

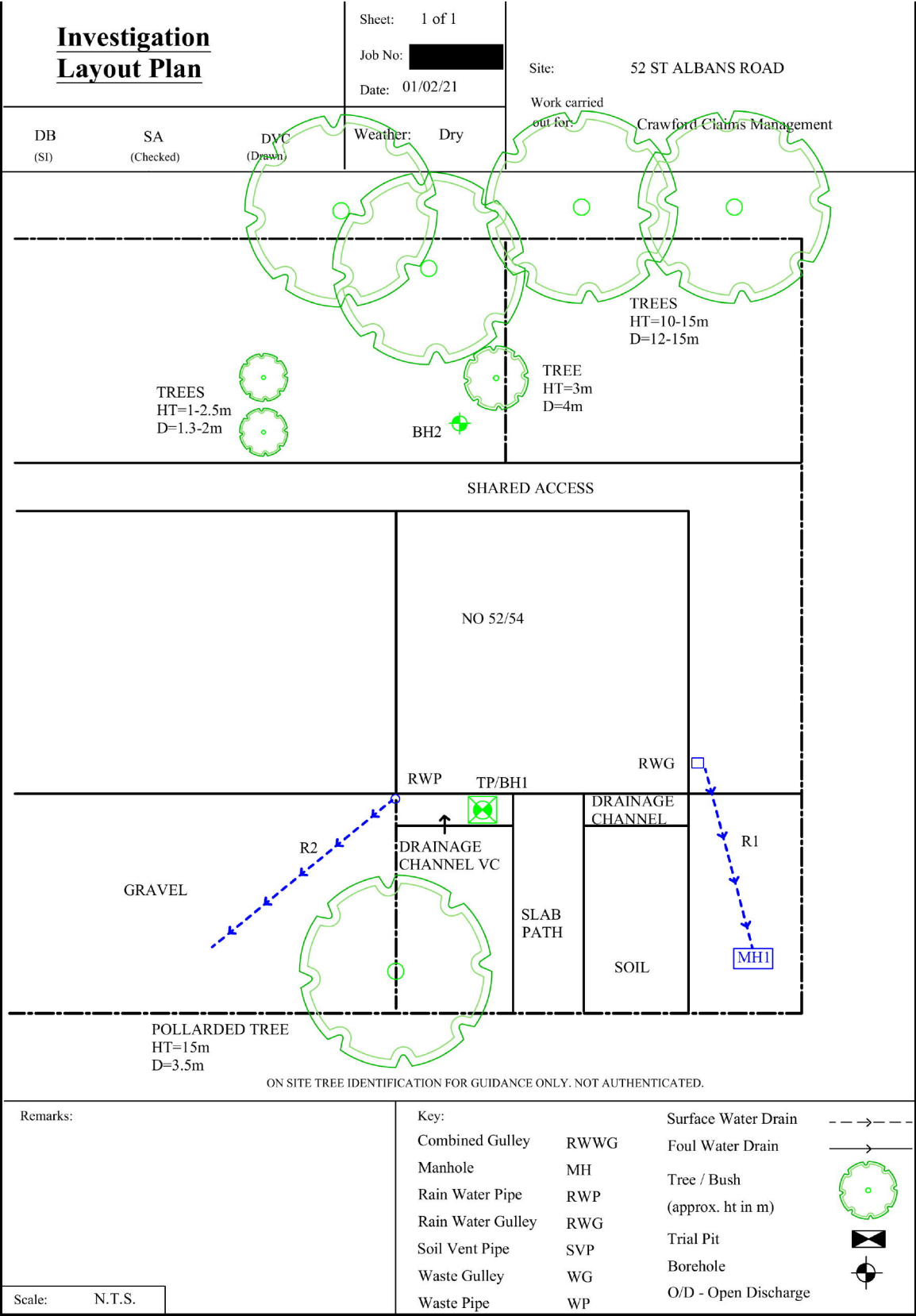
## SITE INVESTIGATION FACTUAL REPORT

Report No: [REDACTED]  
Client: Crawford Claims Management  
Site: 52 ST ALBANS ROAD, LONDON  
Client Ref: [REDACTED]  
Date of Visit: 01/02/2021



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





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## SITE INVESTIGATION LABORATORY TEST REPORT

SI REPORT NUMBER:



CLIENT :

CET Property Assurance (Crawford Claims Management)

SITE:

52 St Albans Road  
London

DATE OF SITE VISIT:

01/02/2021

DATE RECEIVED BY LABORATORY:

04/02/2021

Compiled by

J. Garrett - Laboratory Supervisor (B)

Approved by

J. Garrett - Laboratory Supervisor (B)

DATE REPORTED: 12-Feb-2021

## Laboratory Summary Results

Our Ref: [REDACTED]

Location: 52, St Albans Road, London

Client: CET Property Assurance (Crawford Claims Management)

Address: [REDACTED]

Date Sampled: 01/02/2021

Date Received: 04/02/2021

Date Tested: 04/02/2021

Date of Report: 12/02/2021

TP/BH No	Sample Ref Depth (m)	Type	Moisture Content (%) [1]	Soil Friction > 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 (d)	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated * Heave Potential (Dd) (mm) [10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH * Value [13]	Sulphate Content * (g/l)		* Class [16]
																		SO <sub>3</sub> [14]	SO <sub>4</sub> [15]	
1	U/S 0.80	D	34	<5	78	24	54	0.18	54	CV	7	200			103					
	1.0	D	28	<5											100					
	1.5	D	29	<5											105					
	2.0	D	31	<5	80	28	52	0.07	52	CV	7	596			> 140					
	2.5	D	31	<5											> 140					
	3.0	D	33	<5	79	29	50	0.08	50	CV	7	549			> 140					

### Test Methods / Notes

[1] BS 1377: Part 2: 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377: Part 3: 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 5936: 2018: Figure 8 - Plasticity Chart for the classification of fine soils

[8] In-house method SO adopted from BRE IP 4193

[9] In-house Test Procedure S17a: One Dimensional Swell/Shrink Test

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CPT using a Picon hand vane or Geotest vane (GV).

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

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

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

[15] SO<sub>3</sub>: 1.2 x SO<sub>4</sub>

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

Note that if the SO<sub>4</sub> 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.

\* These tests are not UKAS accredited.

Full reports can be provided upon request.

### Key

- D Disturbed sample (small)
- B Disturbed sample (bulk)
- U Undisturbed sample
- W Groundwater sample
- FNP Presentially Non-Plastic by inspection
- US Underside of Foundation



Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the laboratory.

Version: 5BH V1 - 06.01.21

0927

Our Ref: [REDACTED]

## Laboratory Testing Results

Date Sampled : 01/02/2021

Location : 52, St Albans Road, London

Date Received : 04/02/2021

Client: CET Property Assurance (Crawford Claims Management)

Date Tested : 04/02/2021

Address: [REDACTED]

Date of Report : 12/02/2021

Sample Ref. TP/HH No.	Depth (m)	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 (d)	Soil Sample Suction (kPa) [8]	Oedometer Strain (%) [9]	Estimated * Heave Potential (Dd) (mm) [10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH * Value (13)	Sulphate Content * (g / l)		* Class (16)
																		SO3 (14)	SO4 (15)	
BH2	1.0	D	33	<5	85	26	59	0.11	59	CV	7	291			125					
	1.5	D	27	<5																
	2.0	D	31	<5	76	28	48	0.07	48	CV	7	427			135					
	2.5	D	34	<5																
	3.0	D	33	<5	76	28	48	0.11	48	CV	7	358			> 140					

### Test Methods / Notes

[1] BS 1377: Part 2: 1990, Test No 3.2

[2] Estimated if &lt;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

Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the laboratory.

[9] In-house method not adopted from BS 5930: 1981

[10] In-house Test Procedure S17a: One Dimensional Swell-Strain Test

[11] Estimated Heave Potential (Dd)

[12] Values of shear strength were determined in situ by CPT using

a Picon hand vane or Geotest vane (GV).

[13] BS 1377: Part 2: 1990, Test No 4

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

[15] BS 1377: Part 2: 1990, Test No 5.6

[16] SO<sub>3</sub> = 1.2 x SO<sub>4</sub>

[10] BRE Special Digest One (if concrete in Aggressive Ground) August 2005

Note that if the SO<sub>4</sub> 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.

\* These tests are not UKAS accredited

Full reports can be provided upon request

### Key

D Disturbed sample (small)

B Disturbed sample (bulk)

U Undisturbed sample

W Groundwater sample

ESP Essentially Non-Plastic by inspection

US Underside of Foundation



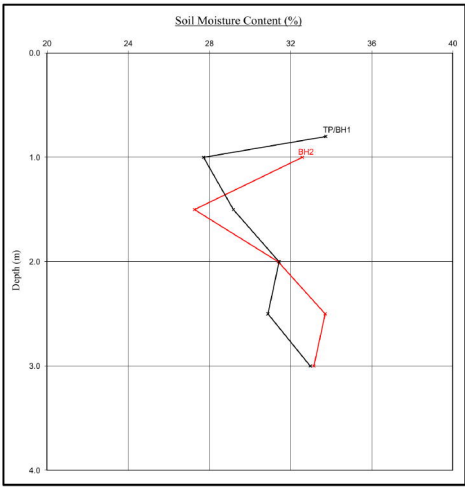
Version: SBH V1 - 06.01.21

0927



Moisture Content Profiles

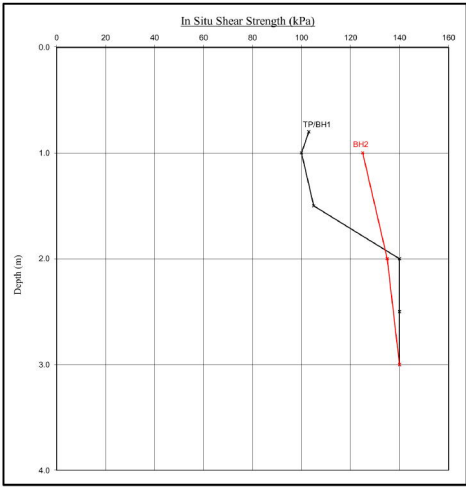
Our Ref: XXXXXXXXXX  
Location: 52, St Albans Road, London  
Work carried out for: CET Property Assurance (Crawford Claims Management)



Notes  
1. If plotted, 0.4 LL and PL-2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.  
2. Unless specifically noted the profiles have not been related to a site datum.

Shear Strength Profiles

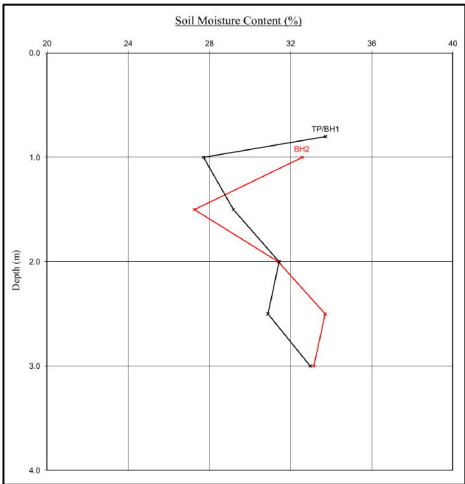
Date Sampled: 01/02/2021  
Date Received: 04/02/2021  
Date Tested: 04/02/2021  
Date of Report: 12/02/2021



Note  
1. Unless otherwise noted, values of Shear Strength were determined in situ by CET using a Pison Hand Vane the calibration of which is limited to a maximum reading of 140 kPa.  
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

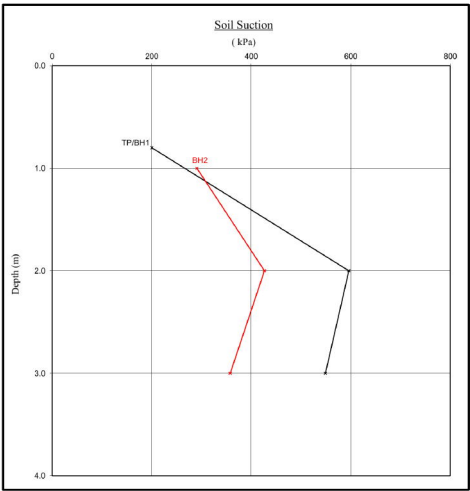
Our Ref: [redacted]  
Location: 52, St Albans Road, London  
Work carried out for: CET Property Assurance (Crawford Claims Management)



Notes  
1. If plotted,  $0.4 LL$  and  $PI-2$  (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.  
2. Unless specifically noted the profiles have not been related to a site datum.

Soil Suction Profiles

Date Sampled: 01/02/2021  
Date Received: 04/02/2021  
Date Tested: 04/02/2021  
Date of Report: 12/02/2021



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 dependent 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.



To:	Crawford Claims Management	Client Ref:	
Flao:		Job No:	
Site:	52 ST ALBANS ROAD	Claim No:	
		Date:	04-Feb-21
ESTIMATE			
Item			
1.0	Location	run 1 MH1 upstream RWG1	
	Shared System	no	
	Condition Grade	B	
	Drain Serviceability	Unserviceable	
	Work Spec	root cut and 5 metre 100mm liner	
Notes			
Repairs to shared runs and off boundary pipe-work may be the responsibility of the water authority.			
Condition Grade			
A - Structurally sound with no leakage evident.			
B - Cracks and fractures observed.			
C - Structurally unsound			
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.			

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE				Client Ref
Site:-		52 ST ALBANS ROAD		Job No.
Client :-		Crawford Claims Management		Claim No.
				Date
				Recommendation
				1
Rate Code	Description	Unit	Qty	
	run 1 MH1 upstream RWG1			
TITLE	Survey			
SN0561	Mechanical Root Cutting	m	5	
TITLE	Drain Lining			
SN1133	Van pack HPWJ & CCTV in preparation of lining	nr	1	
SN1135	Drain Lining - Initial Set-Up Fee (0-3.0m)	nr	1	
SN1140	Drain Lining - 100mm. Install Structural liner into existing 100mm underground drain. 3mm Wall thickness.	m	2	
<b>Total subject to VAT @ 20%</b>				

Note: Subject to the attached Terms and Conditions

Depths are taken to the base of excavations. Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed. All rates exclude VAT. Depths are taken to the base of excavations. The above rates are subject to re-measurement. Daywork rates do not include for materials that are charged at cost plus

KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour

<b>Coding Sheet</b>	Sheet:	1	Site:	52 ST ALBANS ROAD				
	Job No.:							
	Date:	#####	Client:	Crawford Claims Management				

<b>Run:</b>	<b>1</b>									
From:	MH1		Invert Level:	1350		Direction:	U/S			
To:	rwg1		Invert Level:			Function:	S/W			
Pipe Material:	VC		Pipe Dia:	100						
Water/Pressure Test:			Drain Break-In:	No		Gully Condition:	As Built			
Distance (m)	Code	Clock Ref at to	Dia mm	Intrusion %	mm	Shared Run:	Yes			
						If Shared How:	Via the guttering			
0.00	ST					Remarks	Surface Material	Length (m)		
0.80	CC	12 12				Crack circumferential	slabs	4		
1.90	CC	12 12				Crack circumferential				
1.90	RFJ					Roots fine at joint				
3.20	DES			20		Debris silt				
4.00	DES			100		Debris silt				
4.00	FH					unable to push				
Comments:										
gully pot was full of silt.had to clear out by hand to get direction of outfall.see photos.poured water in gully.pot just fills up.										

<b>Run:</b>	<b>2</b>									
From:	rwg2		Invert Level:			Direction:	D/S			
To:	side		Invert Level:			Function:	S/W			
Pipe Material:	PVC		Pipe Dia:	100						
Water/Pressure Test:			Drain Break-In:	Yes		Gully Condition:	As Built			
Distance (m)	Code	Clock Ref at to	Dia mm	Intrusion %	mm	Shared Run:	Yes			
						If Shared How:	With flats			
0.00	ST					Remarks	Surface Material	Length (m)		
1.50	LR					Line deviates right	Gravel	3		
2.10	GO					lined				
3.00	FH					End of survey				
Comments:										
shared with flats+off boundry.										

Manhole Details

Sheet:1

Site:52 ST ALBANS ROAD

Job No.:

Date:01/02/21

Client:Crawford Claims Management

MH:-MH1

Depth:-1350 (mm)

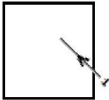
Depths of run if different to invert level:-

Run	Depth (mm)
1	1250

Manhole Condition:-Very Good

Reasons for poor condition.

Chamber Dimension:-600 / 750 (mm)



MH:-

Depth:- (mm)


Depths of run if different to invert level:-

Run	Depth (mm)

Manhole Condition:-

Reasons for poor condition.

Chamber Dimension:- / (mm)



MH:-

Depth:- (mm)


Depths of run if different to invert level:-

Run	Depth (mm)

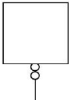
Manhole Condition:-


Reasons for poor condition.


Chamber Dimension:- / (mm)



Key

Interceptor

Internal Back Drop.

External Back Drop.

Additional Comments for Poor Condition