



# CANADIAN LEAK DETECTION

THE ORIGINAL LEAK SPECIALISTS™

955 Wilson Avenue UNIT16

North York, ON M3K 2A8

Office: 416-630-1717

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[www.canadianleakdetection.com](http://www.canadianleakdetection.com)

# Report

September 23, 2021

Doreen McInnes  
City of Elliott Lake  
1 Airport Road, HWY 108  
Elliot Lake, ON P5A 2S5

Re: Indoor Pool - Leak Detection, Assessment, and Repair

Dear Doreen McInnes,

Thank you for calling Canadian Leak Detection. As requested, leak detection was carried out on both swimming pools at your facility as well as leak repair on your smaller pool. Repairs for the bigger pool were left for a future date. Below is a summary of our findings as well as quotes for outstanding repairs.

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### Large Pool:

An electronic leak detection was carried out on all the swimming pool with 16 returns and all 8 skimmers. The return line tested ok. 2 of the 8 skimmers were found to have plumbing leaks directly below them. Recommend changing the skimmers and attached plumbing. The pool was dove and an inspection carried out on the shell and both main drains. 2 cracks were found seeping in the shell. They appeared to be plugged with debris and will probably begin leaking more when the pool is vacuumed.

*>Estimate to cut out, excavate, and replace/change skimmers is \$6,000/skimmer.*

*>Estimate to inject the cracks using a high-pressure polyurethane injection is \$100/ft. (Approx. 20 feet)*

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### Small pool:

An electronic leak detection was carried out on the skimmer suction line and all 3 returns. The skimmer line tested ok. A large leak was found on the return line and marked. Repairs were requested for the small pool return line. The concrete was cut and removed above the leak. The concrete was very thick and went right to the pipe. No excavation was required due to that, and the natural settling of the earth beneath the deck. The faulty section of pipe was removed, and new pipe and fittings installed. A pressure test revealed a second leak on the line. The leak was pinpointed behind one of the returns. The existing hole was filled, and new concrete poured leaving room for tiles to be installed at a later date. The concrete was then cut and removed at the second leak location. A hole was excavated exposing a hole in the copper piping going into the pool wall. The pool wall was chipped away to expose the leak more and make repairs possible. The faulty section of pipe was removed, and new pipe and fittings were installed. The return line then tested ok. The hole was filled, and new concrete was poured leaving room for tiles to be installed at a later date.

The small pool is no longer leaking.

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### Further inspection:

An inspection of the piping through the hatch near the maintenance room was carried out. Pipes for the small pool were found to be missing clamps. Clamps were installed. The piping for the small pool was found to transition from PVC to Poly pipe at this point. Considering its age, the pipe was found to be in visibly good condition. The pipe for the large pool is schedule 80 PVC and visibly appears in good condition as well. A small amount of settling of the fill beneath the deck could be seen. This happens naturally and is not of concern as the deck appears well supported. Overall, besides the existing leaks under the 2 skimmers, both pools are in sound, operational condition.

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Please feel free to call with any other questions or scheduling requests. We can be reached Monday-Friday, from 9am – 5pm by phone or email.

Sincerely,

Mark Gavel  
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[canadianleakdetection@hotmail.com](mailto:canadianleakdetection@hotmail.com) |