

SITE INVESTIGATION FACTUAL REPORT

Report No: 169121
Client: Cunningham Lindsey - Maidstone
Site: 14, Eldon Grove, London
London
Client Ref: 7441220-Mrs E Schneider Goldernberg
Date of Visit: 21/11/2013



Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys

Unit E2 First Floor Suite, Boundary Court
Willow Farm Business Park, Castle Donington
Leicestershire, DE74 2NN

☎ 0843 2272362
✉ enquiries@cet-uk.com
🌐 www.cet-uk.com

CET is the trading name of CET Structures Ltd
Registered in England No. 02527130

Investigation Layout Plan

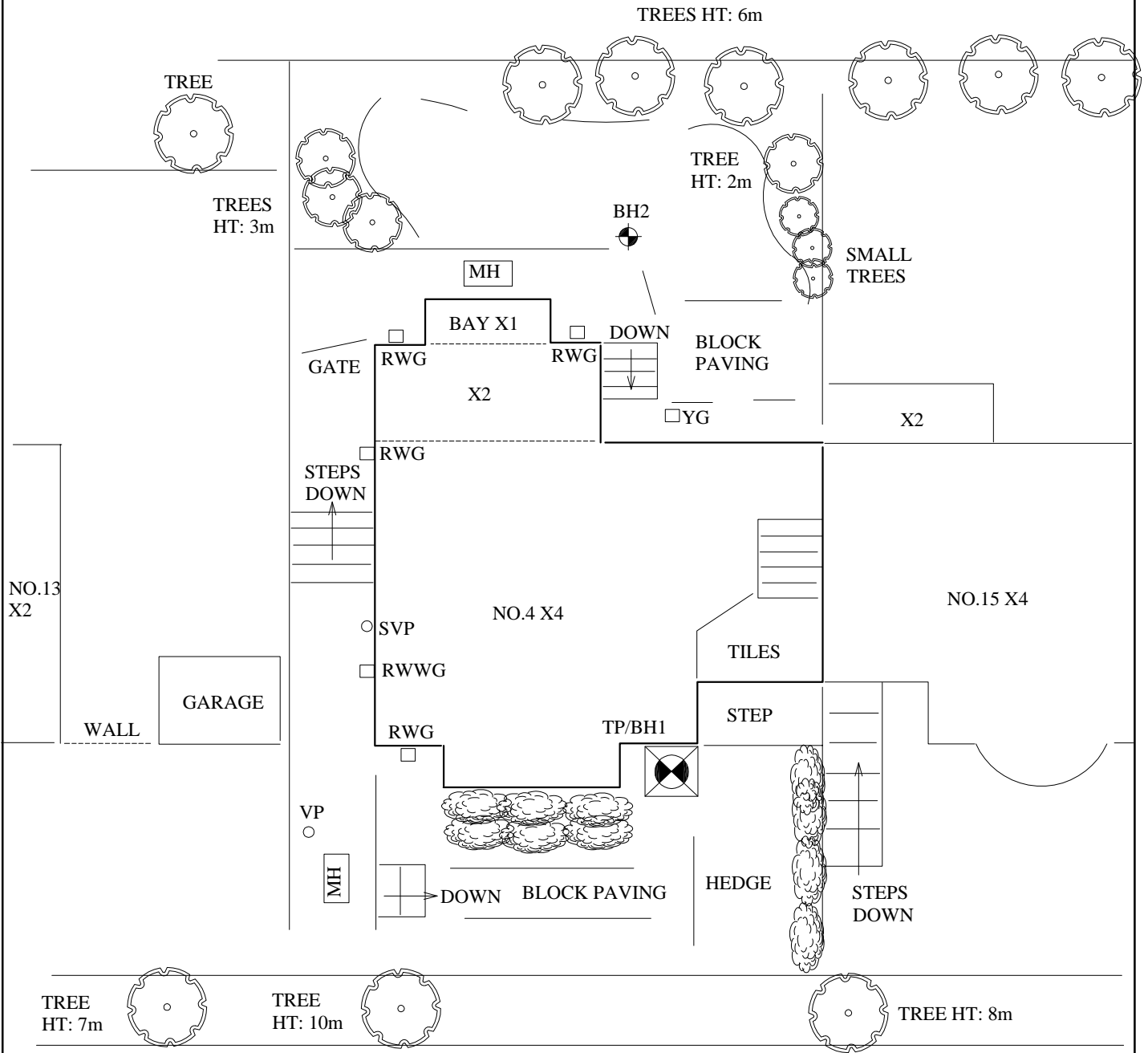
Sheet: 1 of 1
 Job No: 169121E
 Date: 11/11/2013

Site: 14 Eldon Grove, NW3

MH (SI) SE (Checked) AR (Drawn)

Weather: RAIN

Work carried out for: Cunningham Lindsey



ELDON GROVE

ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks:

Key:

| | | | |
|------------------|------|---------------------|--|
| Combined Gully | RWWG | Surface Water Drain | |
| Manhole | MH | Foul Water Drain | |
| Rain Water Pipe | RWP | Tree / Bush | |
| Rain Water Gully | RWG | (approx. ht in m) | |
| Soil Vent Pipe | SVP | Trial Pit | |
| Waste Gully | WG | Borehole | |
| Waste Pipe | WP | | |

Scale: N.T.S.

Investigation Layout Plan

Sheet: 1 of 1

Job No: 169121E

Date: 21/11/2013

Site: 14 Eldon Grove, NW3

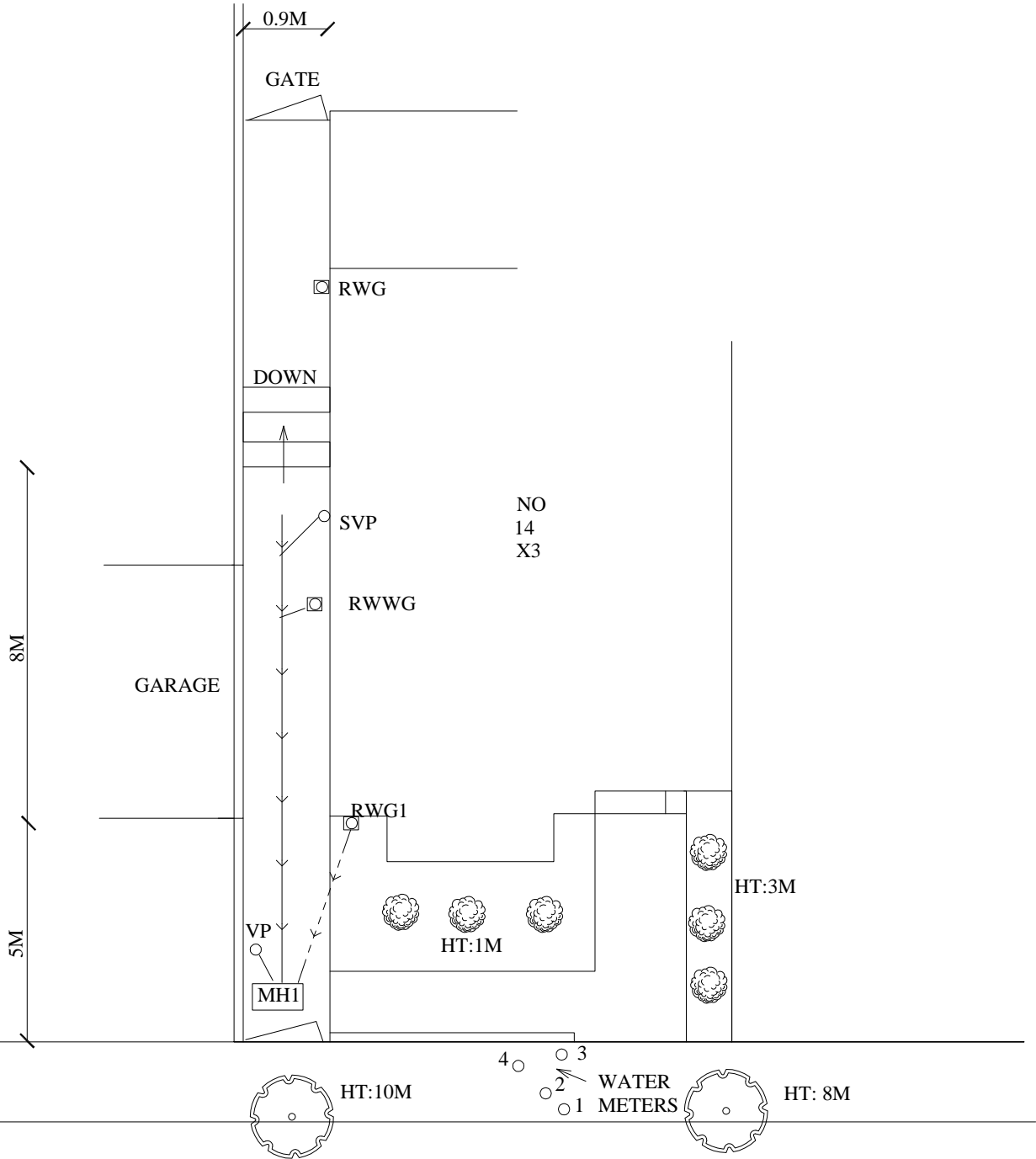
Work carried out for: Cunningham Lindsey

AC
(SI)

(Checked)

GB
(Drawn)

Weather: Dry



Remarks:

1-Basement
2-Ground Floor
3-Top Floor
4-1st Floor

Continuouss
movement of top
four water meter
with no sign of
appliances on

Key:

| | | | |
|-------------------|------|---------------------|-------------------|
| Combined Gulley | RWWG | Surface Water Drain | --- |
| Manhole | MH | Foul Water Drain | --- |
| Rain Water Pipe | RWP | Tree / Bush | (approx. ht in m) |
| Rain Water Gulley | RWG | Trial Pit | ⊠ |
| Soil Vent Pipe | SVP | Borehole | ⊙ |
| Waste Gulley | WG | | |
| Waste Pipe | WP | | |

Scale: N.T.S.

Trial Pit No: 1

Sheet: 1 of 1
 Job No: 169121E
 Date: 11.11.13

Site: 14 Eldon Grove, London NW3

Excavation Method: Hand Tools

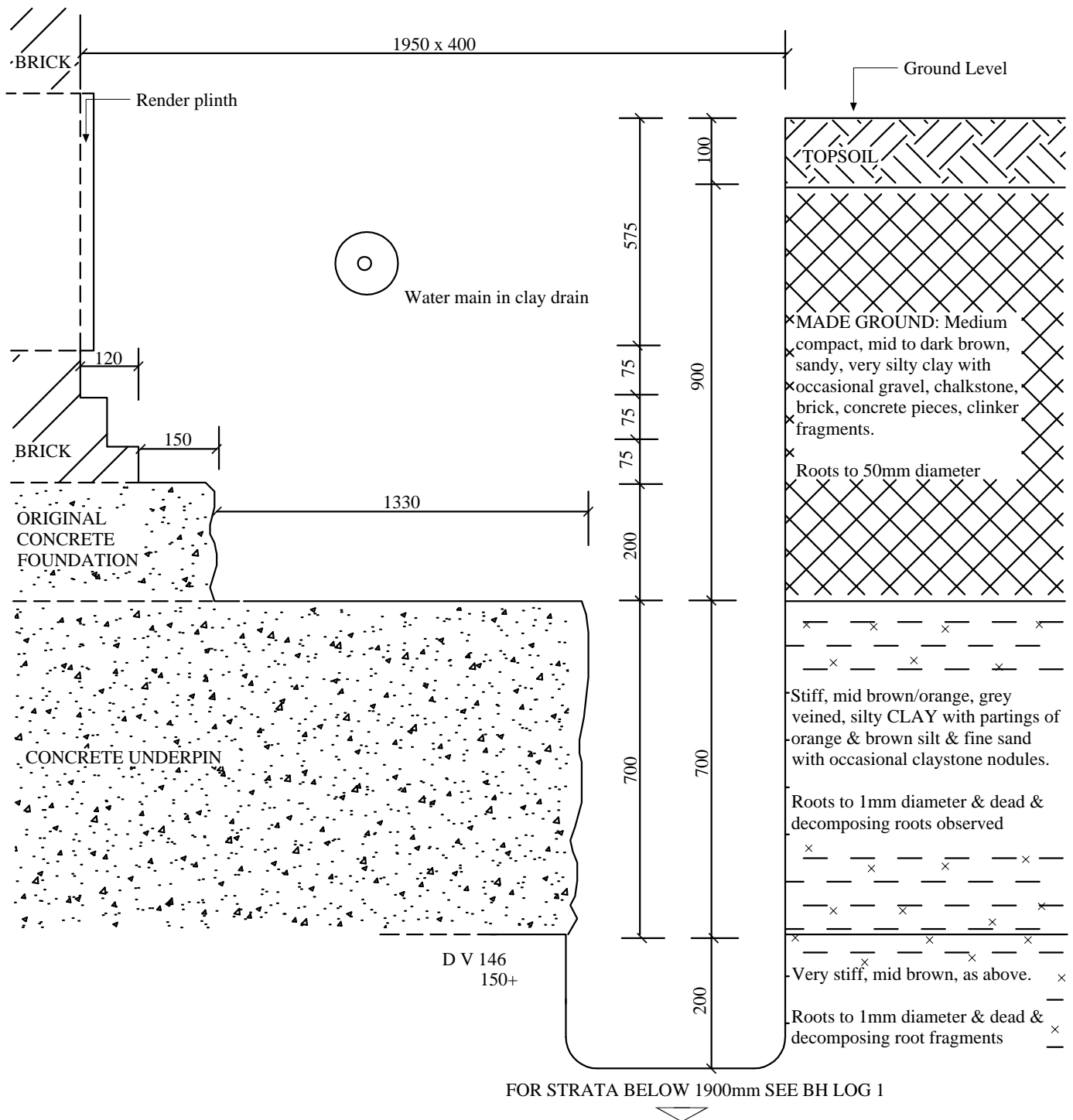
Drawn by: DVC

Work carried out for:

Cunningham Lindsey

Weather: Rain

Ground Level mOD:



Remarks: All measurements in millimetres. Thought to be underside at 1700mm. Curved steel pin hammered 300mm beyond concrete foundation. House and bay foundations are similar depth

Key: D Small disturbed sample J Jar sample
 B Bulk disturbed sample V Pilcon Vane (kPa)
 W Water sample M Mackintosh probe
 TDTD Too dense to drive

Logged: MH

Checked: SE

Approved:

Scale: N.T.S.

| Borehole No: 1 | | Sheet: 1 of 1 | | | Site: 14 Eldon Grove, London NW3 | | | | |
|--|--|------------------|--------|--------|---|--------------|--|---|--------------------|
| Boring Method: Hand Auger | | Date: 11/11/2013 | | | | | | | |
| Diameter: 75mm | | Coordinates: | | | Ground Level mOD: | | Work Carried out for: Cunningham Lindsey | | |
| Depth (m) | Description of Strata | Thick-ness (m) | Legend | Sample | Test Type | Result | Depth (m) | Field Records/Comments | Depth to water (m) |
| 1.90 | As Trial Pit 1 | 1.90 | | | | | | | |
| 3.00 | Very stiff, mid brown, grey veined, silty CLAY with partings of orange & brown silt & fine sand with occasional claystone nodules. | 1.10 | __x | D | V | 150+ 150+ | 2.00 | Roots to 1mm diameter to 3m | |
| | | | x__ | D | V | 150+ 150+ | 2.50 | | |
| 5.00 | Very stiff, as above with crystals. | 2.00 | __x. | D | V | 150+ 150+ | 3.00 | Dead & decomposing root fragments to 4.5m | |
| | | | __x | D | V | 150+ 150+ | 3.50 | | |
| | | | __x. | D | V | 150+ 150+ | 4.00 | | |
| 5.00 | Borehole ends at 5m | | x | D | V | 150+ 150+ | 4.50 | No roots observed below 4.5m | |
| | | | __ | D | V | 150+ 150+ | 5.00 | | |
| Remarks: Borehole dry and open on completion | | | | | Key: T.D.T.D. Too Dense to Drive D Small disturbed sample J Jar sample B Bulk disturbed sample V Pilcon Vane (kPa) W Water sample M Mackintosh Probe | | | | |
| Logged: MH | Checked: SE | Typed by: DVC | | | Scale: NTS | | Weather: Rain | | |

| Borehole No: 2 | | Sheet: 1 of 1 | | | Site: 14 Eldon Grove, London NW3 | | | | |
|--|--|------------------|--|-------------------|---|--|---------------|-----------------------------|------------------------------|
| Boring Method: Hand Auger | | Date: 11/11/2013 | | | | | | | |
| Diameter: 75mm | | Coordinates: | | Ground Level mOD: | | Work Carried out for: Cunningham Lindsey | | | |
| Depth (m) | Description of Strata | Thick-ness (m) | Legend | Sample | Test Type | Test Result | Depth (m) | Field Records/Comments | Depth to water (m) |
| G.L. | Turf over MADE GROUND: Medium compact, mid to dark brown, sandy, very silty clay with occasional gravel & brick, concrete & clinker fragments. | 0.20 | | | | | | Roots to 1mm diameter to 3m | |
| 0.20 | MADE GROUND: Medium compact, mid brown/orange, silty clay with occasional gravel & brick, concrete & clinker fragments | 0.30 | | | | | | | |
| 0.50 | Firm, mid brown, grey veined, silty CLAY with partings of orange & brown silt & fine sand with occasional claystone nodules. | 0.50 | ___x | | D | V 78 | 1.00 | | |
| 1.00 | Stiff, as above. | 1.50 | ___x | | D | V 104 | 1.50 | | |
| | | | ___ | | D | V 114 | 2.00 | | |
| | | | ___ | | D | V 110 | 2.50 | | |
| 2.50 | | | Stiff, mid brown, grey veined, silty CLAY with partings of orange & brown silt & fine sand with occasional claystone nodules & crystals. | 0.50 | ___x | | D | V 150+ | 3.00 |
| 3.00 | Very stiff, as above. | 2.00 | ___x | | D | V 150+ | 3.50 | | |
| | | | ___ | | D | V 150+ | 4.00 | | No roots observed below 4.2m |
| | | | ___ | | D | V 150+ | 4.50 | | |
| 5.00 | Borehole ends at 5m | | ___x | | D | V 150+ | 5.00 | | |
| Remarks: Borehole dry and open on completion | | | | | Key: T.D.T.D. Too Dense to Drive D Small disturbed sample J Jar sample B Bulk disturbed sample V Pilcon Vane (kPa) W Water sample M Mackintosh Probe | | | | |
| Logged: MH | Checked: SE | Typed by: DVC | | | Scale: NTS | | Weather: Rain | | |

Our Ref : 169121

Laboratory Testing Results

Date Sampled: 11/11/2013

Location : 14, Eldon Grove, NW3

Date Received : 12/11/2003

Work carried out for: Cunningham Lindsey - Maidstone

Date Tested : 13/11/2013

Date of Report : 20/11/2013

| Sample Ref | | Type | Moisture Content (%) [1] | Soil Fraction > 0.425mm (%) [2] | Liquid Limit (%) [3] | Plastic Limit (%) [4] | Plasticity Index (%) [5] | Liquidity Index [5] | Modified Plasticity Index (%) [6] | Soil Class [7] | Filter Paper Contact Time (h) [8] | Soil Sample Suction (kPa) | In situ Shear Vane Strength (kPa) [9] | Organic Content (%) [10] | pH Value [11] | Sulphate Content (g/l) | | Class [14] |
|------------|-----------|------|-----------------------------|---------------------------------------|-------------------------|--------------------------|-----------------------------|------------------------|--------------------------------------|-------------------|--------------------------------------|------------------------------|--|-----------------------------|------------------|---------------------------|-------------------------|---------------|
| TP/BH No | Depth (m) | | | | | | | | | | | | | | | SO ₃ [12] | SO ₄ [13] | |
| 1 | 1.70(U/S) | D | 25 | <5 | 67 | 25 | 42 | -0.01 | 42 | CH | | | 148 | | | | | |
| | 2.0 | D | 24 | <5 | 68 | 22 | 46 | 0.05 | 46 | CH | | | > 150 | | | | | |
| | 2.5 | D | 27 | <5 | | | | | | | | | > 150 | | | | | |
| | 3.0 | D | 27 | <5 | 68 | 24 | 44 | 0.07 | 44 | CH | | | > 150 | | | | | |
| | 3.5 | D | 29 | <5 | | | | | | | | | > 150 | | | | | |
| | 4.0 | D | 30 | <5 | | | | | | | | | > 150 | | | | | |
| | 4.5 | D | 29 | <5 | | | | | | | | | > 150 | | | | | |
| | 5.0 | D | 31 | <5 | | | | | | | | | > 150 | | | | | |

Test Methods / Notes

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
- [2] Estimated if <5%, otherwise measured
- [3] BS 1377 : Part 2 : 1990, Test No 4.4
- [4] BS 1377 : Part 2 : 1990, Test No 5.3
- [5] BS 1377 : Part 2 : 1990, Test No 5.4
- [6] BRE Digest 240 : 1993
- [7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils
- [8] In-house method S9a adapted from BRE IP 4/93

- [9] Values of shear strength were determined in situ by CET using a Pilcon hand vane or Geonor vane (GV).
 - [10] BS 1377 : Part 3 : 1990, Test No 4
 - [11] BS 1377 : Part 2 : 1990, Test No 9
 - [12] BS 1377 : Part 3 : 1990, Test No 5.6
 - [13] SO₄ = 1.2 x SO₃
 - [14] BRE Special Digest One (Concrete in Aggressive Ground) August 2005
- Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key

- D Disturbed sample (small)
- B Disturbed sample (bulk)
- U Undisturbed sample
- W Groundwater sample
- ENP Essentially Non-Plastic by inspection
- U/S Underside of Foundation

Our Ref : 169121

Laboratory Testing Results

Date Sampled : 11/11/2013

Location : 14, Eldon Grove, NW3

Date Received : 12/11/2003

Work carried out for: Cunningham Lindsey - Maidstone

Date Tested : 13/11/2013

out for:

Date of Report : 20/11/2013

| Sample Ref. | | Type | Moisture Content (%) [1] | Soil Fraction > 0.425mm (%) [2] | Liquid Limit (%) [3] | Plastic Limit (%) [4] | Plasticity Index (%) [5] | Liquidity Index [5] | Modified Plasticity Index (%) [6] | Soil Class [7] | Filter Paper Contact Time (h) [8] | Soil Sample Suction (kPa) | In situ Shear Vane Strength (kPa) [9] | Organic Content (%) [10] | pH Value [11] | Sulphate Content (g/l) | | Class [14] |
|-------------|-----------|------|--------------------------|---------------------------------|----------------------|-----------------------|--------------------------|---------------------|-----------------------------------|----------------|-----------------------------------|---------------------------|---------------------------------------|--------------------------|---------------|------------------------|----------------------|------------|
| TP/BH No. | Depth (m) | | | | | | | | | | | | | | | SO ₃ [12] | SO ₄ [13] | |
| BH2 | 1.0 | D | 30 | <5 | 75 | 23 | 52 | 0.15 | 52 | CV | | | 78 | | | | | |
| | 1.5 | D | 31 | <5 | | | | | | | | | 105 | | | | | |
| | 2.0 | D | 29 | <5 | 74 | 25 | 49 | 0.09 | 49 | CV | | | 115 | | | | | |
| | 2.5 | D | 30 | <5 | | | | | | | | | 110 | | | | | |
| | 3.0 | D | 30 | <5 | 73 | 26 | 47 | 0.09 | 47 | CV | | | > 150 | | | | | |
| | 3.5 | D | 30 | <5 | | | | | | | | | > 150 | | | | | |
| | 4.0 | D | 29 | <5 | | | | | | | | | > 150 | | | | | |
| | 4.5 | D | 29 | <5 | | | | | | | | | > 150 | | | | | |
| | 5.0 | D | 30 | <5 | | | | | | | | | > 150 | | | | | |

Test Methods / Notes

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
- [2] Estimated if <5%, otherwise measured
- [3] BS 1377 : Part 2 : 1990, Test No 4.4
- [4] BS 1377 : Part 2 : 1990, Test No 5.3
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- [6] BRE Digest 240 : 1993
- [7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils
- [8] In-house method S9a adapted from BRE IP 4/93

[9] Values of shear strength were determined in situ by CET using

a Pilcon hand vane or Geonor vane (GV).

[10] BS 1377 : Part 3 : 1990, Test No 4

[11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6

[13] SO₄ = 1.2 x SO₃

[14] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key

- D Disturbed sample (small)
- B Disturbed sample (bulk)
- U Undisturbed sample
- W Groundwater sample
- ENP Essentially Non-Plastic by inspection
- U/S Underside of Foundation

Our Ref : 169121

Location : 14, Eldon Grove, NW3

Work carried out for: Cunningham Lindsey - Maidstone

Moisture Content and Shear Strength Profiles

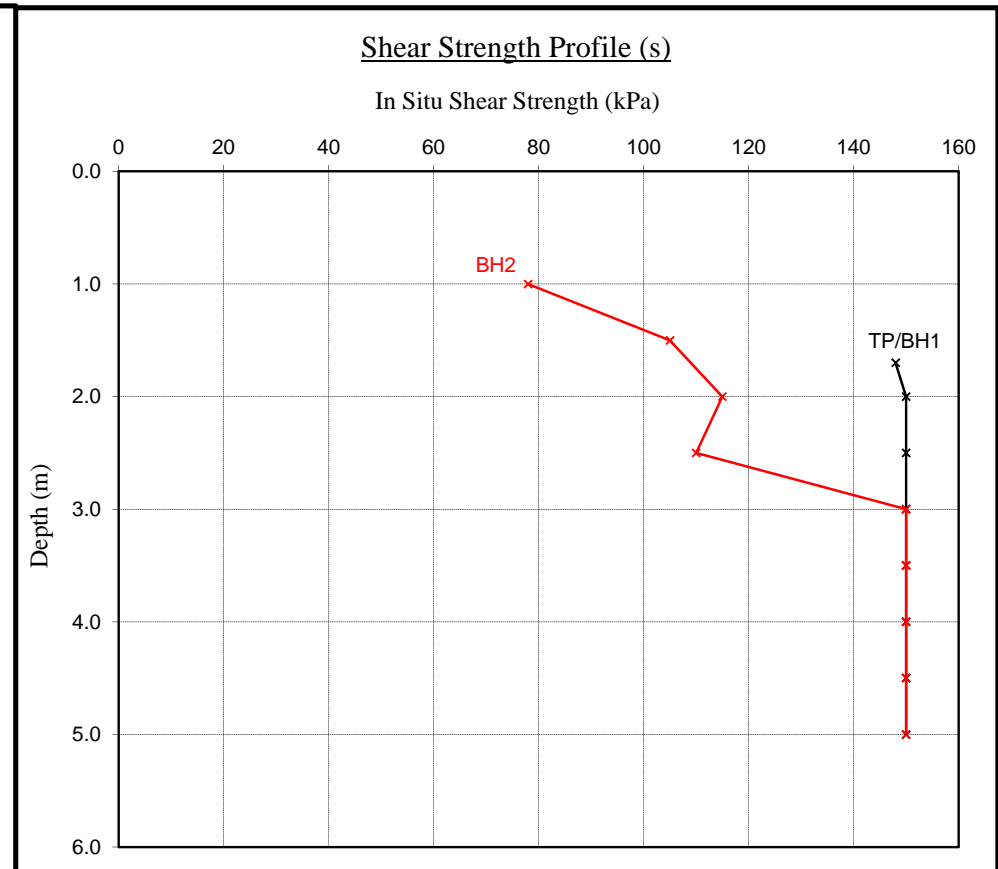
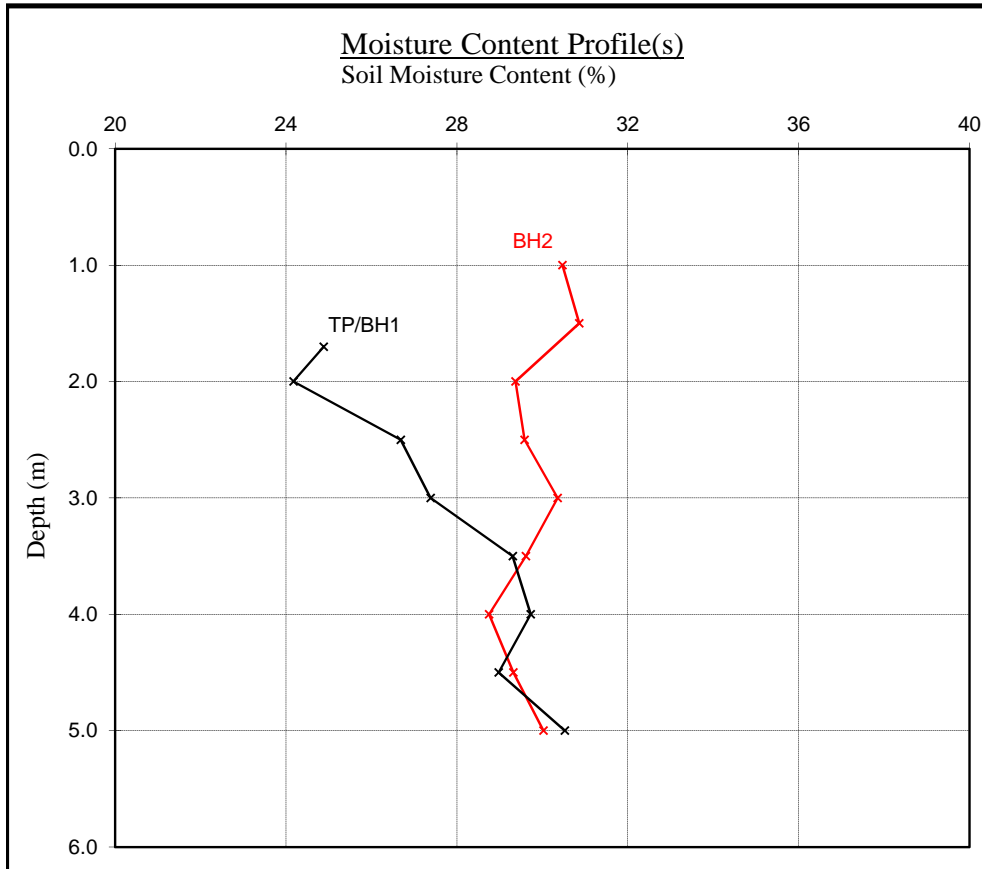
Date Sampled : 11/11/2013

Date Received : 12/11/2013

Date Tested : 13/11/2013

Date of Report : 20/11/2013

Note : Unless specifically noted the profiles have not been related to a site datum.



Notes

1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

Note

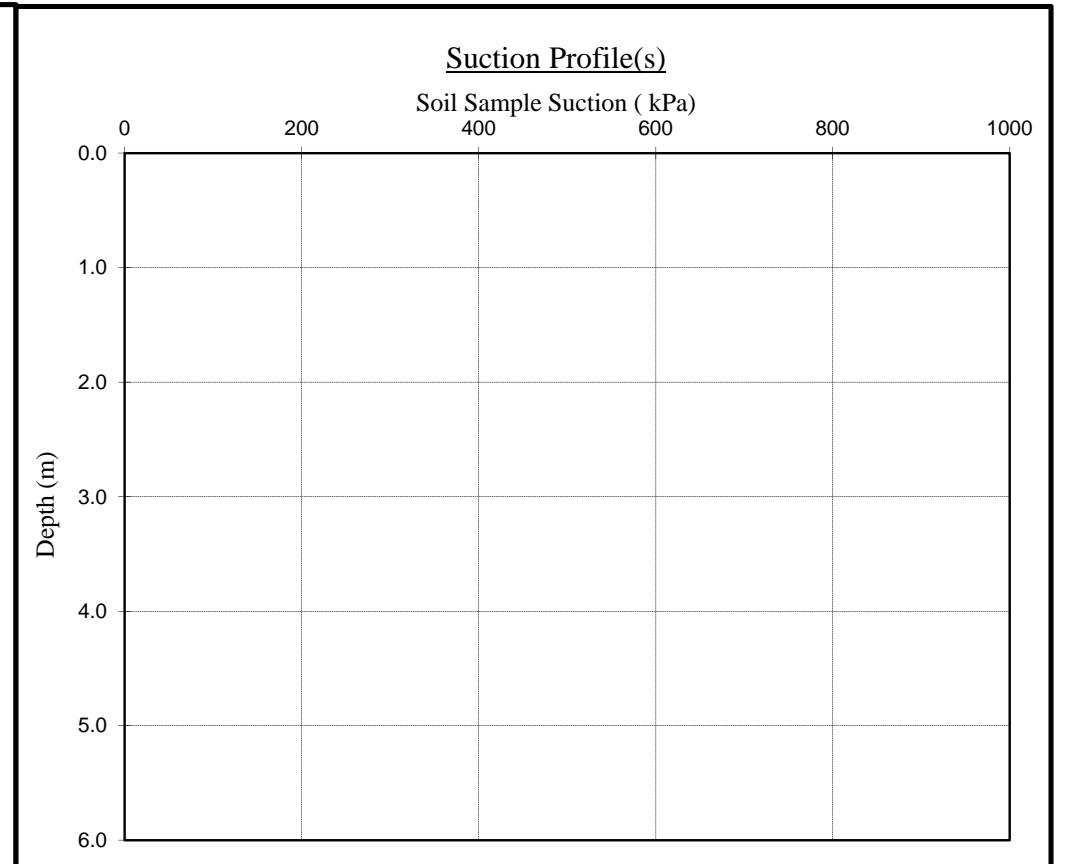
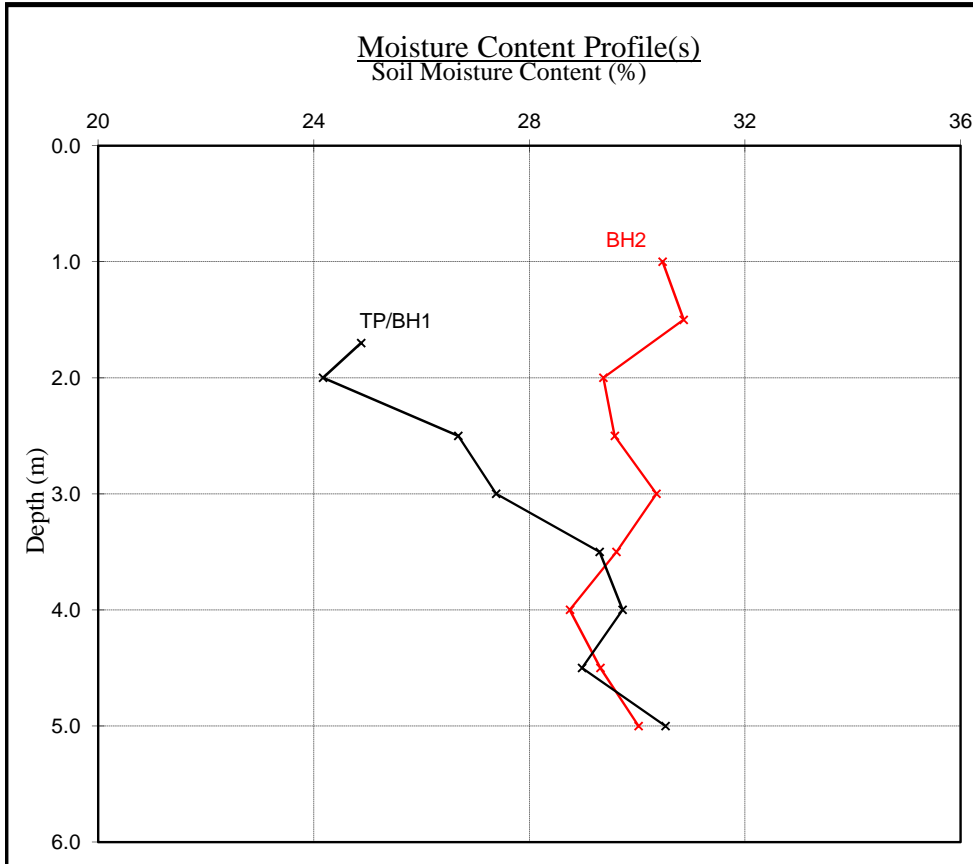
Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 150 kPa.

Moisture Content and Suction Profiles

Our Ref : 169121
 Location : 14, Eldon Grove, NW3
 Work carried out for: Cunningham Lindsey - Maidstone

Note : Unless specifically noted the profiles have not been related to a site datum.

Date Sampled : 11/11/2013
 Date Received : 12/11/2003
 Date Tested : 13/11/2013
 Date of Report : 20/11/2013



Notes

1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

Note

When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BRE on the basis of their limited number of tests on recompacted samples. This may or may not be appropriate in this instance and judgement should be exercised.

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated. The results were as follows -

| <u>Trial pit/ Borehole number</u> | <u>Root diameter (mm)</u> | <u>Tree, shrub or climber from which root originates</u> | <u>Result of starch test</u> |
|---|-------------------------------|---|----------------------------------|
| TP1 (USF) | 1 mm | Carpinus spp. 3 roots | Positive |
| BH2 (to 3m) | 1 mm | Carpinus spp. 3 roots | Positive |
| BH2 (to 3m) | <1 mm | broadleaved species, too decayed for positive identification 4 roots | Negative |

Carpinus spp. are hornbeams.


MDM

Address for correspondence: EPSL , Intec, Parc Menai, Bangor, Gwynedd, North Wales, LL57 4FG

Telephone: 01248 672 652

e-mail: lab@marishalthompson.co.uk

Head of Laboratory Services : *MD Mitchell B.Sc. (Hons), M.Phil.*

Plant Anatomist : *Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D*

Consultant: *Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D*

Registered in England. No 295427, Registered Office: 6G Greensfield Court, Alnwick, Northumberland, NE66 2DE

To: Cunningham Lindsey - Maidstone
4 North Court
South Park Business Village
Armstrong Road
Kent
ME15 6JZ

Our Ref: **169121**
Your Ref: **7441220**
Date: **22-Nov-13**

Ftiao: Bob Walker

| |
|-----------------|
| ESTIMATE |
|-----------------|

Site:- **14, Eldon Grove, London**

| Item | | Amount |
|------|--|--------|
| | No recommendations required to the private drainage surveyed. | |

Notes

| | | |
|---|-------|-------|
| Repairs to shared runs and off boundary pipe-work may be the responsibility of the water authority. | Total | £0.00 |
|---|-------|-------|

Condition Grade

| | | |
|---|--------------------|--------------|
| A - Structurally sound with no leakage evident. | plus VAT @20% | £0.00 |
| B - Cracks and fractures observed. | | |
| C - Structurally unsound | Total + VAT | £0.00 |

Quotation is binding only if accepted within 28 days from date of issue and is subject to our Standard Terms and Conditions
The price qualification notes, stated on the drainage solutions schedule of rates, apply to this quotation.
CET Structures Ltd undertakes to return to site free of charge to carry out remedial work to the drainage repairs set out above for a period of 2 months from the date of this invoice. The company standard charge rates will apply to the visit should the work requested be unrelated to the said repairs.

Underground Drainage Report

Sheet: 1 of 2

Site: 14, Eldon Grove, London

Job No: 169121

Work carried out for: Cunningham Lindsey - Maidstone

Date: 21-Nov-13

MANHOLE DETAILS

| Manhole | Depth to Invert | Condition |
|---------|-----------------|-----------|
| MH1 | 3850mm | As built |

CCTV Survey:-

1. Drainage Run:

From Manhole 1 run A to 10 metres upstream-150mm cast iron combined -upstream (shared with flats)

| Metres: | Code: | Observations: | Surface Material/ Condition: |
|---------|-------|-----------------------------|---------------------------------|
| 0.0 | | Start | Brick Paving |
| 6.8 | JN | At 1 o'clock, 100mm - RWWG1 | |
| 9.6 | JN | At 2 o'clock, 100MM - SVP1 | |
| 10.0 | FH | Reached 10 m U/S | |

2. Drainage Run:

From rain water gully 1 run X to manhole 1-100mm cast iron surface water-downstream (shared with flats)

| Metres: | Code: | Observations: | Surface Material/ Condition: |
|---------|-------|-------------------------------|---------------------------------|
| 0.0 | | Start | Flower bed for 1.0m then |
| 2.4 | LD | | Brick paving |
| 2.4 | FH | Reached MH1-internal backdrop | |

END OF SURVEY

Water Test Grade:

- | | |
|--------------------|--------------------------------|
| 0 - Unable to fill | 2 - Medium Loss over 2 minutes |
| 1 - Heavy Loss | 3 - Slow Loss over 5 minutes |
| | 4 - No Loss |

Underground Drainage Report

Sheet: 2 of 2

Job No: 169121

Date: 21-Nov-13

Site: 14, Eldon Grove, London

Work carried out for: Cunningham Lindsey - Maidstone

Our assessment of the drainage system is based on our visual inspection and on information collated at the time of the survey. Where assumptions have been made these are based on our experience and do not constitute any form of guarantee, nor do we guarantee that further deterioration will not occur following this survey. CCTV video records will be stored for a period of 3 months from date of inspection and then destroyed.

Water Test Grade:

0 - Unable to fill

1 - Heavy Loss

2 - Medium Loss over 2 minutes

3 - Slow Loss over 5 minutes

4 - No Loss

Water Authority Sewer Condition Codes

| | |
|--|---|
| B Broken pipe at... (or from... to...) o'clock | JN Junction at...o'clock, diameter...mm |
| BR Branch Major | JX Junction defective at.. o'clock, diameter.. mm |
| CC Crack circumferential from... to... o'clock | LC Lining of sewer changes/starts/finishes at this point |
| CL Crack longitudinal @... o'clock | LD Line of sewer deviates down |
| CM Cracks multiple from... to... o'clock | LL Line of sewer deviates left |
| CN Connection at... o'clock, diameter... mm | LN Line defect at (or from.. to..) o'clock |
| CNI Connection at... o'clock, diameter... mm, intrusion... mm | LR Line of sewer deviates right |
| CU Camera under water | LU Line of sewer deviates up |
| CX Connection defective at... o'clock | MB Missing bricks at.. (or from.. to..) o'clock |
| CXI Connection defective at... o'clock, diameter... mm, intrusion... mm | MC Material of sewer changes at this point |
| D Deformed sewer... % | MH Manhole/node |
| DB Displaced bricks at (or from.. to..) o'clock | MM Mortar missing medium at.. (or from.. to..) o'clock |
| DC Dimension of sewer changes at this point | MS Mortar missing surface at.. (or from.. to..) o'clock |
| DE Debris (non silt/grease)... % cross-sectional loss | MT Mortar missing total at.. (or from.. to..) o'clock |
| DEG Debris grease... % cross-sectional area loss | OB Obstruction... % height/diameter loss |
| DES Debris silt... % cross-sectional area loss | OJL Open joint large |
| DI Dropped invert, gap... mm | OJM Open joint medium |
| EHI Encrustation heavy from.. to.. o'clock % cross-sectional area loss (at joint) | PC Length of pipe forming sewer changes at this point, new length...mm |
| ELJ Encrustation light from.. to.. o'clock% | RFJ Roots fine (at joint) |
| EMJ Encrustation medium from.. to.. o'clock %, cross-sectional area loss (at joint) | RMJ Roots mass... % cross-sectional area loss (at joint) |
| ESH Scale heavy... % cross-sectional area loss from... to... o'clock | RTJ Roots tap (at joint) |
| ESL Scale light from... to... o'clock | SA Survey abandoned |
| ESM Scale medium... % cross-sectional area loss from... to... o'clock | SC Shape of sewer changes at this point |
| FC Fracture circumferential from... to... o'clock | SSL Surface damage, spalling large at (or from.. to..) o'clock |
| FL Fracture longitudinal at... o'clock | SSM Surface damage, spalling medium at (or from.. to..) o'clock |
| FM Fractures multiple from... to... o'clock | SSS Surface damage, spalling slight at (or from.. to..) o'clock |
| GO General observation at this point | SWL Surface damage, wear large at... (or from.. to..) o'clock |
| GP General photograph number... taken at this point | SWM Surface damage, wear medium at... (or from.. to..) o'clock |
| H Hole in sewer at... o'clock | SWS Surface damage, wear slight at.. (or from.. to..) o'clock |
| IDJ Infiltration dripper at (or from... to...) o'clock (at joint) | V Vermin (rats and mice) |
| IGJ Infiltration gusher at (or from... to...) o'clock (at joint) | WL Water level... % height/diameter |
| IRJ Infiltration runner at (or from... to...) o'clock (at joint) | X Sewer collapsed... % cross-sectional area loss |
| ISJ Infiltration seeper at (or from... to...) o'clock (at joint) | FH End of survey |
| JDM Joint displaced medium | |
| JDL Joint displaced large | |

Contract: 169121

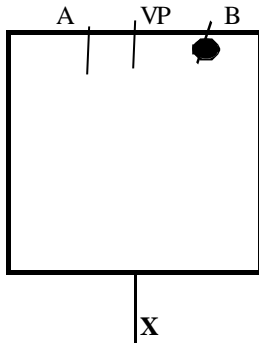
Date: 21-Nov-13

Site Address: 14, Eldon Grove, London

Operative Initial: AC

Page: 1 of 1

M/H: 1 Depth: 3850mm



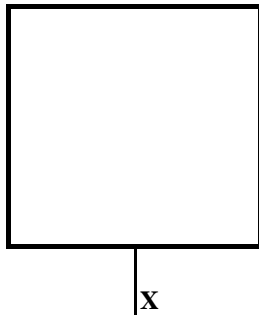
Chamber Dimension (mm): 900/550

Depths of run if different to invert level:-

- A _____
- B 1200MM
- C _____
- D _____
- E _____
- F _____
- G _____
- H _____

Manhole Condition
As built

M/H: Depth:



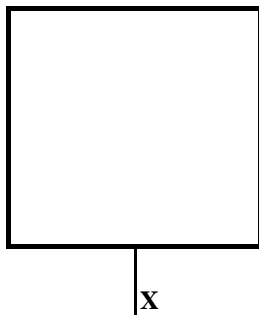
Chamber Dimension (mm):

Depths of run if different to invert level:-

- A _____
- B _____
- C _____
- D _____
- E _____
- F _____
- G _____
- H _____

Manhole Condition

M/H: Depth:



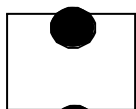
Chamber Dimension (mm):

Depths of run if different to invert level:-

- A _____
- B _____
- C _____
- D _____
- E _____
- F _____
- G _____
- H _____

Manhole Condition

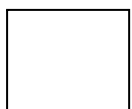
KEY....



Internal Back Drop



External Back Drop



Run X Interceptor

Water Pressure Test Results

From: To: Pass / Fail