Borehole Project No Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer BH3 ROLTON GROUP PC124991

Client ROLTON GROUP Ground Level 43.78 m OD

| Sampling | ON GROUE | • | Prope | rties | | Strata | a | | | | | | Oround | Level 43 | Scale 1 | m OD :50 |
|------------|----------------|--------------------------------|-----------------|--------|----------|--------------|-------------------|----------------------|-------------------|---------------------------|--------------------|----------------|--------|-----------------|---------|---------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 30.20 | - - D | | | | | At 30 | 0.20m, sed, subl | fissures norizont | become al, smo | extrements of the extreme | mely cl ill and | osely clean | with / | 30.20 | | 13.5 |
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| oring Hole | + | | | · | Progre | ess Denth | Denth to | I . | 1_ | | ndw at e | | in | Denth | Rema | rks on |
| epth Dia | | Technique | е | Crew | of Hole | Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | Mins | Depth Sealed | Groun | dwater |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| emarks 🚜 | <u> </u> | | | | <u> </u> | | | | 1 | l | | | | Logo | ed by | sc/co |

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure

4 of 4 20/09/2012



Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Project No

Client ROLTON GROUP

| Hole | Depth | Level | Type | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' | Uı | ncorrect | ed SP | Г |
|---------------|-------|-------|-------|---------|------------------|--------------------|------------------|--------------------|---------------------|---------------------|----------------|-----------|--|-------|-------------|
| 11010 | m bgl | m OD | .,,,, | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | Value | 10 | 'N' 20 30 | 40 | 50 |
| 3H3 | 1.20 | 42.58 | S | - | 1 | - | 2 | 1 | 3 | 4 | 10 | * | | | |
| BH3 | 4.20 | 39.58 | S | - | 1 | 3 | 3 | 3 | 4 | 5 | 15 | * | | - | - |
| 3H3 | 7.20 | 36.58 | S | - | 3 | 3 | 4 | 5 | 6 | 6 | 21 | 1 | * ! | 1 | I I |
| 3H3 | 10.20 | 33.58 | S | - | 3 | 10 | 10 | 9 | 10 | 12 | 41 | | | * | I I |
| 3H3 | 13.20 | 30.58 | S | - | 4 | 5 | 6 | 7 | 7 | 9 | 29 | | * | | - |
| 3H3 | 16.20 | 27.58 | S | - | 4 | 5 | 5 | 7 | 7 | 8 | 27 | | * | | |
| 3H3 | 19.20 | 24.58 | S | - | 4 | 5 | 8 | 8 | 10 | 12 | 38 | | | * | ÷ |
| 3H3 | 22.20 | 21.58 | | - | 5 | 8 | 10 | 9 | 10 | 14 | 43 | | | * | |
| 3H3 | 25.20 | 18.58 | S | - | 6 | 10 | 12 | 14 | 11 | 13/70 | 50/295 | | | 1 | > |
| 3H3 | 28.20 | 15.58 | S | - | 5 | 10 | 14 | 14 | 15 | 7/55 | 50/280 | ! | 1 1 | 1 | - |
| Driller | | | Chris | Rainshi | ırv | | Remar | Ks | | | | | | | |
| Driller | | | | Rainsbu | iry | | Equipm | ent check | ked and c | alibration | carried out in | n accorda | nce with | BS EN | ISO |
| Hammer No. | | | SDS0 | | | | 22476- | | | | | | | | |
| Energy Ratio | | | 81.00 | | | | | | | | | | | | |
| Calibration D |)ate | | 13/02 | /2012 | | | | | | | | | | | |

^{-/-} Blows/penetration (mm) after seating



PC124991

^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

Engineer Borehole BH4 BACTON LOW RISE, GOSPEL OAK, NORTH ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 41.65 m OD

| cale 1:50 | S | | | | | | a | Strat | | rties | Prope | | | ng | Sampli |
|---|------------------|------------|--|--|--|--|--|--|--------------------------|--------|-----------------|--------------------------------|------------------|----------|-------------------------------|
| Legend Level m OI | Depth | | | | | | otion | Descri | SPT N | w % | Strength kPa | Depth Cased & (to Water) | Sample Type | | Depth |
| 41.0 | G.L. 0.10 | | | | | D1 | ac. ** E GROUNI | | | | | | | | |
| 41. | 0.30 | / | | ** | rcing. | h reinfo | | Conc | | | | | B D E | 0.60 | 0.30- 0.30 0.30 |
| 40.! | 1.10 | ith k | d grey and orar ravelly clay wi size) of black angular to ite, flint and of claystone. | htly gra 3mm in s vel is a quartzit | y slig up to s. Gra edium D] | prown, longitude of the control of t | light light light, slight light ligh | Firm brown occas carbo subro calca [PRO] | s9 | | | 1.20 (DRY) | D E D D | 1.65 | 1.00 1.00 1.10 1.20- |
| 39.0 | 2.00 | - <i>l</i> | brown locally tled slightly s s angular to eous siltstone. | wn mottl avel is | ge bro AY. Gr | and oran | sh grey ntly gra | blui: | | | | | D E | | 2.00 |
| | | n | nd orange brown n parts. | | lamin | | Led CLA | mott: | | 34 | 67 | 1.20 (DRY) | U40 | 3.15 | 2.70- |
| | - - - - | | medium to coars ures are extrem ntated. | . Fissur | ystals | | sized 9 | sand | | | | | D | | 3.15 |
| | - | | | | | | | | | | | | | | |
| | - - - | | | | | | | | s11 | | | 1.50 (DRY) | D | 4.65 | 4.20- |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 1.50 (DRY) | บ70 | 6.15 | 5.70- |
| | | | some | ace on s | d surf | , polishe | w 6.15m ontinui | | | | | | D | | 6.15 |
| | <u>-</u> | | | | | | | | s15 | | | 1.50 | D | 7.65 | 7.20- |
| 34.: | 7.50 | | brownish grey | re extre | ures a | LAY. Fis: | ceous C | mica | | | | (DRY) | В | 8.00 | 7.70- |
| | | hite | ed with rare wh | | | ed rando ys on son | | | | | | | | | |
| | | | | | | | | | | | | 1.50 (DRY) | UT90 | 9.15 | 8.70- |
| | | edium | k grey silt o subrounded me | | faces. | some sur | ings on | dust | | | | | D | | 9.15 |
| | | | d fragments of ltstone. | e sized | cobbl | ravel and | oarse gr | to c | | | | | D | | 9.60 |
| | | | ndw at er | Ground | 1 | | | SS | Progre | | | | | | orina |
| Remarks on | Depth | in | Depth Rose to | Depth | Timo | Data | Depth to | Depth | Depth | Crow | , | Technique | | Hole | Ť |
| Groundwater one encountereduring boring. | N | Mins | Cased | | 08:00 | 21/08/1 | | | G.L. | DC | , | ion Pit | nspect |] | 1.20 |
| נ | Sealed | | d fragments of ltstone. | e sized ous silt | Time 08:00 18:00 | Date 21/08/1: | Depth to Water DRY | SS Depth Cased | of Hole G.L. 20.00 | DC | on | ercussi | nspect able P | Dia 0.15 | Boring Depth 1.20 20.00 |

Remarks
Inspection pit hand excavated to 1.20m depth, 0.5 hours breaking out concrete.

*** Drillers description.

Symbols and abbreviations are explained on the accompanying key sheet.

*** Drillers description.

E sample = 1 x vial, 1 x plastic jar and 1 amber jar

A 50mm standpipe was installed to 5.00m with a geowrapped slotted section from 2.00m to 5.00m with flush lockable protective cover. Backfill details from base of hole: arisings up to 7.00m, bentonite seal up to 5.00m, gravel filter up to 2.00m, bentonite seal up to 0.30m, concrete up to ground level. esimbeloeg

Logged in accordance with BS5930:1999 + A2:2010

key sheet. All dimensions are in metres.

Logged by NT/CO

Figure

Project BACTON LOW RISE, GOSPEL OAK, NORTH Engineer ROLTON GROUP BOTEL NO. PC124991

Client ROLTON GROUP Ground Level 41.65 m OD

| Sampling | | | Prope | rties | | Strata | a | | | | | | | | Scale 1: | 50 |
|------------------|----------------|--------------------------------|-----------------|--------|---------------|----------------|-------------------|------------------------|--------------------|---------------------|-------------------|--------------------|---------------|----------------------|-----------------|----------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| | - | | | | | | | | | | | | | - | | |
| 0.20-10.65 | D | 1.50 (DRY) | | | S26 | | | | | | | | | Ē | | |
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| | - | | | | | | | | | | | | | ‡ | | |
| 1.70-12.15 | T U100 | 1.50 | | | | | | | | | | | | F | | |
| | _ | (DRY) | | | | | | | | | | | | L | | |
| 2.15 | - D | | | | | | | | | | | | | ‡ | | |
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| 3.20-13.65 | D | 1.50 (DRY) | | | S25 | | | | | | | | | Ę. | | |
| | Ė | (DRI) | | | | | | | | | | | | Ė | | |
| | - | | | | | | | | | | | | | ‡ | | |
| | _ | | | | | | | | | | | | | F | | |
| | | | | | | | | | | | | | | <u> </u> | | |
| | | | | | | | | | | | | | | + | | |
| 4.70-15.15 | _ U110 - | 1.50 (DRY) | | | | | | | | | | | | Į. | | |
| 5.15 | _ - - р | | | | | Belov | w 15.15r | n, becom | ing sti | ff to t | ery st | iff and | grey | | | |
| 5.50 | _ D | | | | | and i | DIOWILLSI | i grey ii | ii colou | ı . | | | | ‡ | | |
| 3.30 | | | | | | | | | | | | | | E | | |
| | _ | | | | | | | | | | | | | Ł | | |
| | - | | | | | | | | | | | | | ‡ | | |
| 6.40-16.85 | D | 1.50 | | | s31 | shell | l fragme | 10-16.851 ents and | rare c | rare f range b | ine gr crown s | avel si ilt dus | zed tings | <u> </u> | | |
| | Ė | (DRY) | | | | on so | ome disc | continui | ties. | | | | | Ė | | |
| | _ | | | | | | | | | | | | | <u> </u> | | |
| | Ę | | | | | | | | | | | | | Į. | | |
| | Ē | | | | | | | | | | | | | ‡ | | |
| | - | | | | | | | | | | | | | ‡ | | |
| 7.90-18.35 | _UT110 | 1.50 (DRY) | | | | | | | | | | | | F | | |
| 8.35 | D | | | | | fine | to coar | n, with or se grave | occasio el size | onal and d calca | gular t areous | o subro siltsto | unded ne / | ‡ | | |
| | E | | | | | mudst | cone. | | | | | | | Ė | | |
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| | _ | | | | | | | | | | | | | F | | |
| 9.50-19.95 | D | 1.50 | | | s38 | | | | | | | | | Ė | | |
| | <u> </u> | (DRY) | | | | | | | | | | | | ‡ | | |
| | E | | | | | | | | | | | | | 20.00 | | 21. |
| oring | | | ļ | | Progre | ess | | Eı | na of B | Groun | e idwate | r | | | | |
| epth Hole Dia | | Techniqu | е | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Remar Ground | |
| | | | | | | | | | | | | | | | | |
| marks 📭 | | | | | | | | | | r | | | | | | |
| marks RGS | | | | | | | | | | | | | | Log <u>g</u> Figu | • | T/CO : of 2 |

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure



ProjectBACTON LOW RISE, GOSPEL OAK, NORTH LONDONProject NoPC124991

Client ROLTON GROUP

| Hole | Depth | Level | Type | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' | | Unco | rrecte | d SP1 | Γ |
|---------------|-------|-------|-------|---------|------------------|--------------------|------------------|--------------------|---------------------|---------------------|----------------|----|------|--------|-------|------|
| | m bgl | m OD | ,,,,, | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | Value | 10 | 20 | 'N' | 40 | 50 |
| 3H4 | 1.20 | 40.45 | S | - | 1 | 1 | 2 | 2 | 2 | 3 | 9 | * | 1 | | | |
| 3H4 | 4.20 | 37.45 | S | - | 1 | 2 | 2 | 3 | 3 | 3 | 11 | * | - | - | - | |
| 3H4 | 7.20 | 34.45 | S | - | 2 | 3 | 3 | 4 | 4 | 4 | 15 | | * | ! | 1 | - |
| 3H4 | 10.20 | 31.45 | S | - | 3 | 4 | 6 | 6 | 7 | 7 | 26 | | i | * | i | i |
| 3H4 | 13.20 | 28.45 | S | - | 3 | 4 | 6 | 6 | 6 | 7 | 25 | 1 | 1 | * | | 1 |
| 3H4 | 16.40 | 25.25 | S | - | 3 | 5 | 7 | 7 | 7 | 10 | 31 | | | * | | 1 |
| 3H4 | 19.50 | 22.15 | S | - | 3 | 10 | 8 | 9 | 10 | 11 | 38 | 1 | - | | * | |
| Driller | | | David | Cowling | J | | Remark | | | | carried out in | | | | | |
| Hammer No. | | | EQU4 | | | | 22476-3 | | | | | | | | | |
| nergy Ratio | | | 74.00 | | | | | | | | | | | | | |
| Calibration D |)ate | | 23/03 | /2012 | | | | | | | | | | | | |

^{-/-} Blows/penetration (mm) after seating



^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH5 ROLTON GROUP Project No PC124991

Client Ground Level 44.75 m OD ROLTON GROUP

| | N GROUI | Ρ | D | u4! c - | | Ct 1 | | | | | | | Ground | Level 4 | | m OD |
|--|--------------------|--------------------|-----------------|---------|----------------|----------------|-------------------|--|------------------|------------------|-------------------|--------------------|-------------|----------------------|---------------------------------------|--------------------|
| Sampling | | Denth | Prope | | T | Strata | 3 | | | | | | | T | Scale 1 | :50 |
| Depth | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 0.30- 0.90 | _ - - - в | | | | | | ac. ** E GROUN | D] | | | | | | G.L. 0.05 0.30 | , , , , , , , , , , , , , , , , , , , | 44.75 44.70 |
| 0.30 0.30 | _ D - E | | | | | | rete. * | | | | | | | /E | | |
| 0.90- 1.20 0.90 0.90 1.20- 1.65 | - B - D - E | 1.20 | | | s 6 | roots coars | . Gra | sandy gra vel is an k, flint, D] | gular | to suba | angular | fine t | | 0.90 | | 43.85 |
| 1.80 | - D | (DRY) | | | 50 | sandy angul | CLAY to | h brown m with occa subangula , becomin | sional r fine | rootle to med | ets. W dium fl | ith ran int gra | re avel. | <u> </u> | | |
| 1.90- 2.40 1.90 | — В - Е | | | | | sligh | ntly mi | caceous. | | | | | | - | | |
| 1.90- 2.35 | | 1.50 (DRY) | | | | | | | | | | | | E | | |
| 2.40- 2.85 | _ U43 | 1.50 (DRY) | | | | | | | | | | | | <u> </u> | | • |
| 2.85 | D | | | | | | | | | | | | | ‡ | | |
| 3.20 | _ - р | | | | | | | ecovered el of cla | | | to sub | angulaı | r | F | | |
| 3.30- 3.90 3.30 | - В - D | | | | | Belov | v 3.30m | , becomin el sized | g stif | f with | occasi | onal fi | irm to | Ė | | • |
| - · · · · | - | | | | | | 3 | <u></u> | | | | | | ‡ | | + |
| 3.90- 4.35 | _ _ D | 1.50 | | | S12 | | | , becomin d. Fissur | | | | | | E | | |
| | F | (DRY) | | | | extre clear | emely control | losely to occasiona | very l blac | closely | gspace | d, dull | | ‡ | | |
| | Ī. | | | | | occas | sional : | silt dust | ing. | | | | | Ē | | |
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| | <u>L</u> | | | | | | | | | | | | | <u>_</u> | | |
| | Ē | | | | | | | | | | | | | Ē | | |
| 5.40- 5.85 | บ78 | 1.50 | | | | | | | | | | | | <u> </u> | | |
| 5.85 | D | (DRY) | | | | | | , fissure ced, subh | | | | | ery | Ę. | | |
| 3.03 | <u> </u> | | | | | CIUSE | ery spa | ceu, subn | OL LZOII | car to | amver | cicai. | | <u> </u> | | |
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| 6.90- 7.35 | D | 1.50 (DRY) | | | s18 | | | | | | | | | <u> </u> | | |
| | <u> </u> | / | | | | | | | | | | | | ‡ | | • |
| | F | | | | | | | | | | | | | F | | |
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| | _ | | | | | | | , becomin | | | | | | <u> </u> | | 1 |
| 8.20 | - D | 1 | 86 | 3.0 | | dark | orangi | lour. Fis sh brown | staini: | | | | ıth | Ę. | |] |
| 8.40- 8.70 | Ξ | 1.50 (DRY) | 76 | 30 | | At 8. | .40m, h | igh stren | gtn | | | | | F | | |
| 8.70 8.90- 9.30 | - D - В | | | | | | | | | | | | | F | | |
| 0.30- 3.30 | | | | | | | | | | | | | | E | | } |
| | ļ | | | | | | | | | | | | | ‡ | | |
| | E | | | | | | | | | | | | | E | | |
| 9.90-10.35 | - D | 1.50 | | | s23 | | | | | | | | | ‡ | | |
| Boring | | (DRY) | | | Progre | 255 | | | | Grour | ndw at e | r | | | | |
| Donth Hole | | Technique | 9 | Crew | Depth | Depth | Depth to | Date | Time | Depth | Depth | Rose to | in | Depth | | rks on |
| 1.20 Dia | | tion Pit | | DC/LC | of Hole | Cased | Water | 13/08/12 | | Struck | Cased | 555 10 | Mins | Sealed | Ground None enc | dwater ountered |
| | | Percussi | | DC/LC | 25.50 25.50 | | | 13/08/12 14/08/12 | 18:00 | | | | | | during b | |
| | | | | | 30.00 | | | 14/08/12 | | | | | | | | |
| | | | | | ļ | | | | | | | | | | | |

Remarks

Inspection pit hand excavated to 1.20m depth.

** Drillers description.

E sample = 1 x vial, 1 x plastic jar and 1 amber jar

A 50mm standpipe was installed to 5.00m with a slotted section from 2.00m to 5.00m with flush lockable protective cover. Backfill details from base of hole: gravel filter up to 7.00m, bentonite seal up to 5.00m, gravel filter up to 2.00m, bentonite seal up to 0.30m, concrete up to ground level.

All dimensions Logged in accordance with BS5930:1999 + A2:2010 are in metres.

abbreviations are

explained on the accompanying

key sheet.

Symbols and

20/09/2012 وعماوطسأنع

1 of 4

Logged by

Figure

Borehole Project No Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer BH5 ROLTON GROUP PC124991

Client Ground Level 44 75

| lient _{ROLTON} o | GROUP | | Prope | rties | | Strata | <u> </u> | | | | | | Ground | Level 4 | 1.75 n Scale 1: | n OD 50 |
|---------------------------|----------|--------------------------------|----------|-------|-----------------|-------------------------|----------------------|-----------------------------------|-----------------|--------------------|-------------------|-------------------|------------|----------|--------------------|--------------|
| Donth Sa | ample | Depth Cased & (to Water) | Strength | | SPT N | Descrip | | | | | | | | Depth | Legend | Leve m Ol |
| 1.40-11.85 | 100 D | 1.50 (DRY) | 156 | 24 | | At 11 | L.85m, h | ery high becoming shell fra | slight | ly sand | ly and lae abs | with | | | | |
| 2.90-13.35 | D | 1.50 (DRY) | | | s26 | Belov thick in si | mess) a | n, with nd occas | silt p ional | artings silt po | s (up t ockets | o 1mm i (up to | n 1cm | | | |
| 4.40-14.85 U | 110 D | 1.50 (DRY) | | | | Belov fissv | v 14.85m ure suri | n, with caces. | occasio | nal bla | ack sta | ining o | n | | | |
| 6.00-16.45 | D | 1.50 (DRY) | | | s35 | | | | | | | | | - | | |
| 7.50-17.80 _U | T120 | 1.50 (DRY) | 151 | 27 | | | | chinly la very high | | | | | | | | |
| 9.00-19.45 | D | 1.50 (DRY) | | | s36 | | | | | | | | | | | |
| - | | | | | | Belov | v 20.00m | n, with c | ccasio | nal she | ell fra | gments. | | <u> </u> | | |
| oring | + | | | | Progre Depth | | Depth to | | | | dw at e | 1 1 | in | Depth | Remar | ks on |
| Remarks Remarks | | notes | | Crew | of Hole | Cased | Water | Date 6 to 28. | Om, pu | Depth Struck | Depth Cased | Rose to | in Mins | Sealed | Ground | |

2 of 4 20/09/2012

وعمايطيسانع

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH5 ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 44.75 m OD

| Sampling | | | Prope | rties | ļ | Strata | а | | | | | | | | Scale 1: | 50 |
|----------------------------|---------------------|--------------------|-----------------|----------|---------|---------------|---|-----------------------------------|---------|-----------|------------------|--|------|----------|----------|---------------|
| Depth | Sample Type | Cased & (to Water) | Strength kPa | n w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| | | , | | | | | | | | | | | | | :: | |
| | Ė | | | | | | | | | | | | | Ė | | |
| 20.50-20.80 | _U130 | 1.50 (DRY) | | | | | | | | | | | | Ę | | |
| 20.80 | D | | | | | | | | | | | | | Ė | | |
| | - | | | | | | | | | | | | | F | | |
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| | [| | | | | | | | | | | | | Ē | | |
| 22.00-22.45 | _ D | 1.50 (DRY) | | | S34 | | | | | | | | | F | | |
| | [| | | | | | | | | | | | | Į. | | |
| | - | | | | | | | | | | | | | F | | |
| | - | | | | | | | | | | | | | Į. | | |
| | _ | | | | | | | | | | | | | E | | |
| 23.50-23.95 | 11120 | 1.50 | 87 | 28 | | ⊼ + 23 | 2 50m · | with occa | agional | fine | ravol | girod g | holl | <u> </u> | | |
| 23.30-23.93 | - | (DRY) | 67 | 20 | | fragn | ments. | with occa high stre | | . IIIIe (| graver | sizeu s | nerr | E | | |
| 23.95 | - _ D | | | | | Betwe | en 23. | 95-26.62r | n, fiss | ures o | ccasion | ally | | ‡ | | |
| | F _ | | | | | P0111 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | F | | |
| | Ė | | | | | | | | | | | | | Ė | | |
| | Ē | | | | | | | | | | | | | E | | |
| 25.00-25.45 | - D | 1.50 | | | S48 | | | | | | | | | <u> </u> | | |
| | - | (DRY) | | | | | | | | | | | | <u> </u> | | |
| | E | | | | | | | | | | | | | Ē | | |
| | - | | | | | | | | | | | | | ‡ | | |
| | <u> </u> | | | | | | | | | | | | | E | | |
| | - | | | | | | | | | | | | | Ė | | |
| 26.40-26.60 | | 1.50 | | | | At 26 | 5.60m, | driller ı | notes p | resence | e of cl | aystone | | <u> </u> | | |
| 26.50-26.60 26.60-27.50 | - 130 - D - B | (DRY) | | | | bould | ier. | | | | | | | Ē | | |
| 26.80-26.80 | | 1.50 (DRY) | | | C50*/1 | | | | | | | | | <u> </u> | | |
| | <u>-</u> | (DICI) | | | | | | | | | | | | Ę. | | |
| | Ė | | | | | | | | | | | | | Ė | | |
| | - | | | | | | | | | | | | | Ļ | | |
| 28.00-28.50 28.00 | В - D | | | | | | | | | | | | | <u> </u> | | |
| 28.00-28.45 | - | 1.50 (DRY) | | | | | | | | | | | | Ė | | |
| 28.50-28.95 | _ D | 1.50 (DRY) | | | S51 | | | | | | | | | <u> </u> | | |
| | Ē | | | | | | | | | | | | | ‡ | | |
| | F | | | | | | | | | | | | | F | | |
| 20 50 22 25 | - | 1 | 15 | 00 | | 71. 00 | | | | 1 | | | | Į. | | |
| 29.50-29.95 | - - 0130 | 1.50 (DRY) | 17 | 28 | | orier | ntated | extremely and open during s | (possi | bly af: | | | У | <u> </u> | | |
| 29.95 | | | | | | At 29 | 9.95m, | during s Fissures losely sp | become | | rizonta | l and | | 30.00 | | 14.7 |
| | _ D | | | | Drogr | \At 29 | | very low | | | dwoto: | <u>, </u> | | - 30.00 | | 14.7 |
| Boring Hole | | Taabalau | | Craw | Progre | Depth | Depth to | Data | Time | Depth | ndwatei Depth | ı | in | Depth | Remar | ks on |
| Depth Dia | | Techniqu | е | Crew | of Hole | | | Date | Time | Struck | Cased | Rose to | Mins | Sealed | Ground | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 1 | 1 | | | 1 | 1 | İ | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | |

At 26.40m, UT sample shoe damaged.

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres. Logged in accordance with BS5930:1999 + A2:2010 Figure

3 of 4 20/09/2012



Borehole Project No Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer BH5 ROLTON GROUP PC124991

Client ROLTON GROUP Ground Level 44.75 $\mathsf{m}\;\mathsf{OD}$

| Sampling | | | Prope | | | Strata | а | | | | | | | | Scale 1 | :50 |
|-----------------|----------------|--------------------------------|-----------------|--------|------------------|---------|-------------------|------|---------|-----------------|----------------|----------|------------|-----------------|---------|------------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Leve m Ol |
| | _ | | | | | | | E | nd of E | orehole | e | | | _ - 30.00 | | 14.7 |
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| | - | | | | | | | | | | | | | F | | |
| ring | + | | | | Progre | SS | Donth to | | | | ndwate | | in | Donth | Pomo | ke on |
| oth Hole Dia | | Technique | е | Crew | Depth of Hole | Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | Ground | rks on dwater |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| narks 🚜 | | | | | | | | [| 1 | | <u> </u> | <u> </u> | | Logg | | SC SC |

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure

4 of 4 20/09/2012



Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Project No

Client ROLTON GROUP

| Hole | Depth | Level | Type | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' | | Un | | | d SPT | - |
|--------------|----------|----------|--|----------------|------------------|--------------------|------------------|--------------------|---------------------|---------------------|---------------|--------|--|------|-----------|-------|------|
| | m bgl | m OD | | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | Value | 1 | 0 2 | | 'N' 30 | 40 | 50 |
| 3H5 | 1.20 | 43.55 | S | - | 1 | - | 1 | 1 | 2 | 2 | 6 | * | | | | | |
| 3H5 | 3.90 | 40.85 | S | - | 2 | 3 | 3 | 3 | 3 | 3 | 12 | | * | 1 | ! | | ! |
| 3H5 | 6.90 | 37.85 | S | - | 2 | 3 | 4 | 4 | 5 | 5 | 18 | | * | | 1 | | |
| 3H5 | 9.90 | 34.85 | S | - | 4 | 4 | 4 | 6 | 6 | 7 | 23 | | | * | 1 | | - |
| 3H5 | 12.90 | 31.85 | S | - | 3 | 4 | 6 | 6 | 7 | 7 | 26 | | | * | - | i | i |
| 3H5 | 16.00 | 28.75 | S | - | 6 | 8 | 8 | 9 | 9 | 9 | 35 | | | | 1 | | 1 |
| 3H5 | 19.00 | 25.75 | S | - | 6 | 7 | 8 | 9 | 9 | 10 | 36 | | | 1 | . * | | 1 |
| 3H5 | 22.00 | 22.75 | S | - | 6 | 8 | 8 | 8 | 9 | 9 | 34 | | | | * | I | 1 |
| 3H5 | 25.00 | 19.75 | S | - | 8 | 8 | 10 | 11 | 13 | 14 | 48 | | | | | - | * |
| 3H5 | 26.80 | 17.95 | С | - | 50/1 | | | | | | 50*/1 | | | ! | ! | ! | > |
| 3H5 | 28.50 | 16.25 | S | - | 6 | 7 | 11 | 11 | 13 | 16 | 51 | | <u> </u> | | | ! | * |
| | | | | | | | | | | | | | | | | | |
| Driller | | <u> </u> | David | I I Cowling | 9 | I. | Remark | | | | | | | | | | |
| Hammer No. | | | EQU4 | 136 | | | Equipm 22476- | | ked and c | alibration | carried out i | n acco | ordan | ce w | /ith B | S EN | ISO |
| Energy Ratio | , Er (%) | | 74.00 | 1 | | | | | | | | | | | | | |
| | | | | /2012 | | | 1 | | | | | | | | | | |

^{-/-} Blows/penetration (mm) after seating



PC124991

^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

Borehole Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer BH6 ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 43.13 m OD

| | ON GROUP | ? | | | | | | | | | | 1 | Ground | Level 4 | | m OD |
|--------------------|--------------------|---------------------|-----------------|----------------|---------------|----------------|----------------------|------------------------------------|---------|-----------------|----------------|---------|------------|--------------------------|--------|--------------------|
| Sampling | | _ | Prope | rties | | Strata | a | | | | | | | | Scale | 1:50 |
| Depth | Sample Type | Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | m OD |
| 0.30 | | | | | | | rete sla E GROUNI | | | | | | / | G.L. 0.17 | р | 43.13 42.96 |
| 0.30 0.50 | E D | | | | | | fill. GROUNI | | | | | | | 0.50 | | 42.63 |
| 1.00 | _ E | | | | | sandy subro | z slight ounded i | mottled in tly grave fine to | elly cl | ay. Gra | avel is | angula | r to | | | |
| 1.20- 1.65 | D - | NIL (DRY) | | | s 9 | L | GROUNI | D] mottled | bluish | grey (| CLAY. | | | 1.20 | | 41.93 |
| 2.00 | - - D | | | | | | | | | | | | | <u>-</u> | | |
| | E E | | | | | | | | | | | | | | | |
| 2.70- 3.15 | U40 | NIL (DRY) | 82 | 32 | | At 2 | .70m, h | igh stre | ngth | | | | | - - - | | |
| 3.20 | _ _ D | | | | | Stiff | fissu | red brow | n mottl | ed blu | ish gre | y and o | range | 3.20 | | 39.93 |
| | - | | | | | extre orie | emely to | y lamina o very c dull and | losely | spaced | , rando | mly | ngish | - - - - | | |
| 4.20- 4.65 | _ _ _ р | 2.50 | | | s18 | DIOWI | i scain. | ing. | | | | | | <u>-</u> - - | | |
| | - | (DRY) | | | | | | | | | | | | - - - | | |
| | Ē | | | | | | | | | | | | | <u> </u> | | |
| | <u>-</u> | | | | | | | | | | | | | _ _ _ | | |
| 5.70- 6.15 | - U45 - - | 2.50 (DRY) | | | | Δ+ 6 | . 20m - w | ith a li | ttle ga | nd and | fine o | ravel s | ized | <u> </u> | | |
| 6.20 | - D | | | | | | m cryst | | ccie sa | na ana | rine 9 | lavel b | 1260 | _ - - | | |
| | - | | | | | | | | | | | | | - - - | | |
| 7.20- 7.65 | - - D | 2.50 (DRY) | | | S24 | occas | | , becoming to | | | | | of | | | |
| | - | | | | | | | | | | | | | - - - - | | |
| | Ė | | | | | | | | | | | | | <u>-</u> | | |
| 8.70- 9.15 | _ - - ʊ50 | 2.50 | | | | | | | | | | | | - - | | |
| 9.20 | - - - - р | (DRY) | | | | Belov | v 9.20m | , becomi: | ng dark | brown | ish gre | y in co | lour. | <u> </u> | | |
| 9.20 | - В - | | | | | | | | | | | | | | | |
| | E | | | | | | | | | | | | | - | | |
| Boring | | | | | Progre | ess | | | | Grour | ndw at e | r | | | - | |
| Depth Hole Dia | | Technique | Э | Crew | _ | Depth | Depth to Water | Date | Time | Depth Struck | Depth Cased | | in Mins | Depth Sealed | | arks on ndwater |
| 1.20 19.65 0.15 | Inspect Cable F | ion Pit Percussi | | CR/PJ CR/PJ | G.L. 19.65 | | DRY | 20/08/1 20/08/1 | | | | | | | | countered boring. |
| Remarks Remarks | Inspect | ion pit | : hand | excavat | ted to | 1.20m d | lepth. | | | | | | | 100 | ged by | СО |
| AGS | ** Dril | lare de | ecrint | ion | | | | | | | | | | Logi | you by | |

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Logged by

Figure 1 of 2 20/09/2012



Project BACTON LOW RISE, GOSPEL OAK, NORTH Engineer ROLTON GROUP BOrehole Project No PC124991

Client ROLTON GROUP Ground Level 43.13 m OD

| Sampling | | | Prope | rties | | Strata | 1 | | | | | | | | Scale 1: | :50 |
|----------------|----------------|--------------------------------|-----------------|--------|------------------|---------|-------------------|--------------------|---------|-------------------|--------------------|-----------------|------------|-----------------|----------|------------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| 10.20-10.65 | | 2.50 | | | s23 | | | with rar | e fine | gravel | sized | shell | | | | |
| .0.20-10.65 | D E | (DRY) | | | 523 | Iragi | ments. | | | | | | | <u> </u> | | |
| | - | | | | | | | | | | | | | - | | |
| | | | | | | | | | | | | | | <u> </u> | | |
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| | | | | | | | | | | | | | | ‡ | | |
| 11.70-12.15 | U55 | 2.50 (DRY) | | | | | | | | | | | | <u> </u> | | |
| | _ | | | | | Belov | v 12.20n | ı, fissu | res bec | oming o | closely | spaced | l with | - | | |
| .2.20 | D | | | | | a sil | lt dusti | .ng. | | | | | | I F | | |
| | F | | | | | | | | | | | | | F | | |
| | | | | | | | | | | | | | | <u> </u> | | |
| 3.20-13.65 | D | 2.50 | | | s32 | | | | | | | | | <u> </u> | | |
| | E | (DRY) | | | | | | | | | | | | <u> </u> | | |
| | - | | | | | | | | | | | | | <u> </u> | | |
| | F | | | | | | | | | | | | | <u> </u> | | |
| | | | | | | | | | | | | | | Ī Ī | | |
| 4.70-15.15 | _ | 2.50 | | | | | | | | | | | | - | | |
| | | (DRY) | | | | | | | | | | | | <u> </u> | | |
| .5.20 | D | | | | | becon | aing occ | , becom asional | ly poli | y stiff shed w | f. Fiss ith bla | ures ck mott | ling, | <u> </u> | | |
| | - | | | | | SIIT | dusting | absent | • | | | | | - | | |
| | - | | | | | | | | | | | | | | | |
| | F _ | | | | | | | | | | | | | F | | |
| 16.20-16.65 | D D | 2.50 (DRY) | | | S31 | | | | | | | | | F | | |
| | F | | | | | | | | | | | | | F | | |
| | E | | | | | | | | | | | | | <u> </u> | | |
| | | | | | | | | | | | | | | ‡ | | |
| | Ė | | | | | | | | | | | | | <u> </u> | | |
| 7.70-18.15 | บ75 | 2.50 (DRY) | | | | | | | | | | | | <u> </u> | | |
| 18.20 | — - р | | | | | | | | | | | | | | | |
| .0.20 | _ | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | <u> </u> | | |
| | _ | | | | | | | | | | | | | <u> </u> | | |
| 19.20-19.65 | D | 2.50 (DRY) | | | s37 | | | | | | | | | Ę | | |
| | F | / | | | | | | | | | | | | 19.65 | | 23.4 |
| | - | | | | | | | E | nd of B | orehole | 9 | | | <u> </u> | | |
| Boring | | | | | Progre | ess | | | | Grour | ndwate | r | | | | |
| Depth Hole Dia | | Techniqu | e | Crew | Depth of Hole | | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| 2.0 | | | | | 1.3.3 | - 2-20 | | | | - ,, 2011 | | | | | 2.0011 | |
| | | | | | | | | | | | | | | | | |

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure



ProjectBACTON LOW RISE, GOSPEL OAK, NORTH LONDONProject NoPC124991

Client ROLTON GROUP

| Hole | Depth | Level | Туре | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' Value | | Uncor | recte | d SPT | - |
|-------------|-------|-------|-------|---------|------------------|--------------------|-------------------|--------------------|---------------------|---------------------|------------------|----------|--------|----------|--------|-----|
| | m bgl | m OD | , | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | value | 10 | 20 | 30 10 | 40 | 50 |
| H6 | 1.20 | 41.93 | S | - | 1 | 1 | 2 | 2 | 2 | 3 | 9 | * | ! | 1 | | |
| H6 | 4.20 | 38.93 | S | - | 2 | 3 | 4 | 4 | 5 | 5 | 18 | 1 | * | | | |
| H6 | 7.20 | 35.93 | S | - | 2 | 4 | 5 | 6 | 6 | 7 | 24 | 1 | * | | | |
| BH6 | 10.20 | 32.93 | S | - | 3 | 4 | 5 | 6 | 5 | 7 | 23 | 1 | * | i | i | 1 |
| BH6 | 13.20 | 29.93 | S | - | 3 | 5 | 6 | 8 | 8 | 10 | 32 | 1 | | * | I I | 1 |
| BH6 | 16.20 | 26.93 | S | - | 2 | 4 | 6 | 7 | 8 | 10 | 31 | 1 | I I | * | I I | 1 |
| 3H6 | 19.20 | 23.93 | S | - | 4 | 6 | 8 | 8 | 9 | 12 | 37 | 1 | | 1 | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Driller | ı | 1 | Chris | Rainsbu | ıry | l | Remar | | | | | | | | | |
| lammer No | | | SDS0 | | | | Equipm 22476-3 | | ked and c | alibration | carried out ir | n accord | dance | with B | S EN | ISO |
| nergy Rati | | | 81.00 | | | | | | | | | | | | | |
| Calibration | | | | /2012 | | | | | | | | | | | | |

^{-/-} Blows/penetration (mm) after seating



^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH7 ROLTON GROUP Project No PC124991

Client Ground Level 42.10 m OD ROLTON GROUP

| Sampling | | | | Proper | ties | | Strata | | | | | | | | | Scale 1 | :50 |
|----------------------------------|------|------------------|--------------------------------|-----------------|----------|---------------------------------|-------------------------------------|----------------------------|---|----------------------------|------------------------------|------------------------------|----------------------------|--------------|-----------------|--|------------------|
| Depth | | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descripti | on | | | | | | | Depth | Legend | Leve m C |
| | E | - | | | | | | te wit | h reinfo] | rcing. | ** | | | | G.L. 0.20 | ў. ў | 42 |
| 0.30 0.30 0.50- 1. 0.50 | 00 - | D E B W | | | | | gravel subang clinke | ly san ular t | d red, o d, very o subrou crete an] | clayey nded f | in pla ine to | ces. G | ravel | İs | 0.80 | ∇ | 41 |
| 1.00 1.10 1.30- 1. | | E D D | 1.30 (1.00) | | | s7 | sandy conten pocket fine t | gravel t and s of c | ottled b with a rare fin lay. Gra se brick | high b e to m vel is | rick ar edium g angula | nd conc gravel ar to s | rete co sized ubangu | obble Lar | 1.10 | | 41 |
| 2.00 2.00 | | – D E | | | | | Firm f Fissur random | issure es are ly ori | d brown extreme entated, sh grey. | ly to dull | very cl | osely | spaced | , ally | | | |
| 2.80- 3. | 25 | U47 | 1.50 (DRY) | 98 | 32 | | At 2.8 | Om, hi | gh stren | gth | | | | | ‡ | | |
| 3.25 | | D | (DICI) | | | | Betwee micace | | -4.75m, | thinl | y lamin | nated a | nd | | | | |
| 4.30- 4. | 75 | - D | 1.50 (DRY) | | | s18 | Below | 4.30m, | fissure | s stai: | ned ora | ngish | brown. | | | | |
| 5.80- 6. 6.25 | 25 - | U85 - D | 1.50 (DRY) | | | | occasi | onal f | coming s ine grav with si | el siz | ed shel | l frag | ments. | sk. | | | |
| 7.30- 7. | 75 | _ | 1.50 (DRY) | | | s22 | | | | | | | | | | | |
| 7.80- 8. | 30 | B - | | | | | | | | | | | | | | | |
| 8.80- 9. 9.25 | 25 - | UT90 - D | 1.50 (DRY) | 110 | 29 | | brown. polish At 8.8 | Fissu ed occ Om, hi | coming v res very asionall gh stren laminae | close y stai gth | ly spac ned dan | ed, sl | ightly | | | | |
| | Ė | _ | | | | | | | | | | | | | <u></u> | | |
| oring | le l | | - | | | Progre | SS Depth D | enth to | | | | dw at e | 1 | in | Denth | Pomo | rks on |
| epth D | ia | | Technique | | Crew | of Hole | | Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| 1.20 0.00 0. | | | ion Pit ercussi | | DC DC | G.L. 10.80 10.80 20.00 | 1.50 | DRY DRY | 14/08/12 14/08/12 15/08/12 15/08/12 | 18:00 08:00 | | NIL | | | 1.50 | | |

Remarks

Inspection pit hand excavated to 1.20m depth, 0.310012 2.20m2

** Drillers description.

E sample = 1 x vial, 1 x plastic jar and 1 amber jar

A 50mm standpipe was installed to 5.00m with a geowrapped slotted section from 2.00m to 5.00m with flush lockable protective cover. Backfill details from base of hole: arisings up to 7.00m, bentonite seal up to 5.00m, gravel filter up to 2.00m, bentonite seal up to 0.30m, concrete up to ground level.

All dimensions Logged in accordance with BS5930:1999 + A2:2010 are in metres.

explained on the accompanying

Symbols and

key sheet.

abbreviations are

Logged by

Figure 1 of 2



Project BACTON LOW RISE, GOSPEL OAK, NORTH Engineer ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 42.10 m OD

| Depth | m OD € 1:50 |
|---|--------------------------|
| 11.80-12.25 U100 1.50 136 28 At 11.80m, high strength 12.25 D D 1.50 (DRY) 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D D 1.50 (DRY) 15.25 D At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. fiscure approximately 45 degrees, very closely spaced, and cleant takes, smooth, occasionally stepped and clean. At 18.00m, high strength | end Level |
| 11.80-12.25 U100 | - III OL |
| 11.80-12.25 U100 | |
| 12.25 D D S26 Below 12.25m, Fissure spacing increasing, silt and staining absent 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D 1.50 (DRY) 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 U1110 1.50 (DRY) 18.00-18.45 U1110 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) | } |
| 12.25 D Below 12.25m, Fissure spacing increasing, silt and staining absent 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D D 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 U1110 1.50 (DRY) 18.00-18.45 U1110 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) | - 🕸 |
| 12.25 D D Sale Selow 12.25m, Fissure spacing increasing, silt and staining absent 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D D 1.50 (DRY) 16.40-16.85 D (DRY) 17.70 D (DRY) 18.00-18.45 UTI10 1.50 (DRY) 18.10-18.45 UTI10 1.50 (DRY) 18.10-18.45 UTI10 1.50 (DRY) 18.45 D D 1.50 (DRY) 18.45 D D 1.50 (DRY) 18.45 D D 1.50 (DRY) 18.46 D D 1.50 (DRY) 18.47 Tom, claystone boulder, recovered as angular to subangular medium to coarse gravel sized at 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45 D D 1.50 (DRY) 19.50-19.95 D 1.50 S28 | |
| 12.25 D D Sale Selow 12.25m, Fissure spacing increasing, silt and staining absent 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D D 1.50 (DRY) 16.40-16.85 D (DRY) 17.70 D (DRY) 18.00-18.45 UTI10 1.50 (DRY) 18.10-18.45 UTI10 1.50 (DRY) 18.10-18.45 UTI10 1.50 (DRY) 18.45 D D 1.50 (DRY) 18.45 D D 1.50 (DRY) 18.45 D D 1.50 (DRY) 18.46 D D 1.50 (DRY) 18.47 Tom, claystone boulder, recovered as angular to subangular medium to coarse gravel sized at 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45 D D 1.50 (DRY) 19.50-19.95 D 1.50 S28 | |
| 12.25 D D S26 Below 12.25m, Fissure spacing increasing, silt and staining absent 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D D S26 At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular tracks. At 17.70m, claystone boulder, recovered as angular tracks. At 18.45m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissure extremely closely spaced, randomly orientated, smooth, occasionally stepped and and one, and sub-vertical original polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and sightly polished. At 18.00m, high strength | \rightarrow |
| 12.25 D Below 12.25m, Fissure spacing increasing, silt and staining absent 13.30-13.75 D 1.50 (DRY) 14.80-15.25 U120 1.50 (DRY) 15.25 D D 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 U1110 1.50 (DRY) 18.00-18.45 U1110 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 18.150 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) | |
| Below 12.25m, Fissure spacing increasing, silt and staining absent | |
| 13.30-13.75 D 1.50 (DRY) | |
| 14.80-15.25 U120 (DRY) 15.25 D 1.50 (DRY) 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 UTI10 1.50 (DRY) 18.15 D 1.50 (DRY) 18.15 D 1.50 (DRY) 18.15 D 1.50 (DRY) 19.50-19.95 D 1.50 S28 | |
| 14.80-15.25 U120 (DRY) 15.25 D 1.50 (DRY) 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 UTI10 1.50 (DRY) 18.15 D 1.50 (DRY) 18.15 D 1.50 (DRY) 18.15 D 1.50 (DRY) 19.50-19.95 D 1.50 S28 | 8 |
| 14.80-15.25 U120 (DRY) 15.25 D (DRY) 16.40-16.85 D (DRY) 17.70 D (DRY) 17.70 D (DRY) 18.00-18.45 UTI10 (DRY) 18.45 D (DRY) 18.45 D (DRY) 19.50-19.95 D 1.50 S28 | |
| 14.80-15.25 U120 (DRY) 15.25 D 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 UT110 1.50 (DRY) 18.15 D (DRY) 19.50-19.95 D 1.50 (DRY) 19.50-19.95 D 1.50 (S28 | 3 |
| 14.80-15.25 U120 (DRY) 15.25 D 16.40-16.85 D 1.50 (DRY) 17.70 D (DRY) 18.00-18.45 UT110 1.50 (DRY) 18.15 D (DRY) 19.50-19.95 D 1.50 (DRY) 19.50-19.95 D 1.50 (S28 | |
| At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
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| At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular to subangular nedium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | - |
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| At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular to subangular nedium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| 15.25 D 16.40-16.85 D 1.50 (DRY) 17.70 D 18.00-18.45 UT110 (DRY) 18.45 D 19.50-19.95 D 1.50 S26 At 16.40m, with occasional light grey rootlet tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
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| 17.70 D Land to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45 D Land Land Land Land Land Land Land Land | 3 |
| 17.70 D 18.00-18.45 D 1.50 (DRY) 18.45 D 1.50 (DRY) 19.50-19.95 D 1.50 (DRY) S26 tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| 17.70 D 18.00-18.45 D 19.50-19.95 D 1.50 (DRY) 28 tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| 17.70 D 18.00-18.45 D 19.50-19.95 D 1.50 (DRY) 28 tracks. At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | . 3 |
| At 17.70m, claystone boulder, recovered as angular to subangular medium to coarse gravel sized fragments. 18.00-18.45 UT110 1.50 (DRY) 18.45 D At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | - 3 |
| 18.00-18.45 UT110 1.50 (DRY) 18.45 D 114 28 to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| 18.00-18.45 UT110 1.50 (DRY) 18.45 D 114 28 to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| 18.00-18.45 UT110 1.50 (DRY) 18.45 D 114 28 to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | \rightarrow |
| 18.00-18.45 UT110 1.50 (DRY) 18.45 D 114 28 to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | \rightarrow |
| to subangular medium to coarse gravel sized fragments. 18.00-18.45 UT110 1.50 (DRY) 18.45 D 114 28 to subangular medium to coarse gravel sized fragments. At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| 18.00-18.45 UT110 1.50 (DRY) 18.45 D At 18.00m, fissure approximately 45 degrees, very closely to closely spaced and sub-vertical, slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| slightly polished. At 18.45m, fissures extremely closely spaced, randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| randomly orientated, smooth, occasionally stepped and clean. At 18.00m, high strength | |
| At 18.00m, high strength | |
| | |
| | |
| | - 🕌 |
| - (DRY) | |
| <u> </u> | |
| 20.00 | 22. |
| Boring Progress Groundwater | |
| Posth Hole Technique Craw Depth Remarks on roundwater |
| | |
| Remarks Remarks | sc |

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure



ProjectBACTON LOW RISE, GOSPEL OAK, NORTH LONDONProject NoPC124991

Client ROLTON GROUP

| Hole | Depth | Level | Туре | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' Value | | Unco | rrecte 'N' | d SPT | 7 |
|--|-------|-------|---------------------------------------|------|---------------------|--------------------|-----------------------------|--------------------|---------------------|---------------------|------------------|----------|--------|---------------|-------|-----|
| | m bgl | m OD | , , , , , , , , , , , , , , , , , , , | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | value | 10 | 20 | 30 | 40 | 50 |
| BH7 | 1.30 | 40.80 | S | - | 1 | 1 | 1 | 2 | 2 | 2 | 7 | * | 1 | | 1 | 1 |
| 3H7 | 4.30 | 37.80 | S | - | 1 | 2 | 3 | 4 | 5 | 6 | 18 | ! | * | ! | - | - |
| 3H7 | 7.30 | 34.80 | S | - | 2 | 4 | 5 | 5 | 6 | 6 | 22 | | * | | | |
| 3H7 | 10.30 | 31.80 | S | - | 4 | 6 | 6 | 7 | 7 | 8 | 28 | 1 | | * | 1 | i |
| 3H7 | 13.30 | 28.80 | S | - | 5 | 6 | 8 | 7 | 7 | 9 | 31 | 1 | 1 | * | i | i |
| 3H7 | 16.40 | 25.70 | S | - | 3 | 6 | 5 | 7 | 7 | 7 | 26 | 1 | 1 | * | | |
| 3H7 | 19.50 | 22.60 | S | - | 4 | 5 | 6 | 7 | 7 | 8 | 28 | | I I | * | I | 1 |
| Driller Hammer No. Energy Ratio Calibration D | | | David EQU4 74.00 23/03 | | J | | Remarl Equipm 22476-3 | ent check | ked and c | alibration | carried out in | n accord | dance | with E | SS EN | ISO |

^{-/-} Blows/penetration (mm) after seating



^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH8 ROLTON GROUP Project No PC124991

Client Ground Level 42.20 m OD ROLTON GROUP

| Sampling | | P | Prope | rties | | Strata Ground | | Scale 1: | |
|--|---------------------------------------|--------------------------------|-----------------|----------------|---------------------------------|---|--------------------------------------|-----------|---------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | Depth | Legend | Level m OD |
| | | (| | | | Concrete with reinforcing. ** [MADE GROUND] | G.L. 0.20 | þ þ. | 42.20 |
| 0.30- 0.5 0.30 0.30 0.50- 0.8 0.50 1.00 | _ D - E | | | | | Firm brown mottled red, orange and black very gravelly sand, occasionally very clayey. Gravel is subangular to subrounded fine to medium brick, clinker and concrete. [MADE GROUND] | 0.50 | | 41.7 |
| 1.20- 1.7 1.20- 1.6 |) В | 1.20 (DRY) | | | s10 | Soft dark brown mottled red, orange, yellow and black sandy gravelly clay, with occasional timber fragments (upto 15cm in size) and a medium cobble content of subangular brick and concrete. Gravel is angular to subangular fine to coarse brick, concrete and clinker. [MADE GROUND] | 1.20 | | 40.5 |
| 2.00 2.20- 2.6 2.65 | - E | 1.50 (DRY) | 55 | 33 | | Soft dark brownish grey mottled black slightly sandy slightly gravelly slightly organic clay, fissured in parts. Fissures are randomly orientated extremely closely spaced. Gravel is angular to subrounded fine to medium brick, quartzite and flint. | - | | |
| 3.80- 4.2 | - - - - - - - | 1.50 (DRY) | | | s18 | [MADE GROUND] Stiff fissured brown mottled bluish grey slightly micaceous CLAY, thinly laminated in parts and with occasional rootlets. Fissures are randomly orientated, extremely to very closely spaced, smooth, dull with a slight silt dusting. At 2.20m, medium strength | | | |
| | | (====, | | | | | - | | |
| 5.30- 5.7 5.75 | 5 U65 - - D - - - - | 1.50 (DRY) | 87 | 30 | | At 5.30m, high strength Below 5.75m, becoming very stiff and dark greyish brown, with occasional fine to medium gravel sized shell fragments and orange staining on fissure surfaces. | | | |
| 6.80- 7.2 | 5 D | 1.50 (DRY) | | | s21 | | - - - - - - - - | | |
| 7.40 7.60- 8.0 | <u>-</u> | 1.50 (DRY) | | | | Below 8.05m, orange staining absent. | † - - - - - - | | |
| 8.05 | - D | | | | | | † - - - - - - - | | |
| 9.10- 9.5 | 5 - D | 1.50 (DRY) | | | s22 | Between 9.10-10.95m, with rare silt pockets (upto 10mm in size). | - | | |
| 10.00-10.4 | - - B | | | | | | | | |
| Soring Hole | | | | 1 | Progre | Denth Denth to Denth Denth L in | Depth | Remar | (S On |
| Depth Dia | | Technique | - | Crew | of Hole | Cased Water Date Time Depth Struck Cased Rose to Mins | Sealed | Ground | |
| 1.20 20.00 0.1 | | tion Pit Percussi | | DC/LC DC/LC | G.L. 10.00 10.00 20.00 | NIL DRY 15/08/12 08:00 1.50 DRY 15/08/12 18:00 1.50 DRY 16/08/12 08:00 1.50 DRY 16/08/12 18:00 | | None enco | |

Remarks
Symbols and abbreviations are explained on the ex

explained on the accompanying key sheet. All dimensions are in metres.

abbreviations are

Logged in accordance with BS5930:1999 + A2:2010

Logged by

Figure

1 of 2 20/09/2012

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geolectimies

Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH8 ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 42.20 m OD

| Sampling | | | Prope | | | Strata | | | | | | | | | Scale 1 | .00 |
|------------------|----------------|--------------------------------|-----------------|----------|------------------|----------------|-------------------|----------|---------|-----------------|----------------|---------|------------|-----------------|---------|------------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | n w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OE |
| | - | | | | | | | | | | | | | - | | 8 |
| | Ė | | | | | | | | | | | | | ‡ | | |
| 0.50-10.95 | υ90 | 1.50 (DRY) | | | | | | | | | | | | Ė | | × |
| | E | (DRI) | | | | _ | | | | | _ | | | E | | |
| 0.98 | - D | | | | | Belov | v 10.95m | , fissu | res mot | tled b | lack. | | | <u> </u> | | × |
| | - | | | | | | | | | | | | | ļ. | | |
| | Ė | | | | | | | | | | | | | ‡ | | × |
| | | | | | | | | | | | | | | Ē | | À |
| 10 15 | _ | 1 50 | | | -0.4 | | | | | | | | | ‡ | | Š |
| 2.00-12.45 | _ D | 1.50 (DRY) | | | S24 | | | | | | | | | F | | |
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| | E | | | | | | | | | | | | | F | | Ž |
| | - | | | | | | | | | | | | | ‡ | | X |
| 3.50-13.95 | _U100 | 1.50 | | | | | | | | | | | | <u> </u> | | Ž |
| | | (DRY) | | | | | | | | | | | | E | | Š |
| 3.95 | _ D | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | ţ | | X |
| | - | | | | | | | | | | | | | ‡ | | 3 |
| | <u> </u> | | | | | | | | | | | | | Ē | | Ž |
| | _ | | | | | | | | | | | | | Ę | | Ä |
| 5.00-15.45 | _ D | 1.50 (DRY) | | | S27 | | | | | | | | | - | | X |
| | _ | | | | | | | | | | | | | Ė | | × |
| | | | | | | | | | | | | | | E | | Ž |
| .5.80 | - D | | | | | At 15 | 5.80m, w | ith a su | ubround | ed clay | ystone | cobble | | ţ | | X |
| | | | | | | | | | | | | | | <u> </u> | | × |
| | | | | | | | | | | | | | | E | | |
| 6.50-16.80 | _UT130 | 1.50 | | | | | | | | | | | | <u> </u> | | × |
| | - | (DRY) | | | | | | | | | | | | ‡ | | Š |
| | | | | | | | | | | | | | | <u> </u> | | X |
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| | | | | | | | | | | | | | | Ē | | X |
| 8.00-18.45 | | 1.50 | | | s30 | n - 1 | - 10 00 | e: | | | | | 234 | <u> </u> | | |
| 6.00-16.45 | _ D | (DRY) | | | 530 | abser | v 18.00m nt. | , rissui | re spac | ing in | creasin | g and s | 110 | F | | |
| | | | | | | | | | | | | | | Ē | | × |
| | <u>L</u> | | | | | | | | | | | | | † | | X |
| 8.80 | D | | | | | | | | | | | | | Ē | | |
| | F | | | | | | | | | | | | | | | X |
| | <u> </u> | | | | | | | | | | | | | ‡ | | X |
| 9.50-19.80 | _U130 | 1.50 (DRY) | | | | | | | | | | | | E | | 3 |
| 9.80 | - D | (DICI) | | | | At 19 | 9.80m, f | issures | predom | inantl | y subho | rizonta | 1. | <u></u> | | Š |
| 0.00 | - D | | | | | | | | nd of 7 | orehole | | | | 20.00 | | 22.: |
| Boring | | - | | | Progre | | | Е | IG OF E | | ndwate | r | | 1 | | |
| epth Hole Dia | | Technique | Э | Crew | Depth of Hole | Depth Cased | Depth to Water | Date | Time | Depth Struck | Depth Cased | Rose to | in Mins | Depth Sealed | | rks on dwater |
| | | | | | | | | | | | | | | | | |
| emarks 🛺 | | | | | | | | | | | | | | | | |

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure



 Project
 BACTON LOW RISE, GOSPEL OAK, NORTH LONDON
 Project No

Client ROLTON GROUP

| Hole Depth | Level | Type | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' | 1 | Uncor | | d SP1 | • |
|------------|-------|------|------|------------------|--------------------|------------------|--------------------|---------------------|---------------------|---------|--------------|-------|-----------|--|------|
| m bgl | | Туре | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | Value | 10 | 20 | 'N' 30 | 40 | 50 |
| BH8 1.20 | 41.00 | s | - | 1 | 1 | 2 | 2 | 4 | 2 | 10 | | 1 | | | |
| BH8 3.80 | 38.40 | S | - | 2 | 2 | 3 | 4 | 5 | 6 | 18 | | * | ! | ! | - |
| BH8 6.80 | 35.40 | S | - | 2 | 3 | 5 | 5 | 5 | 6 | 21 | | * | | - | |
| BH8 9.10 | 33.10 | S | - | 3 | 4 | 4 | 5 | 5 | 8 | 22 | 1 | * | | | 1 |
| BH8 12.00 | 30.20 | S | - | 4 | 4 | 5 | 6 | 6 | 7 | 24 | 1 | * | i | - | İ |
| BH8 15.00 | 27.20 | S | - | 3 | 6 | 6 | 6 | 7 | 8 | 27 | 1 | | * | <u> </u> | + |
| BH8 18.00 | 24.20 | s | - | 5 | 6 | 7 | 7 | 8 | 8 | 30 | | - | * | | Ť |
| | | | | | | | | | | | | | | | |

Remarks

In accordance with BS EN ISO22476-3:2005



PC124991

^{-/-} Blows/penetration (mm) after seating

^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH9 ROLTON GROUP Project No PC124991

Client Ground Level 42.09 m OD ROLTON GROUP

| Sampling | ON GROU | P | Prope | rties | | Strata | <u> </u> | | | | | | Ground | Level 4 | 2.09 r Scale 1: | n OD |
|--------------------------|------------------|------------------|----------|-------|-------------------------|---------|-------------------|----------------------------------|--------|-----------------|----------|-----------|------------|-----------------|--------------------|-----------------|
| | Sample | Depth Cased & | Strength | | SPT N | | | | | | | | | T | | Level |
| Depth | Туре | (to Water) | | % | 31 1 1 | Descrip | otion | | | | | | | Depth | Legend | m OD |
| 0.30 | - - - D | | | | | | Forced of GROUNI | concrete D] | slab. | ** | | | | G.L. 0.20 | р | 42.09 41.89 |
| 0.30 | E | | | | | Brown | n slight | tly claye subangula | y grav | elly s | and. Gr | cavel is | 3 | Ė | | 1 |
| 0.70 | D | | | | | conci | | uartzite | | | arse br | ick, | | E | | |
| 1.00 | _ E | | | | | [MADI | 2 GROOM | 2] | | | | | | <u> </u> | | |
| 1.20- 1.65 1.20- 1.65 | | NIL | | | s9 | Firm | orangi | sh brown | glight | lv gan | dv CT.AV | 7. | | 1.20 | | 40.89 |
| | Ē | (DRY) | | | | | 0_0 | J. 22 J | J | | u, 02 | • | | F | | |
| | = | | | | | | | | | | | | | ‡ | | |
| 2.00 | _ E | | | | | | | | | | | | | F | | |
| | Ė | | | | | | | | | | | | | Ė | | |
| | F | | | | | | | | | | | | | F | | |
| 2.70- 3.15 | U40 | NIL (DRY) | 65 | 35 | | At 2 | .70m, me | edium str | ength | | | | | Ė | | |
| | - | | | | | | | , thinly | | | | | | <u></u> | | |
| 3.20 | D | | | | | close | ely to v | issures a very clos | ely sp | aced d | ull wit | h a si | y lt | Ē | | |
| | - | | | | | dusti | ing and | occasion | al ora | nge st | aining. | | | F | | |
| | Ē | | | | | | | | | | | | | Ē | | |
| | - | | | | | Stiff | fissu | red dark | greyis | h brow | n mottl | ed ora | ngish | 4.00 | | 38.09 |
| 4.20- 4.65 | D | 2.50 (DRY) | | | S14 | parts | s. Fisst | tly micac ures are | extrem | ely cl | osely t | o very | | Ē | | |
| | F | | | | | occas | sional s | ced and r silt dust | | | | | | F | | |
| | Ī | | | | | stair | ning. | | | | | | | Ē | | |
| | F | | | | | | | | | | | | | F | | |
| | <u> </u> | | | | | | | | | | | | | E | | |
| F 70 6 15 | | 2 50 | | | | | | | | | | | | Ė | | |
| 5.70- 6.15 | υ55 | 2.50 (DRY) | | | | | | | | | | | | Ę. | | |
| 6.20 | - D | | | | | Below | v 6.20m | , orange | staini | ng abs | ent. | | | F | | |
| 6.20 | ٦ | | | | | | | | | | | | | E | | |
| | Ē | | | | | | | | | | | | | Ė | | |
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| 7.20- 7.65 | - D | 2.50 | | | S22 | | | , becomings on fis | | | | | | E | | |
| 7.20- 7.03 | <u>ַ</u> | (DRY) | | | 522 | | mess) | gs OH IIS | bure b | arrace | s (upcc | , 11mm 11 | • | ‡ | | |
| | - | | | | | | | | | | | | | Ē | | |
| | ļ | | | | | | | | | | | | | ‡ | | |
| | F | | | | | | | | | | | | | F | | |
| | F | | | | | | | | | | | | | ‡ | | |
| 8.70- 9.15 | υ55 | 2.50 | 80 | 29 | | At 8 | .70m, h | igh stren | gth | | | | | E | | |
| | Ė | (DRY) | | | | | | | | | | | | <u>L</u> | | |
| 9.20 | - D | | | | | | 20m, wi | ith occas | ional | silt l | ayers (| upto 51 | nm in | ‡ | | |
| | Ė | | | | | | • | | | | | | | Ė | | |
| | - | | | | | | | | | | | | | E | | |
| | Ł | | | | | | | | | | | | | <u>L</u> | | |
| Boring | | | | | Progre | ess | | | - | Grour | ndw at e | er | | | | |
| Depth Hole | | Technique | e | Crew | Depth of Hole | Depth | Depth to Water | Date | Time | Depth Struck | Depth | | in Mins | Depth Sealed | Remai | ks on dwater |
| 1.20 | | tion Pit | : | CR/PJ | G.L. | | | 15/08/12 | | | Caseu | | IVIIIIO | Jealeu | None enc | ountered |
| 30.15 0.15 | Cable 1 | Percussi | on | CR/PJ | 18.20 18.20 30.15 | 2.50 | DRY | 15/08/12 16/08/12 16/08/12 | 08:00 | | | | | | during b | oring. |
| | | | | | | | | | | | | | | | | |
| Dama aulta | | tion nit | . 11 | | | 1 00 | 1 4-1- | | | | | | | | | |

Remarks

Inspection pit hand excavated to 1.20m depth.

** Drillers description.

Symbols and abbreviations are explained on the accompanying key sheet.

Symbols and abbreviations are explained on the accompanying key sheet.

Symbols and abbreviations are explained on the accompanying key sheet.

E sample = 1 x vial, 1 x plastic jar and 1 amber jar

A standpipe was installed to 5.00m with a geowrapped slotted section from 2.00m to 5.00m with flush lockable protective cover. Backfill details from base of hole: arisings up to 7.00m, bentonite seal up to 5.00m, fine gravel filter up to 2.00m, bentonite seal up to 0.50m, concrete up to ground level.

key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Logged by SC / CO

Figure 1 of 4

20/09/2012



Project BACTON LOW RISE, GOSPEL OAK, NORTH Engineer ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 42.09 m OD

| Depth 0.20-10.65 | Sample Type — - D | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Description | Depth | Legend Lev |
|---------------------|-------------------------------|--------------------------------|-----------------|--------|------------------|---|---------------------------|------------|
| 0.20-10.65 | | | | | | | | |
| | | (DRY) | | | s29 | Below 10.00m, becoming very stiff greyish brown with occasional fine gravel sized shell fragments silt layers absent. | | |
| | - - - | | | | | | - - - | |
| | <u>-</u> - | | | | | | <u>-</u> | |
| - | - - - | | | | | | <u>-</u> | |
| .70-12.15 | U60 - | 2.50 (DRY) | | | | | - - - | |
| .20 | _ D | | | | | Below 12.20m, fissures occasionally polished. | - - - | |
| - | - - - | | | | | | - - | |
| .20-13.65 | - - - D | 2.50 | | | S46 | | - | |
| | - - - | (DRY) | | | | At 13.60m, recovered with angular medium to coars gravel of claystone | e - | |
| - - - | - - - - | | | | | | ‡ - - | |
| - | - - - | | | | | | † - - | |
| .70-15.15 | υ75 | 2.50 (DRY) | 113 | 29 | | At 14.70m, high strength | - - - | |
| .20 | <u>-</u> - - р | (====, | | | | Below 15.20m, fissure spacing increasing, silt dusting absent. | <u> </u> | |
| - | - - - | | | | | | <u> </u> | |
| | - - - | | | | | | <u>-</u> | |
| .20-16.65 | _ D | 2.50 (DRY) | | | s34 | | <u>-</u> | |
| | - - - | | | | | | - - - | |
| | - - - | | | | | | <u>-</u> - | |
| .70-18.15 | - - - ʊ75 | 2.50 | | | | | <u></u> | |
| | - - - | (DRY) | | | | | † - - | |
| .20 | - D - - | | | | | | <u>-</u> | |
| | - - - | | | | | | <u>-</u> | |
| .20-19.65 | D D | 2.50 (DRY) | | | s33 | | - - - | |
| | _ - - | | | | | | - - - | |
| oring | <u> </u> | | | | Progre | s Groundwater | - | |
| Hole | | Technique | | Crew | Depth of Hole | | in Depth lins Sealed | Remarks on |

Figure

geolecimies esi<u>m</u>ies

2 of 4 20/09/2012

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer Borehole BH9 ROLTON GROUP Project No PC124991

Client Ground Level 42.09 m OD ROLTON GROUP

| Sampling | | | Prope | | | Strata | | | | | | | | | Scale 1: | 50 |
|-------------|----------------|--------------------------------|-----------------|--------|---------|----------|----------|---------------------|---------|---|-----------------|---------|-------|----------|----------|-------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descript | ion | | | | | | | Depth | Legend | Leve m O |
| | _ | | | | | | | | | | | | | _ | | |
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| 20.70-21.15 | ับ75 | 2.50 (DRY) | 111 | 26 | | At 20. | .70m, h | igh stre | ength | | | | | ‡ | | |
| | _ | (DKI) | | | | Polow. | 21 20 | , with o | | nal bl | al ata | ining o | | F | | |
| 21.20 | D | | | | | | re surf | | JCCasio | nai bi | ack sta | iming c | ,11 | ‡ | | |
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| 22.20-22.65 | - D | 2.50 | | | S41 | | | | | | | | | ļ. | | |
| | | (DRY) | | | | | | | | | | | | E | | |
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| | - | | | | | | | | | | | | | ‡ | | |
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| 23.70-24.15 | U80 | 2.50 (DRY) | | | | | | | | | | | | F | | |
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| 24.20 | D | | | | | | | | | | | | | Ē. | | |
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| 5.20-25.65 | - D | 2.50 | | | s36 | | | | | | | | | E | | |
| 3.20-23.63 | - U | (DRY) | | | 536 | | | | | | | | | ţ | | |
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| 26.50 | D | | | | | | | edium st | | | | | | <u> </u> | | |
| 26.70-27.15 | U80 | 2.50 | 107 | 26 | | gravel | l sized | overed a | nts | | | | | ‡ | | |
| | | (DRY) | | | | | | ith occa light l | | | | | l. | E | | |
| 27.20 | - D | | | | | | | very cl nd open | | | | | | ‡ | | |
| | - | | | | | distu | rbance | during a | samplin | a). | | | gizad | Ļ | | |
| | - | | | | | silt p | pockets | | | 116 60 1 | near an | graver | 51260 | F | | |
| | | | | | | At 26 | ./Um, n | igh stre | engtn | | | | | E | | |
| | - | | | | | | | | | | | | | | | |
| 28.20-28.65 | - D | 2.50 (DRY) | | | S45 | | | | | | | | | ‡ | | |
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| | <u> </u> | | | | | | | | | | | | | ‡ | | |
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| 29.70-30.15 | | 2.50 | | | | | | | | | | | | E | | |
| 50.15 | | (DRY) | | | | | | | | | | | | ‡ | | |
| To wise =: | | | | | | | | | | , , , , , , , , , , , , , , , , , , , | | _ | | | | |
| Boring Hole | | | | | Progre | | Depth to | | | Grour Depth | ndwate Depth | 1 | in | Depth | Remar | ks on |
| Depth Dia | | Technique | 9 | Crew | of Hole | | Water | Date | Time | Struck | | Rose to | Mins | Sealed | Ground | |
| | | | | | | | | | | | | | | | | |
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That 20.70m, measured undrained strength possibly affected by fissuring in test specimen and disturbance during sampling.

Figure

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3 of 420/09/2012

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Borehole Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Engineer BH9 ROLTON GROUP Project No PC124991

Client ROLTON GROUP Ground Level 42.09 m OD

| Sampling | | | Proper | | | Strata | a | | | | | | | , | Scale 1 | |
|------------------|----------------|--------------------------------|-----------------|--------|------------------|---------|-------------------|------|---------|-----------------|----------------|----------|------------|-----------------|---------|--------------------|
| Depth | Sample Type | Depth Cased & (to Water) | Strength kPa | w % | SPT N | Descrip | otion | | | | | | | Depth | Legend | Level m OD |
| | _ | | | | | | | | | | | | | 30.15 | | 11.9 |
| | _ | | | | | | | E | nd of E | orehole | 9 | | | <u> </u> | | |
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| orio = | | | | | | | | | | 1 / | du.c. | | | | | |
| oring Hole | | Toobala | | Crow | Depth of Hole | Depth | Depth to Water | Doto | Time | Depth Struck | Depth Cased | | in | Depth Sealed | Rema | arks on adwater |
| epth Hole Dia | | Technique | E | Crew | of Hole | Cased | Water | Date | Time | Struck | Cased | 1,096 10 | in Mins | Sealed | Grour | ndw at er |
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Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:1999 + A2:2010

Figure

4 of 4 20/09/2012



Project BACTON LOW RISE, GOSPEL OAK, NORTH LONDON Project No

Client ROLTON GROUP

| Hole | Depth | Level | Туре | SWP | Seating | g Drive | | Test | Drive | | SPT 'N' Value | ι | Jncor | rected | SPT | |
|------|-------|-------|---------------------------------------|------|---------------------|--------------------|------------------|--------------------|---------------------|---------------------|------------------|--------------------------|-----------------------|--------------------------|-----|-----------|
| | m bgl | m OD | , , , , , , , , , , , , , , , , , , , | (mm) | 0-75 (mm) | 75-150 (mm) | 0-75 (mm) | 75-150 (mm) | 150-225 (mm) | 225-300 (mm) | value | 10 | 20 | 'N' | 40 | 50 |
| 3H9 | 1.20 | 40.89 | S | - | 1 | 2 | 2 | 2 | 2 | 3 | 9 | * | | 1 | 1 | 1 |
| 3H9 | 4.20 | 37.89 | S | - | 2 | 2 | 4 | 3 | 4 | 3 | 14 | * | | | | |
| 3H9 | 7.20 | 34.89 | S | - | 1 | 2 | 5 | 5 | 5 | 7 | 22 | | * | 1 | | |
| 3H9 | 10.20 | 31.89 | S | - | 2 | 2 | 6 | 6 | 8 | 9 | 29 | 1 | i | * | | i |
| 3H9 | 13.20 | 28.89 | S | - | 3 | 4 | 5 | 6 | 25 | 10 | 46 | i i | i | i | * | İ |
| 3H9 | 16.20 | 25.89 | S | - | 2 | 5 | 7 | 9 | 8 | 10 | 34 | | 1 | * | | 1 |
| 3H9 | 19.20 | 22.89 | S | - | 3 | 5 | 8 | 7 | 8 | 10 | 33 | - | | * | | |
| 3H9 | 22.20 | 19.89 | S | - | 3 | 7 | 10 | 10 | 10 | 11 | 41 | | 1 | 1 | * | 1 |
| 3H9 | 25.20 | 16.89 | S | - | 4 | 7 | 9 | 9 | 9 | 9 | 36 | - | 1 | + | . | 1 |
| 3H9 | 28.20 | 13.89 | S | - | 4 | 6 | 8 | 10 | 14 | 13 | 45 | | İ | 1 | * | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | ; ; ; ; ; | | | |

Remarks

In accordance with BS EN ISO22476-3:2005



PC124991

^{-/-} Blows/penetration (mm) after seating

^{-*/-} Total blows/penetration (mm)

SWP Penetration under own weight (mm)

S - Standard Penetration Test (SPT)

C - SPT with cone

L - Split Spoon with liner used

APPENDIX 5

Exploratory Hole Location Plan