

DRAIN

SMART

THE COMPLETE DRAINAGE SERVICE • CCTV CAMERA SURVEYS • STRUCTURAL SOFT FELT LINING
REPAIRS WITHOUT EXCAVATIONS • REFORMING OF PITCH FIBRE PIPES

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SAMPLE REPORT

CCTV CAMERA INSPECTION REPORT

Site Location – Sample Report

Commence survey from Manhole A upstream. 150mm earthenware pipework. Duty foul water system.

<u>Distance (m)</u>	<u>Observations & Remarks</u>
0.0	Joint
0.3	Joint and root penetration
0.9	Joint
1.5	Joint
1.8	Multiple fracturing
2.2	Joint
2.8	Joint
3.4	Joint and circumferential fracture
4.1	Offset Joint
4.7	Joint
5.3	Offset Joint
6.0	Joint
6.6	Joint and circumferential fracture
7.2	Offset Joint
7.8	Offset Joint
8.5	Joint
9.1	Offset Joint and root penetration
9.7	Joint and root penetration
10.4	Offset Joint and root penetration
10.6	Multiple fracturing and root penetration
10.9	Concealed Manhole

Continue survey from Concealed Manhole upstream. 100mm earthenware pipework. Duty foul water system.

0.0	Joint and debris build up
0.3	Joint, circumferential fracture, debris deposits and slight bend to the right
0.9	Joint
1.3	Offset Joint



2.0 Joint, debris build up and possible root penetration which the camera could not pass. Run is approximately 5.0m to waste gully

Continue survey from Manhole A up branch connection 4. 100mm earthenware pipework. Duty foul water system.

0.0	Joint and root penetration
0.2	Circumferential fracture, radial fracture and root penetration
0.5	Offset Joint
1.1	Joint and root penetration
1.7	Offset Joint
2.0	Circumferential fracture
2.3	Offset Joint
3.0	Joint and longitudinal fracture
3.7	Joint
3.9	Joint and change of pipework material to 110mm PVC-u
4.4	Joint and slight bend to the right
5.0	Joint and 90° bend upwards
5.6	Joint
5.8	Outlet of ground floor WC

Continue survey from Manhole A up branch connection 3. 100mm earthenware pipework. Duty foul water system.

0.0	Joint
0.3	Circumferential fracture and root penetration
0.4	Joint
1.0	Joint, radial fracture and root penetration
1.7	Offset Joint
2.0	Circumferential fracture and root penetration
2.3	Offset Joint
3.0	Offset Joint, radial fracture and longitudinal fracture
3.7	Offset Joint
4.4	Joint, root penetration and 90° bend upwards
4.9	Joint and outlet of cast iron soil and vent pipe

Continue survey from Manhole A up branch connection 2. 100mm earthenware pipework. Duty foul water system.

0.0	Joint
0.4	Joint and root penetration
1.1	Offset Joint and root penetration
1.9	Offset Joint and root penetration
2.4	Joint, root penetration and debris deposits
3.0	Joint, root penetration and debris deposits
3.1	Outlet of bath and basin/kitchen sink waste gully

Continue survey from Manhole A up branch connection 1. 100mm earthenware pipework. Duty foul water system.

0.0	Joint
0.3	Offset Joint and radial fracture

1.0	Joint and debris deposits
1.7	Joint and debris deposits
2.3	Joint, debris deposits and circumferential fracture
3.0	Joint
3.6	Joint and root penetration
4.3	Joint and debris deposits
4.9	Joint and debris deposits
5.5	Joint and debris deposits
6.2	Joint and debris deposits
6.6	Offset Joint
6.9	Offset Joint and slight bend to the left
7.4	Heavy debris deposits which the camera could not pass. Run is approximately 8.0m in total to kitchen sink waste gully

Continue survey from Manhole A downstream. 150mm earthenware pipework. Duty foul water system.

0.0	Joint and water holding in pipework until 2.8m
0.2	Offset Joint and root penetration
0.7	Joint
1.3	Joint
1.8	Camera underwater preventing full view of pipework until 2.8m
2.8	Heavy debris deposits
3.5	Joint
4.1	Joint
4.4	Manhole in neighbouring property (boundary passed at approximately 3.0m)

END OF SURVEY

Please Note

It would appear that the rain/surface water pipes serving the property do not enter the foul water drainage system and therefore probably discharge into one or more soakaways located generally 3.0m-5.0m from the building.

Unfortunately no direct access was available to either the soakaway or the underground pipework, preventing an inspection. These runs have therefore not been surveyed and their condition is obviously not known at this time.

Should it be deemed necessary, and various professions seem to have different views on this, that these runs require investigation then excavations would be needed, at a further cost.

Conclusions & Recommendations

It was apparent from the CCTV camera inspection that the foul water drainage system is not in a satisfactory structural condition having root damage and fracturing throughout. The system discharges into a manhole in the neighbouring property where the survey was terminated.

The root damaged sections are allowing the escape of water which could eventually affect the stability of the building.

Our recommendations are therefore as follows –

- 1) To carry out mechanical root cutting of all affected runs to remove root growth.
- 2) To carry out high pressure water jetting of all pipework to remove cut roots and debris deposits etc, leaving pipework clear and free flowing.
- 3) To utilise electronic tracing equipment to locate the concealed manhole at 10.9m upstream of Manhole A and excavate to expose the cover. To raise the cover for access to the pipework.
- 4) To carry out structural soft felt lining from Manhole A to concealed manhole to seal pipework to a watertight condition.
- 5) To carry out structural soft felt lining from concealed manhole upstream to waste gully to seal pipework to a watertight condition.
- 6) To carry out structural soft felt lining of initial 4.0m up branch connection 4 in Manhole A towards ground floor WC to seal pipework to a watertight condition.
- 7) To excavate at base of soil and vent pipe (branch connection 3 in Manhole A) and replace defective rest bend. Whilst pipework is open to carry out structural soft felt lining downstream to Manhole A to seal pipework to a watertight condition.
- 8) To carry out structural soft felt lining from Manhole A up branch connection 2 to outlet of bath and basin/kitchen sink waste gully to seal pipework to a watertight condition.
- 9) To carry out structural soft felt lining of initial 4.0m up branch connection 1 in Manhole A towards kitchen sink waste gully to seal pipework to a watertight condition.
- 10) To carry out structural soft felt lining from Manhole A downstream to manhole in Number 1, to seal pipework to a watertight condition.
- 11) To backfill all excavations in compacted layers and to reinstate, where possible, all surfaces to match existing.
- 12) To remove all excess spoil and materials from site and leave clean and tidy.

We would be pleased to carry out the above works for the sum of £2,905.00 plus VAT and we look forward to receiving your further instructions.

Please Note – all repair works carried out are covered by our 15 year guarantee against faulty workmanship and materials on repaired sections.

We do hope that the above meets with your approval but should you have any queries please do not hesitate to contact us.

PLEASE NOTE: THE MEASUREMENTS IN OUR REPORTS OR ON OUR RECORDINGS ARE TO BE USED AS A GUIDE LINE ONLY.