



## Hydrology and Environment

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Attention: to whom it may concern

### **Re: Commercial offer of “Hydrology and Environment”**

“Hydrology and Environment” is an Ontario-based company founded in 2001, hereby is offering services based on a novel model developed by Rimma Vedom, Ph.D. in Hydrology.

Rimma Vedom graduated from the State Hydrometeorological Institute of Russia in St. Petersburg in 1976, and made her PhD in hydrology in 1995. During the 1983-98 periods she was responsible for optimization of the integrated monitoring network of Estonia, upgrading it from the manual to automatic data acquisition, processing and analyzing as well as preparing the real-time datasets for hydrological forecast and the water resources qualitative and quantitative assessments.

Novelty of the company’s approach consists of the Structural Harmony Chart of Hydrosphere (SHC) that is the only technical solution for the synchronized structure of the hydrosphere spacetime performing its entirety and uniqueness. Under the hydrosphere spacetime it is meant the synchronized state of atmospheric, cryospheric, biospheric, surface, and geo-spherical waters in gaseous, liquid and solid phases at particular space (spot, watershed, territory) and particular time (instant, hour, day, month, year, and period). SHC proposed by R. Vedom as the governing principle for monitoring spatial (network) and temporal (program) settings allows dramatically improve the monitoring, modeling and the assessment efficiency in cost-effective manner.

The following services can be fully customized and accomplished by the company with high quality and in timely manner:

1. Evaluation and optimization of the existing monitoring network and programs for the Integrated Watershed Management at the Canadian side of the Lake Ontario watershed based on the road salt and heavy metals as an example:  
“Assessment of the road salt daily concentrations and loads, their spatial and temporal dynamics in the examined area and loads to the Great Lakes for the period of 2000-2005 based on existing monitoring data using the original Separated Flow Approach Model with SHC as the key element of it, concentrating on uncertainties caused by inconsistencies of existing spatial and temporal monitoring settings”  
Main Objective: to optimize the monitoring spatial and temporal settings in cost-effective manner  
Value Proposition: to improve the overall performance of the assessment works and on this basis to save the required time and resources
2. Evaluation of the risk of exposure to the MAK and AL excesses for the road salt and heavy metals (Pb, Cr, Hg) in the examined area:  
“Development of methodology for the real time assessment of chlorides and heavy metals concentrations, their spatial and temporal dynamics and the excesses for the period of 2000-2005 based on the optimal monitoring system using the original Separated Flow Approach Model with SHC as the key element of it”  
Main Objective: to develop methodology and tools needed for organization of the real time control system of the risk to exposure for the further it mitigation  
Value Proposition: to improve the monitoring and assessing models efficiency and performance in cost-effective manner

The company would be delighted to evaluate a scope of the specific works and provide detailed plan of its accomplishment and proposed contract costs. Preliminary meeting and discussions of your needs are free and can be held at any time convenient to you. The high quality works specifically tailored for your specific needs and requirements are guaranteed.

Thank you for your attention.

For the additional information and preliminary conversation please contact Rimma Vedom by e-mail [rimma@hydrology.ca](mailto:rimma@hydrology.ca) or phone 905 823 6088; [www.hydrology.ca](http://www.hydrology.ca)

Best Regards,  
Rimma Vedom, Director