

## **Stave Rive Project Water Use Plan**

### **Monitoring Program Terms of Reference**

- **SFLMON-8 – Seasonal Timing and Assemblage of Resident Fish**

#### **Addendum 2**

## **A1 Addendum to SFLMON-8 – Seasonal Timing and Assemblage of Resident Fish**

### **A1.1 Addendum Rationale**

A gap identified by the Stave River WUP Monitoring Advisory Committee (MAC) was that there is insufficient information available on seasonal use of the river downstream of Ruskin Dam by resident fish with which to assess potential impact of the flow operational changes specified by the plan.

The key management question was not able to be answered using that data collected from the one-year reconnaissance-level surveys conducted in this relatively large and complex river system, both physically and biologically.

BC Hydro met with the contractors and members of the MAC to review the Stave monitors in Burnaby on November 25, 2012. The MAC discussed extending the monitor due to the fact that the management questions were not answered.

### **A1.2 Study Design**

To answer the management question and test the impact hypothesis additional data is required. During the 2010-2011 study, all low-flow data were confined to one sampling period; additional study is needed at specific flows, preferably in September 2013 and 2014. September is preferred because it is well past the Fraser River freshet period, the fry of several resident fish species will have emerged by then, and Chum Salmon spawners will not yet be in the river at that time.

Since no effect of river segment on fish habitat use was previously found, sampling would be limited to one or two main channel segments and the side channel to allow greater sampling effort in each of the two habitat types.

### **A1.3 Budget**

We request approval for three more years (2013/2014 for data collection and data analysis in 2015) of the program for a total of \$78,733 at this time.