

About the Water Balance Presentation Team

Ted van der Gulik, P.Eng

President
Partnership for Water Sustainability in BC

Until his retirement in 2014, Ted van der Gulik was the Senior Engineer in the Ministry of Agriculture. Over the course of his 35-year career with the Ministry, Ted built an international reputation for his leading-edge work in agricultural water resource management. This was highlighted in 2000 when he received the Irrigation Association's prestigious Crawford Reid Memorial Award, recognizing his work in promoting proper irrigation techniques.



Ted has led numerous water projects over the years that have had a large impact not only on individual farms but also on entire communities and watersheds in the province of BC. The many guides and manuals he has written are used locally and around the world.

Ted's accomplishments include two Premier's Awards of Excellence: in 2009, for the Water Balance Model; and in 2010, for the Agriculture Water Demand Model. His contributions go beyond agriculture and encompass integrated watershed planning initiatives. His provincial leadership in water conservation and innovative water sustainability practices demonstrates his ability to see the bigger picture and encourage different disciplines to work towards a shared goal.

Kim A Stephens, M.Eng. P.Eng

Executive Director
Partnership for Water Sustainability in BC

Kim Stephens is an engineer-planner. His four decades of experience cover the spectrum of water resource and infrastructure engineering issues and applications, from master planning and modelling to implementation of capital projects. He specializes in public policy and has played a leadership role in a series of initiatives in British Columbia related to water sustainability, rainwater management and green infrastructure.



More than a decade ago, Kim looked at rainfall differently and developed the Water Balance Methodology that the Province incorporated in *Stormwater Planning: A Guidebook for British Columbia*. Since 2003, Kim has been responsible for developing and delivering the *Water Sustainability Action Plan for British Columbia*, the partnership umbrella for a water-centric approach to community planning and development.

He has been invited to speak on "the BC experience" at forums in Australia and throughout North America. His work related to UniverCity at Simon Fraser University is featured in the book *Dancing with the Tiger: Learning Sustainability Step by Natural Step* (2002).

Jim Dumont, P.Ag., P.Eng

Engineering Applications Authority
Partnership for Water Sustainability in BC

Jim Dumont is a recognized specialist in hydrologic modeling and infrastructure engineering. For many years, he has been teaching water resource and modelling seminars organized by APEGBC.



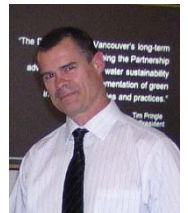
Jim evolved the Water Balance Methodology to address the relationship between rainfall volume control and resulting flow rates in streams; and developed the Stream Health Methodology as the technical foundation for the provincial 'Beyond the Guidebook' initiative in 2007. This methodology correlated stream erosion as a measure of stream health.

Jim's innovation and many accomplishments as Engineering Applications Authority encompass creation of the technical foundation for both the *Water Balance Model Express for Landowners* and *Drainage Infrastructure Screening Tool*. The latter is web-based and embeds a common-sense engineering methodology that allows local governments to quickly and efficiently assess the hydraulic performance of storm sewer systems, carry out redevelopment and climate change scenario comparisons, generate immediate answers and establish priorities for detailed analysis and capital planning purposes.

Richard Boase, P.Geo.

Environmental Protection Officer
District of North Vancouver

A geoscientist and Co-Chair of the Water Balance Model Partnership, Richard Boase is an innovator and is North Vancouver's project manager for case study demonstration applications that have been driving the evolution of the Water Balance Model for the past decade.



Land redevelopment and densification to create the Lynn Valley Town Centre resulted in an applied research and implementation opportunity. North Vancouver is pioneering the integrated application of performance targets for runoff management, at the neighbourhood scale, to protect stream health. Under Richard's leadership, the District has also demonstrated the cost-effectiveness and power of imagery analysis as a rainwater management tool.

Richard Boase is the Water Balance Model Partnership's lead for development of the web-based *Water Balance Model Express for Landowners*, and the District of North Vancouver's Hastings Creek Watershed Blueprint is the demonstration application for this web-based tool. The Express has pre-set performance targets that are watershed-specific. This means that landowners will then be able to focus on the choices and the geometrics of fitting appropriate rainfall capture measures onto their properties.