

Leakage Investigation Survey

Client: Beverle	ey, HU1									
Mains water me	eter info	rmat	ion							
Size (mm)	15-28		32-50	✓	75-100		125- 200		Above 200mm	
Serial number	12KE023	142								
Readings (1)	17871 <mark>.87</mark>	73			Time:	10.3	3 27/10/2	019		
Readings (2)	17872 <mark>.0</mark> 2	28			Time:	10.3	8 27/10/2	019		
Location	Meter loc	ated I	eft of entr	ance i	road in ver	ge.				

Leakage Activities

Acoustic sounding	✓	Correlation		Ground microphone)		Environmental Inspection		✓
Other	Isolation of rising main								
Pipe traced	CAT & Genny					Distance	e		
Pipe correlated	Accelerometer			Hydrophones		Distance	e		

Background Information

ı	Higl	n water	· bills	and	continuous	use	recorded	l on	meter	when	isolated	internal	ΙV.

Activity Summary



Leakage Survey Activities

After signing in at site I met up with Nicki who showed me around the site, the internal riser (pic 6) was pointed out and the main meter (Pic 5) was also pointed out.

I began the survey by closing the internal riser and sounding it for leak noise, there was a very small noise but not related to the presumed leak I was looking for.

On a quick inspection of one of the male washrooms close by it was noted that the urinal control was not working and the cistern was constantly filling, consideration should be given to have this repaired or replaced.

I continued with the leak survey and went to take a read from the meter (pic 5), on opening the chamber it was half full of clear water. Firstly I took a water sample from the chamber and tested it for chlorine, this proved positive so I then pumped out the water and noted that the water was rising quite quickly.

I shut the stop tap located inside the chamber, the meter had stopped recording at this point. I pump out the water once more and noted that the water was no longer rising in the chamber, I then opened the stop tap and in just a few seconds the chamber started to fill again confirming that there was a mains water leak not too far from the meter chamber. I set up the ground microphone soft ground probe and tested the area around the chamber, a very strong reading was recorded (pic 4) only half a meter from the outlet of the meter.

On checking this further with a longer probe water was being pulled up, based on the finding it confirmed that there is a mains water leak just half a metre from the outlet of the meter in the grass verge area. The leak has been marked in blue (pic 5).

If consumption is still high after the repair it is recommended that a further survey be carried out as there maybe another leak as it was not possible to check any more of the supply during this survey as the leak found was making too much noise to allow this.

The leak was measured at 31 litres per minute = 1.8m3 per hour and 44m3 per day at a cost of £136.40 per day x 365 days = £49,786 per annum.

Summar	y &	Recommend	lations
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Summary:

Underground leak located near main meter.

Recommendations:

Urgent repairs to supply

Survey carried out by

Engineer H2O Building Services	Date 27th October 2019
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