

Environmental Services Ltd

24 HOUR EMERGENCY SERVICE

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COLOUR C.C. TV SURVEYS

EXCAVATION LINING SPECIALIST

CENTRAL HEATING POWER FLUSHING

www.drainrod.co.uk

TKG/C/01091/sb

PLUMBING

CENTRAL HEATING

GUTTER CLEARANCE

DRAIN TRACING

GULLY GULPING SERVICE

28th January 2015

Ben Frazier 17 Waddon Gardens Primrose Hill NW3 3DN

Dear Mr Frazier,

METRES

RE: 17 Waddon Gardens, Primrose Hill, NW3

With reference to the C.C.TV Camera Survey carried out at the above property, we have pleasure in submitting the following report, video and diagram.

CAMERA SURVEYED FROM MANHOLE 1 UPSTREAM (100MM)

METRES	THIDINGS
000.5	Radial Cracking
000.9	Offset Joint
	Radial Cracking
001.0	Line deviates sharp right
001.2	Offset Joint-Severe
	Ingress via joint/scale
	Unable to pass bend

FINDINGS

CAMERA SURVEYED FROM MANHOLE 1 SLIPPER 1 UPSTREAM (100MM)

METRES FINDINGS

000.4	Offset Joint
8.000	Offset Joint
001.4	Offset Joint-Severe
001.4	Unable to pass offset













CAMERA SURVEYED FROM MANHOLE 1 SLIPPER 2 UPSTREAM (100MM)

METRES FINDINGS

000.3 Inset Branch 12 o/c 001.3 Ingress via joint 001.8 Debris in run

Silt

002.2 Ingress via joint/unable to pass

002.5 Trap to Gully

CAMERA SURVEYED FROM MANHOLE 1 DOWNSTREAM (100MM)

METRES FINDINGS

001.3 Radial Crack 002.0 Radial Crack 002.4 Offset Joint-Slight

003.4 Offset Joint

Radial Crack

006.3 Offset Joint Radial Crack

006.6 Long Crack

008.4 Ingress via joint

Scale

009.2 Enters Manhole 2

CAMERA SURVEYED FROM MANHOLE 2 SLIPPER 1 UPSTREAM (100MM)

METRES FINDINGS

000.4 Offset Joint 003.1 Offset Joint

003.5 Enters bend-Unable to pass

CAMERA SURVEYED FROM MANHOLE 2 SLIPPER 2 UPSTREAM (100MM)

METRES FINDINGS

002.8 Enters bend to SVP

CAMERA SURVEYED FROM MANHOLE 2 SLIPPER 3 UPSTREAM (100MM)

METRES FINDINGS

000.8 Unable to pass bend

Scale

CAMERA SURVEYED FROM MANHOLE 2 SLIPPER 4 UPSTREAM (100MM)

METRES FINDINGS

000.5 Scale-Heavy 000.6 Partial blockage

Unable to pass

CAMERA SURVEYED FROM MANHOLE 2 DOWNSTREAM (150MM)

METRES FINDINGS 000.5 Scale 002.0 Holding Water-Slight Debris in run 002.9 Ingress via joint 004.9 Offset Joint 005.4 Offset Joint 006.4 Holding Water Ingress via joint 008.6 Holding Water Scale 009.5 Holding Water 010.6 Enters Manhole 3 Roots

CAMERA SURVEYED FROM MANHOLE 3 SLIPPER 1 UPSTREAM (100MM)

METRES FINDINGS

000.8 Unable to pass reel

CAMERA SURVEYED FROM MANHOLE 3 SLIPPER 2 UPSTREAM (100MM)

METRES	FINDINGS
005.5	Radial Crack-Slight
006.4	Radial Crack-Slight
007.6	Radial Crack
008.2	Radial Crack
	Roots
8.800	Roots
0.010	Ingress via joint-Unable to pass

END OF SURVEY

FINDINGS

The system surveyed is predominantly of clayware construction and has evidence of numerous structural defects throughout.

These defects consist of radial cracking, root ingress, joint movement and solidified scale build up exists.

The system is functioning, however some of the defects are becoming pronounced and we believe that problems may start to be experienced.

The system is deep and access to the manholes is limited due to their depths, they will require confined space operatives to allow entry.

If major works are being undertaken we would recommend that as much of the drainage as possible is renewed at the same time and if possible re-designed.

Clearly remedial works are required.

RECOMMENDATIONS

Manhole 1 upstream

Manhole 1 slipper 1

Manhole 1 slipper 2

Manhole 2 slipper 1

Manhole 3 slipper 1

These runs all have joint movement and may result in water loss from the system. Each run should be individually water tested to confirm its integrity, failure of a water test would necessitate excavation and renewal of the run.

Manhole 2 to slipper 4

Manhole 3 to slipper 2

Manhole 1 to Manhole 2

These manholes are deep and will require confined space entry equipment and personnel to carry out these works.

Each of these runs have blockages or build up within the runs, they should be cleansed and cleared of debris with specialist cable cutters and high pressure descaling equipment.

Once cleansed they should be re-surveyed in full to assess their full structural condition.

These runs are likely to require structural repairs, it maybe possible to do this without excavation dependant upon the findings.

ESTIMATED COST

- Manhole 1 upstream
 - Manhole 1 slipper 1
 - Manhole 1 slipper 2
 - Manhole 2 slipper 1
 - Manhole 3 slipper 1

Individually water test and report.

- Cost £95 + VAT per test
- 2. Manhole 2 to slipper 4
 - Manhole 3 to slipper 2
 - Manhole 1 to Manhole 2

Cable cut, descale and re-survey.

(Requires confined space entry equipment and operatives.)

Cost = £ 1680 + VAT

I hope the above is to your satisfaction. Should you wish to discuss further, please do not hesitate in contacting me.

Yours sincerely,

GENERAL MANAGER

Encl.

CLIENT:Ben Frazier				DATE: 28th January 2015		
LOCATION:17 Waddon Gardens, Primrosc Hill, NW3 REF: TkG/C/01091/sb					/sb	
	MANHOLE:	ĭ		MANHOLE:		
	INVERT LEVEL:	1400mm			1.2	
CONTRACTOR AS		1400mm		INVERT LEVEL:	2560mm	
SYSTEM:	FOUL	**********	SYSTEM:	FOUL	************	
	STORM	***************************************		STORM	***************************************	
	COMBINED	x		COMBINED	x	
	COVER SIZE:	450X600		COVER SIZE:	450X600	
CONSTRUCT:	BRICK	*********	CONSTRUCT	BRICK	***********	
	CEMENT	x		CEMENT	x	
	SECTIONS	***************************************		SECTIONS		
TYPE:	LIGHTWEIGHT		TYPE:	LIGHTWEIGHT	***********	
	MEDIUM DUTY	x		MEDIUM DUTY	x	
	HEAVY DUTY	**********		HEAVY DUTY		
MATERIALS:	SALT GLAZED	x	MATERIAL:	SALT GLAZED	x	
	CAST IRON			CAST IRON	***************************************	
	PORCELAIN			PORCELAIN	······································	
	PITCH FIBRE	***************************************		PITCH FIBRE		
	OTHER			OTHER		
PIPE DIAMETER:	100 MM	x	PIPE DIAMET	ER: 100 MM		
	150 MM			150 MM	· x	
	OTHER			OTHER		
CONDITION:			CONDITION:			
S.1	1		S.1		S.2	
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				4		
		2	a gr		S.3	
	S.2			ſ		
				4	S.4	

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CLIENT:Ben	Frazier		DATE: 28th January 2015
LOCATION:1	7 Waddon Gardei	ıs, Primrose I	Iill, NW3 REF: TkG/C/01091/sb
	MANHOLE:	3	MANHOLE:
	INVERT LEVEL:	2640mm	INVERT LEVEL:
SYSTEM:	FOUL	*********	SYSTEM: FOUL
	STORM		STORM
	COMBINED	x	COMBINED
	COVER SIZE:	450X600	COVER SIZE:
CONSTRUCT:	BRICK	***********	CONSTRUCT: BRICK
	CEMENT	x	CEMENT
	SECTIONS	************	SECTIONS
TYPE:	LIGHTWEIGHT		TYPE: LIGHTWEIGHT
	MEDIUM DUTY	x	MEDIUM DUTY
	HEAVY DUTY	*********	HEAVY DUTY
MATERIALS:	SALT GLAZED		MATERIAL: SALT GLAZED
	CAST IRON	***********	CAST IRON
	PORCELAIN	x	PORCELAIN
	PITCH FIBRE		PITCH FIBRE
	OTHER		OTHER
PIPE DIAMETER:	100 MM	***********	PIPE DIAMETER: 100 MM
	150 MM	x	150 MM
	OTHER		OTHER
CONDITION:			CONDITION:
		S.1 S.2	
	.		

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