

# **Leakage Investigation Survey**

Client: Car dealership, Glasgow										
Mains water meter information										
Size (mm)	15-28	✓	32-50		75-100		125- 200		Above 200mm	
Serial number	16N1243	58	•						l	
Readings (1)	19235.330			Time:	09.03 8 <sup>th</sup> November 2018					
Readings (2)	19235.530			Time:	09.08 8 <sup>th</sup> November 2018					
Location	Meter loc	cated	in footpath	n left d	of entrance	e road				

### **Leakage Activities**

Acoustic sounding	<b>✓</b>	Correlation	ı	Ground microphone	è	✓	Enviro Inspec	nmental	
Other	Isolation of rising main								
Pipe traced		CAT & Genny				Distance			
Pipe correlated	Accelerometer			Hydrophones		Distance			

## **Background Information**

Suspected water leak causing high water bills in excess of £20,000p
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### **Activity Summary**

#### Pipework & Metering

The water meter is located in footpath, LHS of entrance road





Pic 1 Pic 2





Pic 3 Pic 4





Pic 5 Pic 6





Pic 7 Pic 8

#### **Leakage Survey Activities**

After walking the site with site manager to establish where all mains water isolation points were, the task of looking for a problem began.

A reading of the revenue meter was taken (pic 1) which had a flow rate of 2.5m3 Pper hour, on inspection of some of the internal meters it was evident that in the valeting plant room there was a sub meter (pic 3,4&5) that had a costant flow. On timing this flow rate for a while it was noted that it had a constant flow rate of 40 litres per minutes which equates to 2.4m3 per hour and 57.6m3 per day at a cost of £129 per day, this supply was then isolated.

The revenue meter was then checked and the flow rate had reduced to 0.5m3 PH (pic 2), this flow rate was confirmed by the tanks filling for the vehicle jet wash area in valeting and also the use of the jet wash.

The sub meter in the valeting plant room (pic 3) was then put back in commission, our engineer made an enquiry to the valeting manager who pointed out that the meter measured water used on the main pitch areas around the show room.

He escorted our engineer around and pointed out the standpipes around the site.

Once sounding began on the standpipes, leak noise could be heard almost straight away, on one of the standpipes, also subsidence was apparent. On checking out the standpipe a substantial leak noise could be heard, on probing of the grassed area clear water was being drawn up confirming a leak below ground at this location (pic 6,7&8).

The site is less that one year old so it maybe a warranty issue with the builder, this to be confirmed with site before action is taken.

Summary & Recommendations
Summary:
Substantial leak leak located on pitch standpipe
Recommendations:
Excavate and repair.

Survey carried out by

Engineer	H2O Building Services	Date	9 <sup>th</sup> November 2018
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