

## **LOWER FRASER RIVER DIKE PATROL GUIDELINES 2009**

Dike patrols must be carried out during high water events to monitor the performance of the flood control works and identify any corrective actions. The following general guidelines have been developed for the Lower Fraser River at the Mission gauge. Each Diking Authority should establish dike patrol frequency levels based upon specific dike conditions and the river levels at a gauge located near the dike.

### **STAGE I MISSION GAUGE 6.0 or a water level 2.5 M below the dike crest**

At this stage the river is generally bankful and patrols should be mobilized if the river level continues to rise.

### **STAGE II MISSION GAUGE 6.5 or a water level 2.0 M below the dike crest**

An inspection of the full dike system once each day is recommended at this stage.

### **STAGE III MISSION GAUGE 7.0 or a water level 1.5 M below the dike crest**

Crews should patrol the dikes on a 24 hour basis.

**NOTE:** Local conditions may require more frequent inspections of the dikes and the river banks adjacent to dikes to monitor for seepage and erosion problems.

### **FRASER RIVER WATER LEVELS**

Current water level readings at Hope, Mission, Whonnock, Port Mann, Deas Island and Steveston are available from Water Survey of Canada at the following website:

<http://scitech.pyr.ec.gc.ca/waterweb/disclaimerB.asp>

Other Fraser River water levels can be determined from a network of local gauges as shown on a location map on the River Forecast Centre website. Forecasts of water levels at these local gauge locations will be posted during the peak freshet period:

[http://www.env.gov.bc.ca/rfc/river\\_forecast/Freshet2009\\_info.html](http://www.env.gov.bc.ca/rfc/river_forecast/Freshet2009_info.html)

Approved by Neil Peters, Inspector of Dikes, April 27, 2009

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**Ministry of Environment**

Regional Operations  
Lower Mainland Region  
Water Stewardship Division

Mailing/Location Address:  
10470 152 Street  
SURREY BC V3R 0Y3

Telephone: (604) 582-5200  
Facsimile: (604) 582-5235  
<http://www.gov.bc.ca/>