

## Project, Culverted Watercourse Investigation



A 150-year-old overflow from a large spring fed Municipal park pool runs for over a kilometre to connect with a culverted brook course. The local council commissioned a me to provide a full report on the culvert from the pool, through the culverted brook course to the open section of the brook.

The report was to accurately map the position of all manholes and access points, the line of the culvert, the size and condition. The condition report was to highlight maintenance issues and make recommendations, and also to document any potential structural problems, the plan is to survey the culverts again in five years to determine any deterioration.



The last section of the culverted brook course prior to the open-air section. These are twin brick culverts, each 4m wide by 2.5m high. They run beneath the Town Hall, several pubs, shops and roads, the left hand culvert is heavily silted. We surveyed for and reported on the condition of the brickwork, any deformation in the expected shape profile, illegal foul connections, silt levels, high water marks and any other points of interest. The survey of two kilometres of culvert needed three full days.

The photograph to the right shows the arch of an old road bridge that was incorporated into the culvert many years ago.

We utilised many disciplines to complete this survey pulling together and managing some specialist sub-contractors to compliment our own skills. Such as WITA brick inspection surveyors, and main line CCTV surveyor with experience of floating through CCTV equipment where man entry was not possible



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