



TOWN OF POUCH COVE

September 1st, 2022 – Correlator Request for Quote

The Town of Pouch Cove (“Owner”) requests quotes from firms qualified to provide water leak detection equipment. Please submit your quote to susan@pouchcove.ca by 3:00pm on Thursday September 8th, 2022 with supporting information.

The leak noise correlator must be proven effective on metallic and non-metallic piping and shall comply with each clause below. Examples of approved equipment include the Echologics LeakFinder ST system or equal. Bidders proposing other equal systems must demonstrate compliance with each clause below:

The “correlator” refers to sensors, communications systems and software provided as a package to enable leak detection.

1. The correlator shall work consistently on water network piping from 13 mm to 600 mm (0.5” to 24”) in diameter.
2. The correlator shall be capable of detecting leaks on metal, concrete, and plastic pipes.
3. The correlator shall be capable of measuring the acoustic wave velocity of the pipe to support accurate leak locations.
4. The leak correlation system must display leak detection results on commercially available laptop.
5. The correlator shall be capable of saving data as digital files for further analysis to determine if a leak is present after on-site data collection.
6. The correlator software shall be capable of displaying frequency spectrum of each channel, as well as the coherence function with easily adjustable frequency bars to improve correlation.
7. The correlator shall include 2 geophones and 2 accelerometers each with high sensitivity piezoelectric sensing element with 14.5 kg (32-lb) pull base magnet.
8. The correlator shall have optional hydrophones for low-pressure operation (up to 1,000 kPa or 150 psi) or high-pressure operation (up to 2,700 kPa or 400 psi) with appropriate hydrant adaptors.
9. The sensor and radio must be separate to support flexible field installation.
10. The correlator shall use analogue radios with a minimum power output of 10mW per channel in the 400-500 KHz frequency range.
11. The correlator shall have analog to digital converter with frequency response of 0.5-20,000 Hz.
12. The correlator shall be capable of real time correlation to determine a leak location. Logger type correlators that cannot provide data in real time are not acceptable.
13. The correlator shall be capable of operating at ambient temperatures between -33°C to +55°C (-27°F to 130°F).
14. A full two-day on-site training course by the original equipment manufacturer (OEM) must be included with the purchase price of the correlator.
15. Repair services offered within Canada must be from original equipment manufacturer (OEM).
16. The original equipment manufacturer (OEM) must have a production center within Canada.
17. Equipment must have a two-year limited warranty included and have the option for extended warranty terms.

www.pouchcove.ca

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