



Leakage Investigation Survey

Client: Lincoln,

Mains water meter information

| | | | | | | | | | | |
|---------------|---|---|-------|--|--------|------------------|---------|--|-------------|--|
| Size (mm) | 15-28 | ✓ | 32-50 | | 75-100 | | 125-200 | | Above 200mm | |
| Serial number | 14M381231 | | | | | | | | | |
| Readings (1) | 6602.338 | | | | Time: | 09.05 27/02/2020 | | | | |
| Readings (2) | 6602.395 | | | | Time: | 09.10 27/02/2020 | | | | |
| Location | Opposite reception entrance in footpath | | | | | | | | | |

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

Continuous usage and high consumption figures, head office asked us to investigate.

Activity Summary

Leakage Survey Activities



Pic 1



Pic 2



Pic 3



Pic 4



Pic 5

On arrival at site we checked in with the site manager.

The the revenue meter was then checked (pic 1) where it had a constant flow rate of **11.5 litres per minute = = 0.6m³ per hour which equates to 16.56m³ per day = 6,044m³ per annum.**

We went inside the premises to look for the internal stop tap.

On entering the kitchen area a loud leak noise could be heard.

Upon further investigation the leak noise was found to be coming from a water heater located under the sink (pic 4).

The water was running straight through the water heater and into drain (pic 5). We have also taken a video of this and have attached this with the report.

We checked outside and there was evidence of a substantial amount of water running to drain (pic 2)

We went back inside and closed off the stop tap (pic 3).

The meter was re checked and the flow rate was now zero confirming that the water heater was the reason for the high consumption.

Our engineer spoke to the site manager and explained what had been found, and he asked us to leave the heater isolated to save waste and pending repairs.

Summary & Recommendations

Summary:

Repair or renew water heater under sink in kitchen area.

Survey carried out by

| | | | |
|----------|-----------------------|------|--------------------------------|
| Engineer | H2O Building Services | Date | 27 th February 2020 |
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