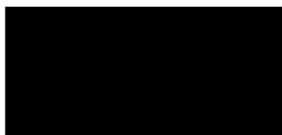


Site Investigation Report



Job Information	
Client	Sedgwick
Client ref	
Visit date	10/07/2019
Report date	10/07/2019

Job Summary	
✓	CCTV survey undertaken. Read more.
!	Drainage repairs required. Read more.
⚠	1 trial hole undertaken. Read more.
✓	Requested soil samples taken. Read more.
✓	Requested root samples taken. Read more.



Job Information

Overview

Brief

Auger were commissioned by Sedgwick to undertake a site investigation and CCTV inspection of the underground drainage within the area of concern at the property.

Findings

Visual Inspection

A visual inspection of the site revealed that FWG1 (which was noted to serve foul waste) has broken / cracked.

We carried out dye testing to 1 line which revealed that there was no escape of water from the below ground drainage system.

Drain Survey

Line 1 - From MH1 upstream to FWG1

Our CCTV survey revealed joint displacements which could be allowing an escape of water.

Line 2 - From MH1 upstream to WC

There were no defects noted within the line which could be allowing an escape of water. The line was seen to be free flowing and serviceable.

Line 3 - From MH1 upstream to SVP

There were no defects noted within the line which could be allowing an escape of water. The line was seen to be free flowing and serviceable.

Line 4 - From MH1 downstream to MH2

There were no defects noted within the line which could be allowing an escape of water. The line was seen to be free flowing and serviceable.

Line 5 - From MH2 upstream to RWG1

Our CCTV survey revealed joint displacements which could be allowing an escape of water.

Line 6 - From FWG2 downstream to line 1

There were no defects noted within the line which could be allowing an escape of water. The line was seen to be free flowing and serviceable.

Addendum (29/08/2019)

Please note that we were unable to complete trial hole 2 (internal) on our first visit (10/07/2019) as the enabling works had not been fully completed by the customer's contractor.

We returned to site on 07/08/2019 and completed trial hole 2 once the enabling works had been completed.

Recommendations	
Repairs to be Completed	<p>It is recommended that the following repairs are carried out to prevent an escape of water from the system:</p> <p>On line 1, excavate and replace FWG1 and 1m of 100 mm pipework at a depth no greater than 1m through concrete. The above ground drainage will need to be extended 75mm below the gully grate.</p> <p>On line 5, install 3m of 100 mm flexi-liner directly upstream of MH2.</p>
Repair Caveats	<p><i>Once repairs have been undertaken the customer should ensure the drainage system is periodically inspected in the future for any deterioration and kept free flowing / free of blockages. Any damage noted during future inspections should be repaired immediately in accordance with current Building Regulations.</i></p> <p><i>With any repair process, complications and unforeseen circumstances can arise. These scenarios will be reported whilst on-site and could potentially cause an increase in repair costs and inconvenience.</i></p> <p><i>Where any excavation reinstatement of the surface is required, the reinstatement will always attempt to match the previous surface patterns and colouring, however we cannot guarantee an exact match.</i></p> <p><i>If any of the above lining recommendations fail then excavation and replacement of the pipework would be required. This would severely increase the cost of repairs and would provide greater inconvenience to the residents.</i></p> <p><i>The above recommendations allow for the replacement of gullies & connected underground drainage only. The insured should be made aware that the aesthetic appearance of this gully may be different from what is currently in place. We will alter the above ground drainage to extend 75mm below the gully grate. ·</i></p> <p><i>The insured should be informed that the proposed installation to renew the gully will not be a like for like replacement as the current gully has a raise surround/shield preventing splashing of the downpipe onto the surrounding area. The raised gully surround will be removed and a new plastic gully installed. A costing has been included in the quotation to rebuild the surround however the aesthetic appearance of this may be completely different from what is currently in place. ·</i></p> <p><i>Auger have not allowed or will not be held responsible for any alteration or modification to the above ground drainage following the removal of the existing gully and reinstatement of a new gully. The customer must ensure that the above ground drainage correctly expels into the gully pot and avoids overcrowding the gully with numerous downpipes which could lead to the gully overflowing.</i></p> <p><i>All above recommendations are in assumption that there is clear access to excavate without any issues arising such as gas or electric mains in the area of the recommended repairs. If during the excavation of these lines, issues such as gas or electric mains do arise, extra costs will be incurred if a third party is required to attend or alterations to the recommendations are required. ·</i></p> <p><i>Where any excavation reinstatement of the surface is required, the reinstatement will always attempt to match the previous surface patterns and colouring, however we cannot guarantee an exact match.</i></p>

Photographs

Trial Holes	
Fig 1.1: Trial Hole 1 Location	Fig 1.2: Trial Hole 1 Footing



Fig 1.3: Trial Hole 2 Location - no enabling works carried out

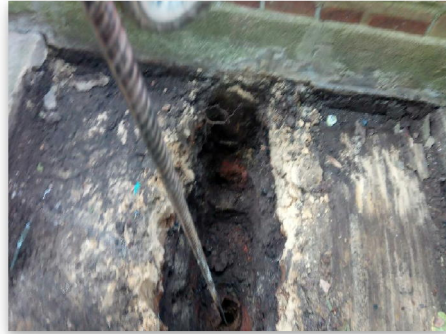


Fig 1.4: Internal cracking



Fig 1.5: Internal cracking



Fig 1.6: Internal cracking

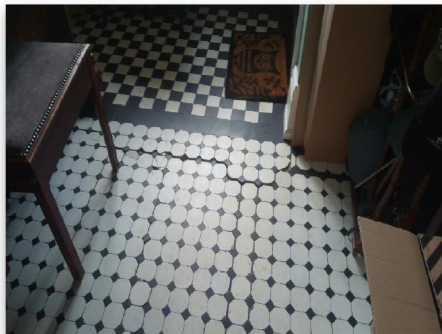


Fig 1.7: Trial Hole 2 Location (enabling works completed)

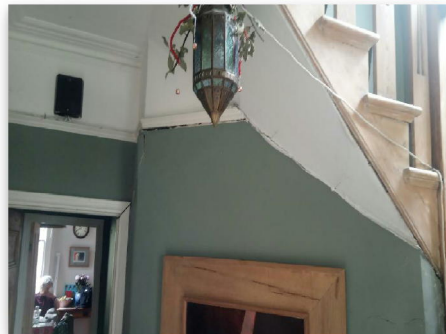
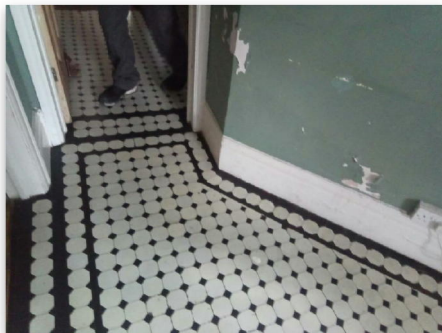


Fig 1.8: Trial Hole 2 Footing



Other Photos

Fig 7.1: CCTV access point



Fig 7.2: FWG1

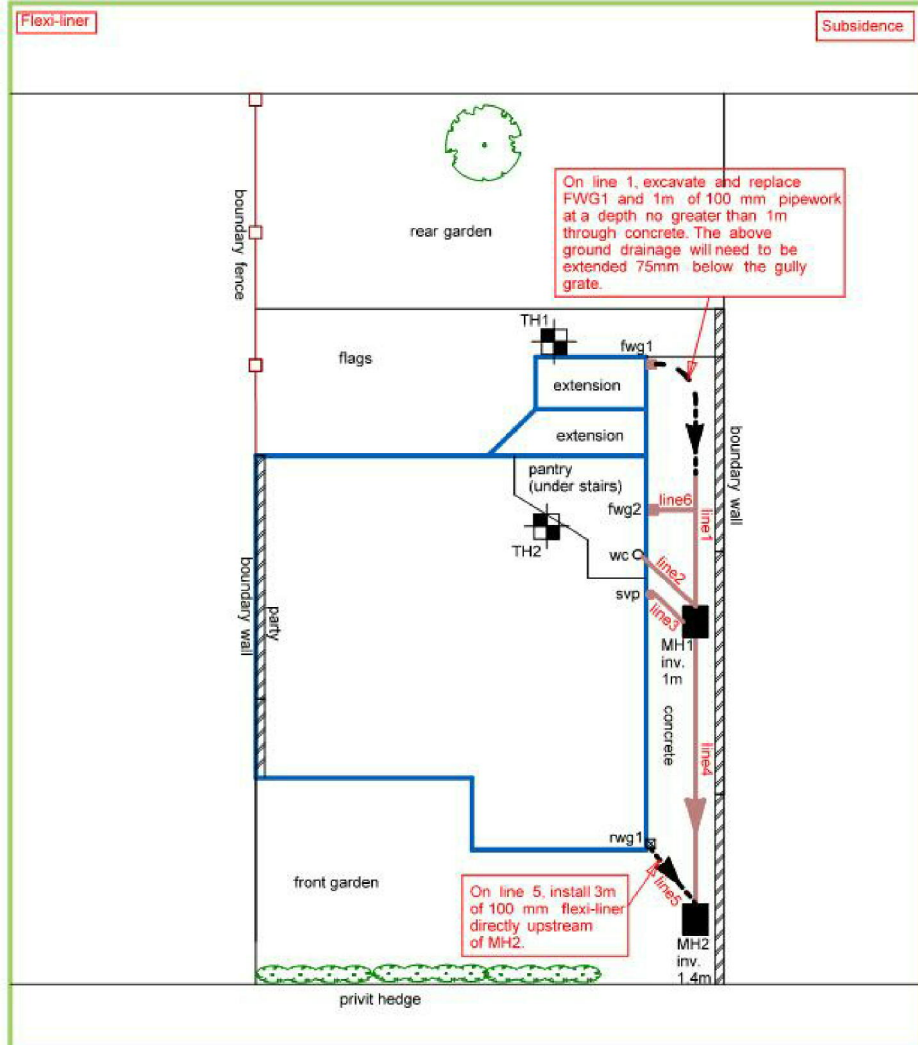


Fig 7.3: RWG2













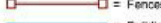






Fig 7.4: RWP1





FRONT OF PROPERTY

This drawing should be used for diagrammatic purposes only. Auger are not responsible or liable for any 3rd party works undertaken using the details outlined in this drawing. Confirmation of the drainage configuration can only be confirmed by excavation or detailed technical survey.

LEGEND	X = Blockage	--- = Lines not camera surveyed	 = Steps	 = Trial hole	 = Shrubs/bush
 = Manhole	 = svp/w/c	--- = Lines camera surveyed	 = Assumed water mains feed	 = Borehole	 = Hedge
 = Inspection Chamber	 = wg/fwg	--- = Walls	 = Fences	 = Direction of flow	 = Tree
 = Inspection Pot	 = nwg	--- = Building Outline	 = gate / door		
	 = nwp				



Trial Hole Log No.1

Date Drawn: 10/07/2019

Location: Rear wall of
rearmost extension

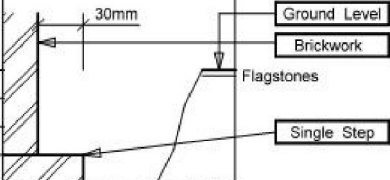
Depth (m)	Symbolic Log	Strata Description	Insitu Tests	Soil Sample	Root Sample
			Type: SV(19)		
0.0		Ground Level			
		Flagstones			
		Brickwork			
		Concrete			
0.5		Moist Very Stiff Brown fine gravelly silty CLAY	120kpa	@ Soil 0.7m	@ Root 0.7m
1.0		Moist Very Stiff Brown silty CLAY	120kpa	@ Soil 1.2m	
1.5		Moist Very Stiff Brown silty CLAY	120kpa	@ Soil 1.7m	
2.0		Moist Very Stiff Brown silty CLAY	120kpa	@ Soil 2.2m	
2.5		Moist Very Stiff Brown silty CLAY	120kpa	@ Soil 2.7m	
3.0		TRIAL HOLE TERMINATED	120kpa		

Key:
Moist=Normal wetting condition of subsoil MP=Mackintosh Probe (Blows per 100mm) SV(1)=Shear Vane (19mm or 33mm)



Trial Hole Log No.2

Location: Internal on the party wall between the hallway and pantry

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level Brickwork Flagstones Single Step				
0.5		Dry stiff brown sandy fine to medium gravelly silty CLAY	44kpa		Soil @ 0.4m	Root @ 0.4m
1.0			52kpa		Soil @ 0.9m	Root @ 0.9m
1.5		Moist stiff brown fine to medium gravelly silty CLAY	58kpa		Soil @ 1.4m	
2.0			58kpa		Soil @ 1.9m	
2.5			62kpa		Soil @ 2.4m	
3.0		TRIAL HOLE TERMINATED	62kpa			