |
|      |               | 0.60 - 0.70                 | ES   |                    |           |           |        | MADE GROUND<br>Black, gravelly SAND. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse with occasional cobble content of concrete.            | 1 |
|      |               | 1.20                        |      | N=16 (3,5/4,4,5,3) | 1.20      |           |        |                                                                                                                                                                          |   |
|      |               | 1.50 - 1.60                 | ES   |                    | 1.50      |           |        | MADE GROUND<br>Brick Rubble.                                                                                                                                             |   |
|      |               | 2.00                        |      | N=15 (2,2/3,3,4,5) | 2.30      |           |        | CLAY<br>Firm, brown mottled grey, very gravelly CLAY. Gravel is angular to subrounded, fine to coarse flint. With occasional fine to medium grained sand lenses present. | 2 |
|      |               | 3.00                        |      | N=10 (2,2/2,3,2,3) |           |           |        | SAND<br>Loose, yellowish brown, slightly clayey SAND. Sand is fine to medium. Black staining present throughout unit.                                                    | 3 |
|      |               | 3.70 - 3.80                 | ES   |                    |           |           |        |                                                                                                                                                                          |   |
|      |               | 4.00                        |      | N=17 (3,1/2,2,5,8) | 4.30      |           |        |                                                                                                                                                                          |   |
|      |               | 4.60 - 4.70                 | ES   |                    |           |           |        | SAND<br>Loose, grey clayey SAND. Sand is fine to medium. Black staining present with a strong hydrocarbon odour.                                                         | 4 |
|      |               | 5.00                        |      | N=19 (5,6/4,5,4,6) | 5.00      |           |        |                                                                                                                                                                          | 5 |

End of borehole at 5.00 m

## Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
No Groundwater present.

# Borehole Log

Borehole No.

**WS110**

Sheet 1 of 1

Project Name: Wessex Yard, Havant

Project No.  
A10708

Co-ords: -

Hole Type  
WS

Location: Havant

Level:

Scale  
1:50

Client: PMC

Dates: 15/07/2016 - 15/07/2016

Logged By  
K.D

| Well | Water Strikes | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend                                                                            | Stratum Description                                                                                                                |    |
|------|---------------|-----------------------------|------|---------|-----------|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----|
|      |               | Depth (m)                   | Type | Results |           |           |                                                                                   |                                                                                                                                    |    |
|      |               |                             |      |         | 0.20      |           |  | MADE GROUND<br>Reinforced concrete.                                                                                                |    |
|      |               |                             |      |         | 0.50      |           |  | MADE GROUND<br>Grey, sandy GRAVEL. Sand is medium to coarse. Gravel is subangular to subrounded, fine to coarse flint and asphalt. |    |
|      |               |                             |      |         |           |           |  | CLAY<br>Firm, brown gravelly CLAY. Gravel is subangular to subrounded, fine to coarse flint.                                       | 1  |
|      |               |                             |      |         | 2.00      |           |  | SAND<br>Loose, yellowish brown clayey SAND. Sand is fine to medium.                                                                | 2  |
|      |               |                             |      |         | 2.50      |           |  | GRAVEL<br>Yellowish brown sandy GRAVEL. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse flint.             |    |
|      |               |                             |      |         | 2.70      |           |  | SAND<br>Yellowish brown, clayey SAND. Sand is fine to medium.                                                                      | 3  |
|      |               |                             |      |         | 3.00      |           |                                                                                   | End of borehole at 3.00 m                                                                                                          |    |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 4  |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 5  |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 6  |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 7  |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 8  |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 9  |
|      |               |                             |      |         |           |           |                                                                                   |                                                                                                                                    | 10 |

Remarks

Cleared by Cable Avoidance Tool (CAT) and utilities clearance Survey.  
Groundwater strike at 1.00m bgl