

WWDS-022G CCTV camera survey of sewers

Guidance notes and procedures

What do I need to do?

Step 1 Arrange for a quote

Use the guidance below and contact a competent CCTV camera survey contractor. You will need to explain what needs doing and ask for a quote.

Step 2 Carry out the survey

The contractor may have to pre-cleanse the sewer by jetting it, and then carry out the CCTV camera survey.

Step 3 Report review

Send us a copy of the DVD video, and a paper copy of the written report. We will review and either approve it, or reject it with feedback..

Why do I need to arrange a CCTV camera survey?

Some of our Developer Services application forms ask you to carry out a CCTV camera survey. This is used to confirm the structural condition of a sewer, trace its exact position, and check for any connections. We use this information to review:

- S102 existing sewers that we are considering adopting.
- S104 new adoptable sewers.
- S105a sewers that transferred from private ownership in 2011
- S185 diversions.

Who can carry out a survey?

All contractors listed in these guidance notes hold Wessex Water permit cards. This means their staff have current confined spaces City & Guilds qualifications, and are licenced to work in the highway. They are approved to work on our apparatus, and include our requirements in their report.

What should the survey include?

The camera survey must be in colour, and be recorded in DVD video format.

The start-up screen must display:

- Site name
- Date
- Developer name
- Weather conditions

For each surveyed length between manholes, the screen must display beforehand:

- Weather conditions.
- Start manhole reference.
- Finish manhole reference.
- Direction of survey (upstream or downstream).
- Sewer material.
- Sewer size.



For each survey length between manholes, the screen must display the following during the whole recording of that length. The details must not obscure the view:

- Distance counter.
- Sewer material (only if material changes).
- Sewer size (only if size changes)..



Carrying out a CCTV survey

The written report must include:

- Site name.
- Date.
- Weather conditions (if changed from start of survey).
- Start manhole reference.
- Finish manhole reference.
- Direction of survey (upstream or downstream).
- Sewer material.
- Sewer size.
- Plans showing where the manholes are and which lengths are recorded.
- A meterage count which matches the display on the recording.
- Details of any cracks/fractures /defects and where they are located on the pipe (from one o'clock to 12 o'clock on the pipe's circumference).
- Water level.
- Any connections to the sewer.
- Any other significant findings.

How is a survey carried out?

We recommend the sewer is jetted before the survey so the pipework is clean and its easy to see joints and defects.

All surveys should be carried out in the downstream direction, unless it is not practical to do so. The survey must start at the entrance to the sewer pipe so the stub/rocker pipe can be seen.

The use of a pan and tilt camera is recommended to enable connections and laterals to be viewed in detail.

If there is a backdrop then all the backdrop pipework should be surveyed.

What happens if the sewer is full or flowing?

If the flow level is between 20-45% then it needs to be controlled. The contractor will advise you. This is normally done using a temporary stopper in the upstream manhole. If the flow is greater than 45% then over pumping or night work will be required. Wessex Water must agree this beforehand so we can check that customers will not be affected.

What happens if the recording is poor quality?

We may reject the survey if the details are not clear. It will need to be carried out again. Examples of a poor quality survey are:

- Out of focus.
- Lens obstructed by debris or foreign objects.
- Lens smeared or misted.
- Incorrect brightness (too much glare from inside the pipe).
- Jerky movement.
- Muddled or inconsistent information.

How much will it cost me?

It is up to you to arrange the survey and bear the cost.

The contractor can provide an estimate before carrying out the work.

| Inspection report | | | | | | |
|-------------------|----------|----------|----------|-----------|--------------|----------|
| DATE | TIME | LOCATION | DEPTH | INSPECTOR | WESSEX WATER | SCALE |
| 10/04/2019 | 10:15 | 10000000 | 10.00 | 10000000 | 10000000 | 10000000 |
| PROJECT | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 |
| LOCATION | Road | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 |
| TYPE | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 |
| LINE | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 | 10000000 |
| DEPTH | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 |
| DEPTH | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 |

Contractors currently employed by Wessex Water for CCTV camera surveys

Clearview Surveys Limited

Unit 301, Old Barn Farm Road, Wimborne BH21 6SP
www.clearviewsurveys.co.uk

Draintech Surveys

Atlantic House, Charnwood Park, Bridgend CF31 3PL
www.draintech.co.uk

EEG

8 East Portway, Andover SP10 3LU
www.eeg.uk.com

Glanville Environmental

7-8 Commerce Way, Highbridge TA9 4AJ
www.glanvilleenvironmental.com

Online Surveys Ltd

Whisperfield, Pontispool, Taunton TA4 1BG
www.onlinesurveys.co.uk

OnSite

89 Blackpole West, Blackpole, Worcester WR3 8TJ
www.onsite.co.uk

Upstream Pipeline Services

Creech Mill, Creech St Michael, Taunton TA3 3PX
www.upstreampipeline.co.uk

Can I use a different company?

Yes you can, but we cannot guarantee the quality of the survey. Beware of contractors offering a cut-price service.

If your contractor needs working access to survey our live sewers, they need to apply for a Wessex Water permit card. The staff must hold current confined spaces City & Guilds qualifications, provide a risk assessment and method statement for us to approve.

Contact us

For more information about applying for a Wessex Water permit card contact our Sewer Protection Team:
01225 526333 email sewer.protection@wessexwater.co.uk