

## **Alert and Notice to City/Housing Managers, Water Commissioners and Environmental Consultants**

### **New Technology: Water Monitoring Innovations**

eWaterTek, recently listed in the July 2004 issue of *R&D CANADA* Top Spenders, has much to reveal as part of its prototype development program. In conjunction with senior researchers and engineers at the University of Toronto, systems analyst and founder Harry Moskoff has successfully designed (and patented) a revolutionary water screening system for the water industry. Installed "downstream" from the utilities, it is designed to provide a constant running on-line report of particle size, chlorine and heavy metal contaminants. If and when the warning alarm sounds, it is indicative of a significant abnormality in the contents of our tap water.

This brand new system uses laser/UV light in a unique application that provides an unprecedented level of water security. Never before have conventional lasers been applied in this fashion. eWaterTek will be incorporating a variety of useful technologies: optical detectors, real-time monitoring software, sensor and detection hardware, signal conversion and analysis, geographic positioning, and Internet communications. Warnings and outputted values will be sent only to the clients in the geographic areas that have subscribed to this service.

Why should municipalities have to take more and more samples to laboratories far away from the water source, only to wait several days for results? More stringent regulations are forcing many smaller cities into paying high prices for upgraded monitor and/or laboratory analysis. This inline system saves that money!

The above-mentioned components detect such dangers as lead solder shedding off deteriorating pipes, which many North Americans fear will rise to epidemic levels, if not caught in its early stages. Pending ongoing research, this UV/laser fluorescence combination will instantly detect germ contaminants as well, since this technology can be used for organic contaminant characterization in water (using trace enrichment HPLC).

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**eWaterTek:** *Bringing Advanced Water Monitoring Right To Your Tap!*

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For future company projects, UV fluorescence will be introduced in conjunction with optical interface coupler technology to potentially detect man-made spores such as anthrax, etc. not only in liquid applications, but also even in the vapour we breathe, and can therefore potentially warn of deliberate sabotage of municipal and commercial environments.

The eWaterTek monitor and detection system, created by Toronto-based inventor, Harry Moskoff, is an affordable, fully automated device that detects chlorine levels, germ particles and now the new technology is underway to instantly detect the presence of heavy metals, i.e. – iron, lead and zinc. The vision is to address water contamination utilizing technologies that were simply unavailable a mere ten years ago.

This system detect pollutants, qualifies the data, records and analyses and reports its findings seamlessly and constantly. Currently, the system is being field tested at two Toronto community municipal housing Co-Ops at a no-obligation trial. Upon further positive test results, the eWaterTek system is heading for a breakthrough in remote communal monitoring, being a reliable 24-hour early warning for potential health hazards. According to a new marketing evaluation grant awarded to eWaterTek by the Canadian Industrial Research Assistance Program (IRAP), the results are “quite positive”, reflecting a solid market penetration.

In fact, new housing developments are considering the flexible financing and leasing alternatives available for future projects, in order to provide an optional upgrade to many homes, being a source for peace-of-mind to new residents. The interchangeable units can be installed in less than two hours, minimizing water supply disruption. EwaterTek’s control module converts and amplifies data signals, then forwards the readings via phone line or cellular (or DSL) connection to a central monitoring station. This system can be adapted to cover the water security needs of a single factory, a small complex, or a vast city, effectively eliminating constant lab analysis. All maintenance is handled by eWaterTek in conjunction with the city involved, and all under one roof. In terms of installation, Moskoff has designed another first, i.e.- a special mounting system that encases these instruments with a fibre glass screen mesh that allows for sturdy protection as well as ventilation for the optics inside.

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Since January 2004, the representatives from eWaterTek have journeyed to Paris, Miami, San Francisco, Philadelphia, and Vancouver on trade missions sponsored by Ontario Exports and Industry Canada promoting the solution that just makes sense. “This is the future”, as Moskoff is most quoted as saying. At the young age of 37, he has almost single-handedly worked for the better part of four years building his technology, company and team. Recently attending at the [American Water Works Association](#) (AWWA) annual convention in Orlando reconfirmed that indeed, no similar technology has yet been commercialized for this industry.

For a small Ontario company (that is still in its first round of financing), what remains to be seen is who will be the next technical alliance to take the company into the public spotlight. At the moment, the best formula goes to laser companies in the Silicon Valley. Can conventional laser technology break into the huge water market?

Marq de Villiers, the famed author of a national bestseller, WATER, would apparently think so, stating:

*“I... think sophisticated engineering can be usefully combined with a conservationist ethic to provide solutions that can be arrived at in no other way. We all need to be reminded, from time to time, of the deeper implications of that ecologists’ motto that ‘we’re all downstream.’”*

For information that will enable you to, at last, provide an instant safety net of continuous, full-scale screening, onsite and at flexible rates, please contact:

Harry Moskoff – CIO, eWaterTek Inc.  
(905) 508-0200  
(905) 508-0065 FAX  
(866) 508-0202 Toll-Free U.S.A./CANADA  
[moskoff@ewatertek.ca](mailto:moskoff@ewatertek.ca)

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