



Leakage Investigation Survey

Client: Garage , Truro, TR1

Mains water meter information

Size (mm)	15-28	✓	32-50		75-100		125-200		Above 200mm	
Serial number	13M012345									
Readings (1)	3688.390				Time:	08:55 27/08/2019				
Readings (2)	3688.412				Time:	09.00 27/08/2019				
Location	Meter located left of building at end of fence in footpath (Boudary Box)									

Leakage Activities

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

Background Information

A leak has been identified by site staff, area of flooding left of front of entrance doors in car park

Activity Summary

Pipework & Metering



Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6

Leakage Survey Activities

On arriving at site it was evident where the area of possible leakage was as there was a large wet patch (pic 3&4) in the car park and was pointed out by site staff.

On checking the revenue meter (pic 2) it had a constant flow rate of 4 litres per minute which equates to **5.7m3 per day at a cost of £31.74 per day or £11,588 per annum.**

The internal stop tap was placed in the closed position and the meter re checked and again the flow rate was 4 litres per minute confirming an external leak on the supply pipe.

The supply pipe was sounded out by use of a listening stick (pic 4) in and around where the wet patch was, nothing could be heard at the surface.

The ground microphone (pic 5) was then used and a faint sound was obtained. To make this exercise more accurate, pilot holes were drilled through the tarmac and concrete and a sounding probe inserted.

The leak noise was now much louder and could be pinpointed ready for excavation, the area was marked up with blue paint (pic 6) so that it could be identified by the excavation team.

Summary & Recommendations

Summary:

External leak located on supply and marked with blue paint

Recommendations:

Excavate and repair

Survey carried out by

Engineer	H2O Building Services	Date	27 th August 2019
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