

# **SITE INVESTIGATION FACTUAL REPORT**

Client: Crawford Claims Management

Site: Flat 2, 34 Frognall

Date of Visit: 16/01/2020





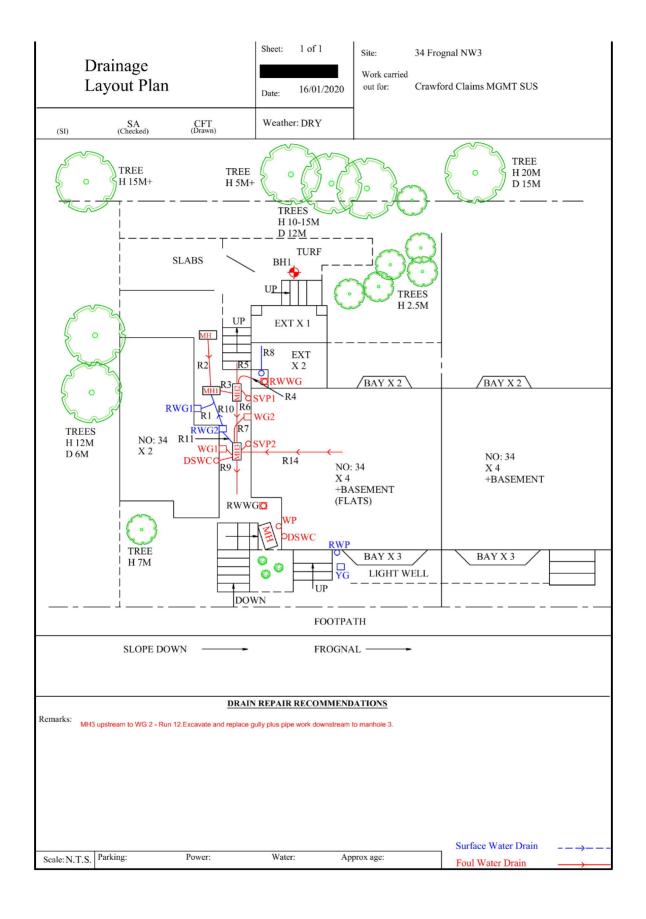












					le.	L	1 of 1	Cia-	34 Frognal	ı			
	Boreh	olo	1			heet:	1 of 1	Site:	34 FIOGIIAI	'			
	bulei	IOIE				ob No: late:	16/01/2020						
Boring N	Aethod:	Hand Auger				iround Level:	10/01/2020	Cliant	Crowford C	laine Ma	nagama		
Diamete		75	Weather:	Dry	lo.	rouna Levei:		Client:	Crawford C	Jaims ivia	nageme	int	
	r (mm):	/5	weather:	Soil Descrip	ntion						Com	mlas am	d Tooto
Depth				3011 Descrip	ption				Thickness	I		ples and	
(m)	MANDECE	OLIND I								Legend	Depth	Туре	Result
0.00		ROUND very le							0.10				
0.10				mid to dark brown s	silty sand	y clay with occ	asional gravei,		1.10				
	brick and	d clinker piece	es.							88888			
										88888			
										88888	0.50	DM	18
										88888			20
										88888			14
										88888			13
										88888			
										8888	1.00	DM	12
										XXXX			12
1.20				ned sandy silty CLAY	with part	tings of orange	and brown		0.60	××			18
	silt and f	ine sand and	very occasio	nal gravel.						××			19
										× — ×			
										××	1.50	DV	60
										×			66
										××			
1.80				sandy silty CLAY with	h parting	s of orange and	d brown		0.40	××			
	silt and f	ine sand and	very occasio	nal gravel.						××			
										××	2.00	DV	140+
										× — ×			140+
2.20	Very stiff	mid brown,	grey veined	sandy silty CLAY with	h parting	s of orange and	d brown		1.80	××			
	silt and f	ine sand.								××			
										×			
										××	2.50	DV	140+
										×x			140+
										××			
										××			
										×			
										××	3.00	DV	140+
										×			140+
										××			
										×			
										×			
										× ×	3.50	DV	140+
										×			140+
										X			
										××			
										×			
4.00				End of B	3H						4.00	DV	140+
													140+
Remarks	:						Key:					То	Max
		Vater seepage	at 3.0m. BH	open with standing wa	ater level		D - Disturbed Sa	mple				Depth	Dia
		ots observed b					B - Bulk Sample					(m)	(mm)
							W - Water Samp		Roots			1.20	6
							J - Jar Sample		Roots			2.70	2
							V - Pilcon Shear	Vane (kDa				3.00	1
							M - Mackintosh		Depth to W	Vater (m)		3.70	_
							TDTD - Too Den			· acer (III)		5.70	ı
.ogged:		AC	SA	Checked:	IΛ	pproved:		V1.0 28/0				N.T.S.	
oggeu:		ric .	JA	Glieckeu:	IA	pproved:	v CI SIUII	* 1.U ZO/U	1/10			14.1.3.	

## **Laboratory Summary Results**

16/01/2020 Flat 2, 34 Frognall, London Crawford Claims Management 17/01/2020 Date Tested : Date of Report : Client: Address: 17/01/2020 24/01/2020

TP/BH	ample Ref Depth	Туре	Moisture Content	Soil Fraction	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity *	Modified * Plasticity	Soil 9 Class	Filter Paper Contact	Soil Sample	Oedometer Strain	Estimated Heave	In situ * Shear Vane	Organic * Content	pH * Value	Sulphate		Class
No	(m)	. 950	(%) /1/	> 0,425mm	00000000	83805332	(0.00000000	0.0000000000000000000000000000000000000	Index (%)[6]	5200000	Time	Suction (kPa) [8]	[9]	Potential (Dd) (mm)[10]		1.0000000000000000000000000000000000000	/13/	503 [14]	so <sub>4</sub> [15]	[16]
BH1	0.5	D	21	28	49	20	29	0.05	21	CI	Nos ouiso	la fan ar	l otiona M	l ade Ground						
DILI					49	20	29	0.03	21	CI										l
	1.0	D	25	16							Not suita	ble for su	ctions - Ma	de Ground						
	1.5	D	32	<5							168	37.3			63					
	2.0	D	26	<5	55	21	34	0.14	34	СН	168	97.6			> 140					
	2.5	D	24	<5							168	88.2			> 140					
	3.0	D	21	<5							168	34.7			> 140					
	4.0	D	31	<5	52	20	32	0.33	32	СН	168	19.2			> 140					

Test Michinols / Nortes
1/4 88 1977 (Part 2, 1994), Test No 3.2
27 Estimated (1-5%), Gentralise mounted
(1/6 88 1977; Part 2) 1995, Test No 4.4
(4/6 88 1977; Part 2) 1996, Test No 4.5
(4/7 88 1977; Part 2) 1996, Test No 5.3
(4/7 88 1977; Part 2) 1996, Test No 5.4
(4/7 88 1976; Part 2) 1996
(7/7 18 5/90), 2018; Figure 8- Plendidy Churt for the chastification

[8] In-house method SRa adapted from IRE IP 4/9]
[9] In-house Test Procedure ST7s: One Dimensional Swell-Strain Tes
[10] Estimated Heave Potential (Dd)
[11] Values of shear strength were determined in situ by CET using.

a Pilco hand vane or Groon vane (GV),
[12] IS 1371: Part 3: 1996, Test No.4
[12] IS 1377: Part 3: 1996, Test No.4
[12] IS 1377: Part 3: 1996, Test No.9
[14] IS 1377: Part 3: 1996, Test No.5.6
[15] SO<sub>2</sub>=1,2 x SO<sub>2</sub>



Version: 5BH V1.6 - 26.02.19

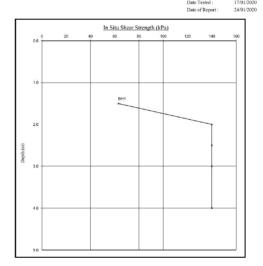
8618

#### Moisture Content Profiles

### Shear Strength Profiles

Our Ref:
Location: Flat 2, 34 Frognall, London

		Soil Moisture C	ontent (%)		
0.0	20	24	28	32	
1.0	BH1				
2.0					
(ii) Odup (iii)	<				
4.0				_	



Notes
1. If Pleaton, 0.4 LL and Pl = 2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated only) at hallow depths.
2. Unless specifically noted the profiles have not been related to a site chain.

Unless otherwise stated, values of Shear Strength were determined in situ.

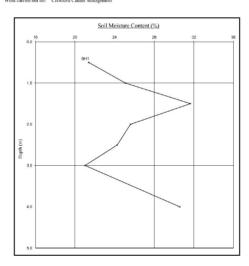
CET using a Pilcon Hand Vane the cultivation of which is limited to
a maximum reading of 140 kPa.

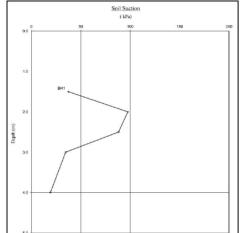
The state of the sta

### Moisture Content Profiles

### Soil Suction Profiles

Our Ref :
Location : Flat 2, 34 Frognall, London





Notes

I. If plotted, 0.4 LL and PF > 2 (after Driscoll, 1983) should only be applied to Lendon Clay (and similarly overconsolidated city) at hablow depths.

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

Note. When shows, the theoretical applification melons profiles are based on conventional consequence associated with Landon Clay time distallarly overcoordinated clays in Auditor-Geglia. Now that the sample distribution comparent is dependent on the makeful of comparing and any subsequent promparine. The device produce the device of the comparing and any subsequent promparine. The device produce this to be COAPs, which is the white suggested by the REF on the basis of white three devices of contract the comparine of the distance and plaquement beautiful the convenient of the contract of the contrac

EPSL
European Plant Science Laboratory

Date: 22/01/2020

Work carried out for: Crawford Claims MGMT SUS

#### 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 -

Trial pit/ Borehole <u>number</u>	Root diameter ( <u>mm</u> )	Tree, shrub or climber from which root originates	Result of starch test
BH1 (0-2m)	4 mm	Platanus spp. 2 roots	Positive
BH1 (0-2m)	2 mm	Tilia spp.	Positive
BH1 (2-3m)	1.5 mm	Platanus spp. 3 roots	Positive

Platanus spp. include London plane and Oriental plane. Tilia spp. are limes.

RJS

Head of Laboratory Services: M D Mitchell B.Sc. (Hons), M.Phil. Plant Anatomist: Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D Plant Anatomist: Dr R J Shaw B.Sc. (Hons), Ph.D Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D



	& COSTING SHEET - DOMESTIC DRAINAGE				
Site:-	34 Frognall				
Client :-	Crawford Claims Management				
		Re	commenda	ation	
	Description			2000000	
Rate Code	MH3 upstream to WG 2 - Run 12.	Unit	Qty		
TITLE	Gullies / Rest Bend / Rodding Eye - 110mm Isolated repair or connections to lined drains				
SN0590	Gully, 150mm x 150mm. Remove existing and replace with new PVCu item. Bed, surround and backfill.	nr	1		
TITLE	110mm Pipework - Isolated repair of lengths up to 1.0m				
SN0605	Excavate & remove isolated length. Replace in new 110mm PVCu. Bed, surround & backfill. n.e. 1000mm deep.	nr	1		
TITLE	110mm Pipe Replacement - Bends / Junctions / etc				
SN0880	Short Radius Bend. Remove existing item and replace with new 110mm PVCu.	nr	3		
TITLE	Extra-Over Surfacing Costs for drainage Repair / Replacement				
SN1045	Removal, set aside and reinstatement of concrete slab paving n.e 100mm thick.	m2	2		
TITLE	Preparations / General Groundworks / Reinstatements				
SN0025	Protection Temporary works to floors, 1000 gauge polythene.	m2	2		
SN2050005	Disposal by hand excavated contaminated/saturated material off site.	m3	2		
SN006	1 Litre of disinfectant.	nr	1		
	Total subject to VAT @ 20%				

Total subject to VAT @ 20%

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, so – extra over rate, m = linear metre, nr = number, hr = hour

				Sheet:		Site:	34 Frognall		
Co	ding S	Sheet							
						Client:	Crawford Claims Management		
Run:	1			_			_		
From:		М	H1	Invert Lev	rel:	380	Direction:	U/S	
To:		RW	/G1	Invert Lev	rel:		Function:	S/W	
Pipe Materi	al:	P۱	/C	Pipe Dia:		100			
Water/Pres	sure Tes	st:		Drain Bre	ak-In:	No	Gully Condition:	As Built	
Distance	Code	Clock	k Ref	Dia	Intro	usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.20	LR						Line deviates right	slabs	0.5
0.50	FH						reached RWG1		
Comments:									
Run:	2			1					
From:		М	COVERNO.	Invert Lev		450	Direction:	U/S	
To:		M		Invert Lev	rel:		Function:	F/W	
Pipe Materi	al:	P۱	/C	Pipe Dia:		100			
Water/Pres				Drain Bre	20,000 175.00	No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia		usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
2.50	МН						Manhole	slabs	2.5
2.50	FH						reached MH (unable to access)		
Comments:	<u> </u>								
Run:	3			1					
From:		М		Invert Lev		380	Direction:	U/S	
To:		М		Invert Lev	rel:	450	Function:	F/W	
Pipe Materi			C	Pipe Dia:		75			
Water/Pres				Drain Bre		No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia		usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.20	WL				20		Water level	slabs	0.4
0.30	DEG				20		Debris grease		
0.40	МН						MH2		
0.40	FH						reached MH2		
Comments:									

ı

Run:	4			7			7		
From:			H1	Invert Le	0.700	450	Direction:	U/S	
To:			NG1	Invert Le			Function:	Comb	
Pipe Mater			C	Pipe Dia:		100			
Water/Pres				Drain Bre		No	Gully Condition:	As Built	
Distance	Code	Cloc	k Ref	Dia		usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.10	LR						Line deviates right	Concrete	0.8
0.80	FH						reached RWWG1		
Comments	i i								
Run:	5			_			_		
From:		М	H1	Invert Le	vel:	450	Direction:	U/S	
To:		U	/S	Invert Le	vel:		Function:	F/W	
Pipe Mater	ial:	P۱	/C	Pipe Dia:		68			
Water/Pres	sure Te	st:		Drain Bre	ak-In:	No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia	Intro	usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.50	LU						Line deviates up	concrete	0.4
							unable to push further	steps	0.1
0.50	SA			1		1	unable to pasir fartifer	Istebs	
0.50 Comments:	0.500.00			1		1	unable to pasi rurulei	steps	
Comments:	0.500.00								
Comments:  Run: From:			Н1	Invert Le		450	Direction:	U/S	
Run: From: To:	6	SV	'P1	Invert Le	vel:				
Run: From: To: Pipe Mater	<b>6</b>	SV V		Invert Le	vel:	100	Direction: Function:	U/S	
Run: From: To: Pipe Mater Water/Pres	6 ial:	SV V st:	P1 C	Invert Le Pipe Dia: Drain Bre	vel: eak-In:	100 No	Direction: Function: Gully Condition:	U/S F/W	
Run: From: To: Pipe Mater Water/Pres Distance	<b>6</b>	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run:	U/S	
Run: From: To: Pipe Mater Water/Pres Distance (m)	ial: ssure Te	SV V st:	P1 C	Invert Le Pipe Dia: Drain Bre	vel: eak-In:	100 No	Direction: Function: Gully Condition: Shared Run: If Shared How:	U/S F/W	
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00	6 ial: ssure Te Code	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	U/S F/W No Surface Material	Length (m)
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10	ial: ssure Te Code ST LU	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up	U/S F/W	
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10 0.40	ial: ssure Te Code ST LU FH	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	U/S F/W No Surface Material	Length (m)
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10	ial: ssure Te Code ST LU FH	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up	U/S F/W No Surface Material	Length (m)
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10 0.40	ial: ssure Te Code ST LU FH	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up	U/S F/W No Surface Material	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments:	ial: ssure Te Code ST LU FH	SV V st: Cloc	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up	U/S F/W No Surface Material	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments:	ial: ssure Te Code ST LU FH	SV V st: Clock at	P1 C k Ref	Invert Le Pipe Dia: Drain Bre Dia	vel: eak-In: Intro %	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up	U/S F/W No Surface Material	Length (m)
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10 0.40 Comments:	ial: ssure Te Code ST LU FH	SV V st: Cloc at	P1 C k Ref to	Invert Le Pipe Dia: Drain Bre Dia mm	vel:  ak-In:  Intro  %	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1	U/S F/W No Surface Material slabs	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments: Run: From:	6 ial: ssure Te Code  ST LU FH	SV V st: Cloc at M	P1 CC k Ref to	Invert Le	vel:	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction:	U/S F/W No Surface Material slabs	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments  Run: From: To:	6  ial: ssure Te Code  ST LU FH	SV Vst: Cloc at M M Cast	P1 CC k Ref to	Invert Let Invert Let Invert Let Invert Let	vel:  eak-In:  Intro  %  vel:  vel:	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction:	U/S F/W No Surface Material slabs	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments:  Run: From: To: Pipe Mater	6  ial: ssure Te Code  ST LU FH	SV V st: Cloc at  M M Cast	P1 CC k Ref to	Invert Let Pipe Dia: Drain Bre Dia mm  Invert Let Invert Let Pipe Dia:	vel:  ak-In:  Intro  %  vel:  vel:  eak-In:	100 No usion mm 450	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction: Function:	U/S F/W No Surface Material slabs	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments:  Run: From: To: Pipe Mater Water/Pres Water/Pres Water/Pres	6  ssure Te Code  ST LU FH 7	SV V st: Cloc at  M M Cast	H2	Invert Let Pipe Dia: Drain Bre Dia mm  Invert Let Invert Let Pipe Dia: Drain Bre Dia Drain Bre	vel:  ak-In:  Intro  %  vel:  vel:  eak-In:	100 No usion mm 450	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction: Function: Gully Condition:	U/S F/W No Surface Material slabs D/S Comb	Length (m)
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 0.10 0.40 Comments:  Run: From: To: Pipe Mater Water/Pres Distance	6  ssure Te Code  ST LU FH 7	SV V st: Cloc at  M M Cast st: Cloc	P1 CC k Ref to H2 H3 Iron k Ref	Invert Let Pipe Dia: Drain Bre Dia mm  Invert Let Invert Let Pipe Dia: Drain Bre Dia	vel:  vel:  vel:  vel:  vel:  lak-In:	100 No usion mm 450 100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction: Function: Gully Condition: Shared Run:	U/S F/W No Surface Material slabs D/S Comb	Length (m) 0.4
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10 0.40 Comments:  Run: From: To: Pipe Mater Water/Pres Distance (m)	6  ST LU FH  7  Code	SV V st: Cloc at  M M Cast st: Cloc	P1 CC k Ref to H2 H3 Iron k Ref	Invert Let Pipe Dia: Drain Bre Dia mm  Invert Let Invert Let Pipe Dia: Drain Bre Dia	vel:  vel:  vel:  vel:  vel:  lak-In:	100 No usion mm 450 100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction: Function: Gully Condition: Shared Run: If Shared How:	No Surface Material slabs  D/S Comb	Length (m) 0.4
Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00 0.10 0.40 Comments:  Run: From: To: Pipe Mater Water/Pres Distance (m) 0.00	6 Code ST LU FH  7 Table: Code	SV V st: Cloc at  M M Cast st: Cloc	P1 CC k Ref to H2 H3 Iron k Ref	Invert Let Pipe Dia: Drain Bre Dia mm  Invert Let Invert Let Pipe Dia: Drain Bre Dia	vel:  vel:  vel:  vel:  vel:  lak-In:	100 No usion mm 450 100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks Line deviates up reached SVP1  Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	U/S F/W  No Surface Material slabs  D/S Comb  No Surface Material	Length (m) 0.4  Length (m)

	8			_			_		
From:		RW\	WG1	Invert Lev	rel:		Direction:	U/S	
To:		U	/S	Invert Lev	/el:		Function:	S/W	
Pipe Mater	ial:	P	√C	Pipe Dia:		100			
Water/Pre	ssure Te	st:		Drain Bre	ak-In:	No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia	Intri	usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m
0.40	DES				30		Debris silt	under extension	1
1.00	DES				100		Debris silt		
1.00	SA						unable to push further		
Comments	:					•	•	•	•
unsure wh	ere this	comes fi	rom, co	uld be dis-	used(run is	dry).			
Run:	9						_		
From:		М	H3	Invert Lev	/el:	700	Direction:	U/S	
To:		DS/	WC1	Invert Lev	/el:		Function:	F/W	
Pipe Mater	ial:	٧	'C	Pipe Dia:		100			
Water/Pre	ssure Te	st:		Drain Bre	ak-In:	No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia	Intro	usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m
0.00		6		100			backdrop	concrete	0.3
0.10	JN						Line deviates up		
0.00000000	JN								
0.10	****						reached DS/WC1		
0.10 0.70	LU FH						reached DS/WC1		
0.10 0.70 1.00	LU FH						reached DS/WC1		
0.10 0.70 1.00 Comments	LU FH						reached DS/WC1		
0.10 0.70 1.00 Comments	LU FH	М	H3	Invert Lev	rel:	700		U/S	
0.10 0.70 1.00 Comments Run: From:	LU FH	00000	H3 G1	Invert Lev		700	Direction:	U/S F/W	
0.10 0.70 1.00 Comments Run: From: To:	LU FH:	W	100.00	Invert Lev				U/S F/W	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater	LU FH :	W	G1	Invert Lev Pipe Dia:	vel:	100	Direction: Function:	F/W	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre:	LU FH:	W V st:	G1 'C	Invert Lev Pipe Dia: Drain Bre	vel: ak-In:	100 No	Direction: Function: Gully Condition:		
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: Distance	LU FH :	W V st: Cloc	G1 C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intri	100 No usion	Direction: Function: Gully Condition: Shared Run:	F/W	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre:	LU FH:	W V st:	G1 'C	Invert Lev Pipe Dia: Drain Bre	vel: ak-In:	100 No	Direction: Function: Gully Condition:	F/W	Length (m
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre: Distance (m)	LU FH :	W V st: Cloc	G1 C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intri	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How:	F/W As Built	Length (m
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre: Distance (m) 0.00	IU FH ::  10  rial: sssure Te Code  ST FH	W V st: Cloc	G1 C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intri	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	F/W  As Built  Surface Material	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: Distance (m) 0.00 0.10	IU FH ::  10  rial: sssure Te Code  ST FH	W V st: Cloc	G1 C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intri	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	F/W  As Built  Surface Material	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: Distance (m) 0.00 0.10	IU FH ::  10  rial: sssure Te Code  ST FH	W V st: Cloc at	G1 CC k Ref to	Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intri	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	F/W  As Built  Surface Material slabs	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre: (m) 0.00 0.10 Comments  Run: From:	tU FH:  10  rial: ssure Te Code  ST FH:	W V St: Cloc at	G1 rC k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intro %	100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	F/W  As Built  Surface Material slabs	Length (m
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre: Distance (m) 0.00 0.10 Comments  Run:	tU FH:  10  rial: ssure Te Code  ST FH:	W V St: Cloc at	G1 CC k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intro %	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1	F/W  As Built  Surface Material slabs	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater Water/Pre: (m) 0.00 0.10 Comments  Run: From:	LU FH ::  10  Code  ST FH ::	W V st: Cloc at  M RW	G1 rC k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intro %	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1	F/W  As Built  Surface Material slabs	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: (m) 0.00 0.10 Comments  Run: From: To:	LU FH ::  10  Code  ST FH ::  11	W V st: Cloc at  M RW	G1 FC k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm  Invert Lev Invert Lev	rel: ak-in: Intru %	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1	F/W  As Built  Surface Material slabs	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: (m) 0.00 0.10 Comments  Run: From: To: Pipe Mater	LU FH ::  10  Code  ST FH ::  11	W V St: Cloc at  M RW V V St:	G1 FC k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm  Invert Lev Invert Lev Pipe Dia:	rel: ak-In: Intru %  rel: rel: rel:	100 No usion mm	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1  Direction: Function:	Surface Material slabs  U/S S/W	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: Distance (m) 0.00 0.10 Comments  Run: From: To: Pipe Mater/Pre: Distance (m)	LU FH : : : : : : : : : : : : : : : : : : :	W V St: Cloc at  M RW V V St:	G1 CC k Ref to H3 CG2	Invert Lev Pipe Dia: Drain Bre Dia mm  Invert Lev Invert Lev Pipe Dia: Drain Bre	rel: ak-In: Intru %  rel: rel: rel:	100 No usion mm 700 100 No	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1  Direction: Function: Gully Condition:	Surface Material slabs  U/S S/W  As Built	
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: Distance (m) 0.00 0.10 Comments  Run: From: To: Pipe Mater/Pre: Distance Distance	LU FH : : : : : : : : : : : : : : : : : : :	W V st: Cloc at  M RW V st: Cloc	G1 CC k Ref to H3 //G2 CC	Invert Lev Pipe Dia: Drain Bre Dia mm  Invert Lev Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intro % rel: rel: ak-In: Intro Intro	100 No usion mm  700 100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1  Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks	Surface Material slabs  U/S S/W  As Built	0.1
0.10 0.70 1.00 Comments  Run: From: To: Pipe Mater/Pre: Distance (m) 0.00 0.10 Comments  Run: From: To: Pipe Mater/Pre: Distance (m)	LU FH  ::  10  Code  ST FH ::  11  Code  Code	W V st: Cloc at  M RW V st: Cloc	G1 CC k Ref to H3 //G2 CC	Invert Lev Pipe Dia: Drain Bre Dia mm  Invert Lev Invert Lev Pipe Dia: Drain Bre Dia	rel: ak-In: Intro % rel: rel: ak-In: Intro Intro	100 No usion mm  700 100 No usion	Direction: Function: Gully Condition: Shared Run: If Shared How: Remarks reached WG1  Direction: Function: Gully Condition: Shared Run: If Shared How:	Surface Material slabs  U/S S/W  As Built	

Run:	12								
From:	12	М	H3	Invert Lev	ωl·	700	Direction:	U/S	
To:	-		G2	Invert Lev		700	Function:	F/W	
			'C	-	/ei:	100	-Function:	F/ VV	
Pipe Materi				Pipe Dia:	. 1 6	100	C II C . I''		
Water/Pres			l. D - f	Drain Bre		No	Gully Condition:	No	
Distance	Code		k Ref	Dia		usion	Shared Run:	NO	
(m)		at	to	mm	%	mm	If Shared How:		I
0.00	ST						Remarks	Surface Material	Length (n
0.10	LR						slight	slabs	1
0.60	JDM						Joint displaced medium		
0.90	JDL						Joint displaced large		
1.00	FH						reached WG2		
Comments:									
Run:	13					_			
From:			Н3	Invert Lev	/el:	700	Direction:	U/S	
То:		SV	'P2	Invert Lev	vel:		Function:	F/W	
Pipe Materi	al:	V	'C	Pipe Dia:		100			
Water/Pres	sure Tes	st:		Drain Bre	ak-In:	No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia	Intr	usion	Shared Run:	No	
(m)		at	to	mm	%	mm	If Shared How:		
0.00	ST						Remarks	Surface Material	Length (r
0.10	LU						Line deviates up	slabs	0.3
	FH						reached SVP1		
	14								
Comments:  Run: From: To:			H3 /S	Invert Lev		700	Direction: Function:	U/S F/W	
Comments:  Run: From: To:	14	U,		-		700			
Comments:  Run: From:	<b>14</b>	U, V	/S	Invert Lev	vel:				
Run: From: To: Pipe Materi	<b>14</b>	U, V st:	/S	Invert Lev Pipe Dia:	vel: ak-In:	100	Function:		
Run: From: To: Pipe Materi Water/Pres	14 al: sure Tes	U, V st:	/s rc	Invert Lev Pipe Dia: Drain Bre	vel: ak-In:	100 No	Function: Gully Condition:	F/W	
Run: From: To: Pipe Materi Water/Pres Distance	14 al: sure Tes	U, V st: Clock	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intri	100 No usion	Function: Gully Condition: Shared Run:	F/W	Length (n
Run: From: To: Pipe Materi Water/Pres Distance (m)	14  al: sure Tes	U, V st: Clock	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intri	100 No usion	Function: Gully Condition: Shared Run: If Shared How:	F/W	Length (r
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00	14 lal: sure Tes Code	U, V st: Clock	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intri %	100 No usion	Gully Condition: Shared Run: If Shared How: Remarks	F/W No Surface Material	
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30	al: sure Tes Code ST WL	U, V st: Clock at	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intri %	100 No usion	Gully Condition: Shared Run: If Shared How: Remarks Water level	F/W No Surface Material slabs	0.1
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 1.30 6.20	al: sure Tes Code ST WL JN	U, V st: Clock at	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intri %	100 No usion	Function:  Gully Condition: Shared Run: If Shared How: Remarks Water level unknown	F/W No Surface Material slabs	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50	al: sure Tes Code ST WL JN LR	U, V st: Clock at	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intri %	100 No usion	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right	F/W No Surface Material slabs	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80	al: sure Tes Code ST WL JN LR LU FH	U, V st: Clock at	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intri %	100 No usion	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right Line deviates up	F/W No Surface Material slabs	0.1
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:	al: sure Tes Code ST WL JN LR LU FH	U, V st: Clock at	/S 'C k Ref	Invert Lev Pipe Dia: Drain Bre Dia mm	vel: ak-In: Intri %	100 No usion	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right Line deviates up	F/W No Surface Material slabs	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:	al: sure Tes Code ST WL JN LR LU FH	U, V st: Clock at	/S /C k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm 100	vel: ak-In: Intri % 5	100 No usion mm	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right Line deviates up reached unknown	No  Surface Material slabs under building	0.1
Run: From: To: Pipe Mater/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:	al: sure Tes Code ST WL JN LR LU FH	U, V V St: Clock at 3	/S /C k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm  100	vel:  ak-In:  Intri  5  5  vel:	100 No usion	Function:  Gully Condition: Shared Run: If Shared How:  Remarks Water level unknown Line deviates right Line deviates up reached unknown  Direction:	No  Surface Material slabs under building	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: To:	14 sure Tess Code ST WL JN LR LU FH	U, V V St: Clock at 3	/S /C k Ref to  H3 /S	Invert Lev Pipe Dia: Drain Bre Dia mm  100	vel:  ak-In:  Intri  5  5  vel:	100 No usion mm	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right Line deviates up reached unknown	No  Surface Material slabs under building	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: To: Pipe Materi	14 aal: Esure Tess Code ST WL JN LR LU FH	U, V V St: Clock at 3	/S /C k Ref to	Invert Lev Pipe Dia: Drain Bre Dia mm  100  Invert Lev Invert Lev Pipe Dia:	vel:  ak-in:  Intri %  5  vel:  vel:	100 No usion mm 700 100	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right Line deviates up reached unknown  Direction: Function:	No  Surface Material slabs under building	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: To: Pipe Materi Water/Pres Water/Pres	14  Surre Test Code  ST WL JN LR LU FH  15	U, V V Clock at 3 3 MM D, D, V V V V V V V V V V V V V V V V V	H3 //S	Invert Lev Pipe Dia: Drain Bre Dia mm  100  Invert Lev Invert Lev Pipe Dia: Drain Bre	zel: ak-in: Intri % 5 zel: zel: zel: ak-in:	100 No usion mm 700 100 No	Function:  Gully Condition:  Shared Run: If Shared How:  Remarks  Water level unknown Line deviates right Line deviates up reached unknown  Direction: Function: Gully Condition:	F/W  No  Surface Material slabs under building  D/S  Comb	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: To: Pipe Materi Water/Pres Distance	14 aal: Esure Tess Code ST WL JN LR LU FH	U, V V Clock at 3 3 M M D, V V Clock	/S /C k Ref to  H3 /S	Invert Lev Pipe Dia: Drain Bre Dia mm  100  Invert Lev Invert Lev Pipe Dia: Drain Bre Dia	zel: ak-in: Intri % 5 vel: zel: ak-in: Intri	100 No usion mm  700 100 No	Gully Condition: Shared Run: If Shared How: Remarks Water level unknown Line deviates right Line deviates up reached unknown  Direction: Function: Gully Condition: Shared Run:	No  Surface Material slabs under building	0.1
Run: From: From: Fo: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: Fo: Pipe Materi Water/Pres Distance (m)	14  Surre Tes  Code  ST  WL  JN  LR  LU  FH  15  code	U, V V Clock at 3 3 MM D, D, V V V V V V V V V V V V V V V V V	H3 //S	Invert Lev Pipe Dia: Drain Bre Dia mm  100  Invert Lev Invert Lev Pipe Dia: Drain Bre	zel: ak-in: Intri % 5 zel: zel: zel: ak-in:	100 No usion mm 700 100 No	Gully Condition: Shared Run: If Shared How:  Remarks Water level unknown Line deviates right Line deviates up reached unknown  Direction: Function: Gully Condition: Shared Run: If Shared How:	No Surface Material slabs under building  D/S Comb	0.1
Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: To: Pipe Materi Water/Pres Distance (m) 0.00	14  Ial: Surre Tes  Code  ST WL JN LR LU FH  15  Code	U, V V Clock at 3 3 M M D, V V Clock	H3 K Ref	Invert Lev Pipe Dia: Drain Bre Dia mm  100  Invert Lev Invert Lev Pipe Dia: Drain Bre Dia	zel: ak-in: Intri % 5 vel: zel: ak-in: Intri	100 No usion mm  700 100 No	Gully Condition: Shared Run: If Shared How:  Remarks Water level unknown Line deviates right Line deviates up reached unknown  Direction: Function: Gully Condition: Shared Run: If Shared How:  Remarks	No Surface Material slabs under building  D/S Comb	0.1
Run: From: Fo: Pipe Materi Water/Pres Distance (m) 0.00 1.30 6.20 7.50 7.80 7.80 Comments:  Run: From: Fo: Pipe Materi Water/Pres Distance (m)	14  Surre Tes  Code  ST  WL  JN  LR  LU  FH  15  code	U, V V Clock at 3 3 M M D, V V Clock	H3 K Ref	Invert Lev Pipe Dia: Drain Bre Dia mm  100  Invert Lev Invert Lev Pipe Dia: Drain Bre Dia	zel: ak-in: Intri % 5 vel: zel: ak-in: Intri	100 No usion mm  700 100 No	Gully Condition: Shared Run: If Shared How:  Remarks Water level unknown Line deviates right Line deviates up reached unknown  Direction: Function: Gully Condition: Shared Run: If Shared How:	No Surface Material slabs under building  D/S Comb	0.1

