

**International Rainy Lake Board of Control**  
**International Rainy River Water Pollution Board**

**Joint Annual Public Meeting**

La Place Rendez-Vous  
Fort Frances, ON  
August 14, 2012

# Agenda

- Introductions
- Background
- Water Levels and Flows
- Water Quality Monitoring
- Basin Issues
- Rule Curve Review Studies
- Questions / Discussion

# Introductions

## Canada

## USA

IRRWPB Members:

vacant

Jeff Stoner

Greg Chapman  
Kelli Saunders  
(alternate)

Nolan Baratono

IRLBC Members:

Gail Faveri  
vacant

Col. Michael Price  
Leland Grim

IRLBC Eng'g Advisors:

Rick Cousins  
Matt DeWolfe

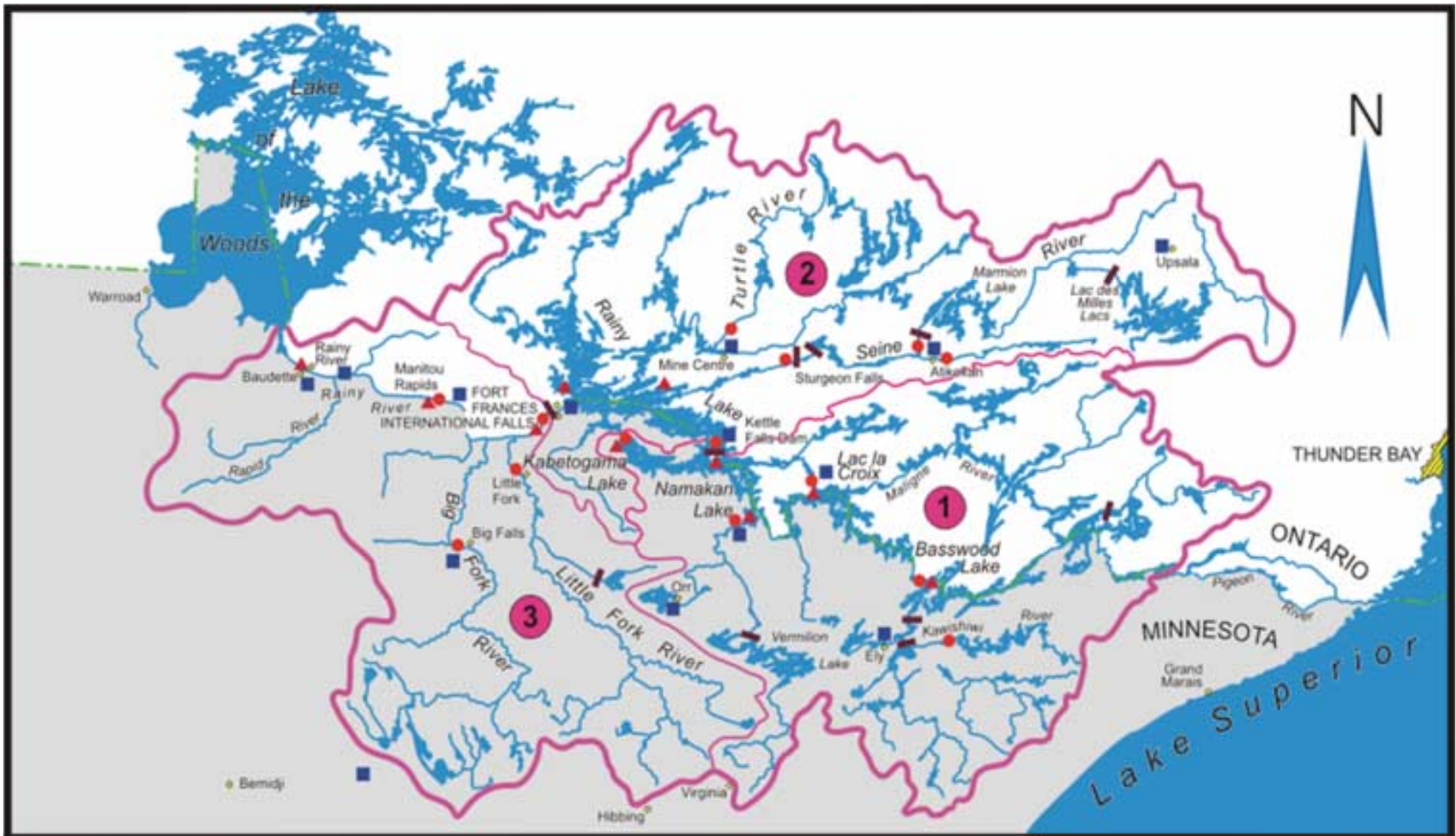
Edward Eaton  
Kari Hauck

Boards' Secretary:

Tana McDaniel

# Background

- IJC created IRLBC in 1941 and IRRWPB in 1966
- United States and Canadian Sections with equal representation
- IRLBC is mandated by the IJC to monitor, and at times direct, the regulation of Rainy & Namakan Lakes
- IRRWPB is mandated by the IJC to monitor pollution issues in the Rainy River
- Boards provide a joint report semi-annually to the IJC and hold at least one joint public meeting annually
- IJC website: <http://www.ijc.org> - click on Boards tab at the top of the page



**LEGEND**

International Boundary - - - - -

Drainage Basin - - - - -

Sub-Basins - - - - -

- ① Namakan Lake
- ② Rainy Lake
- ③ Rainy River

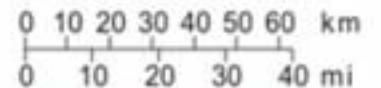
Control Dams - - - - -

Data Gauges (Near Real Time)

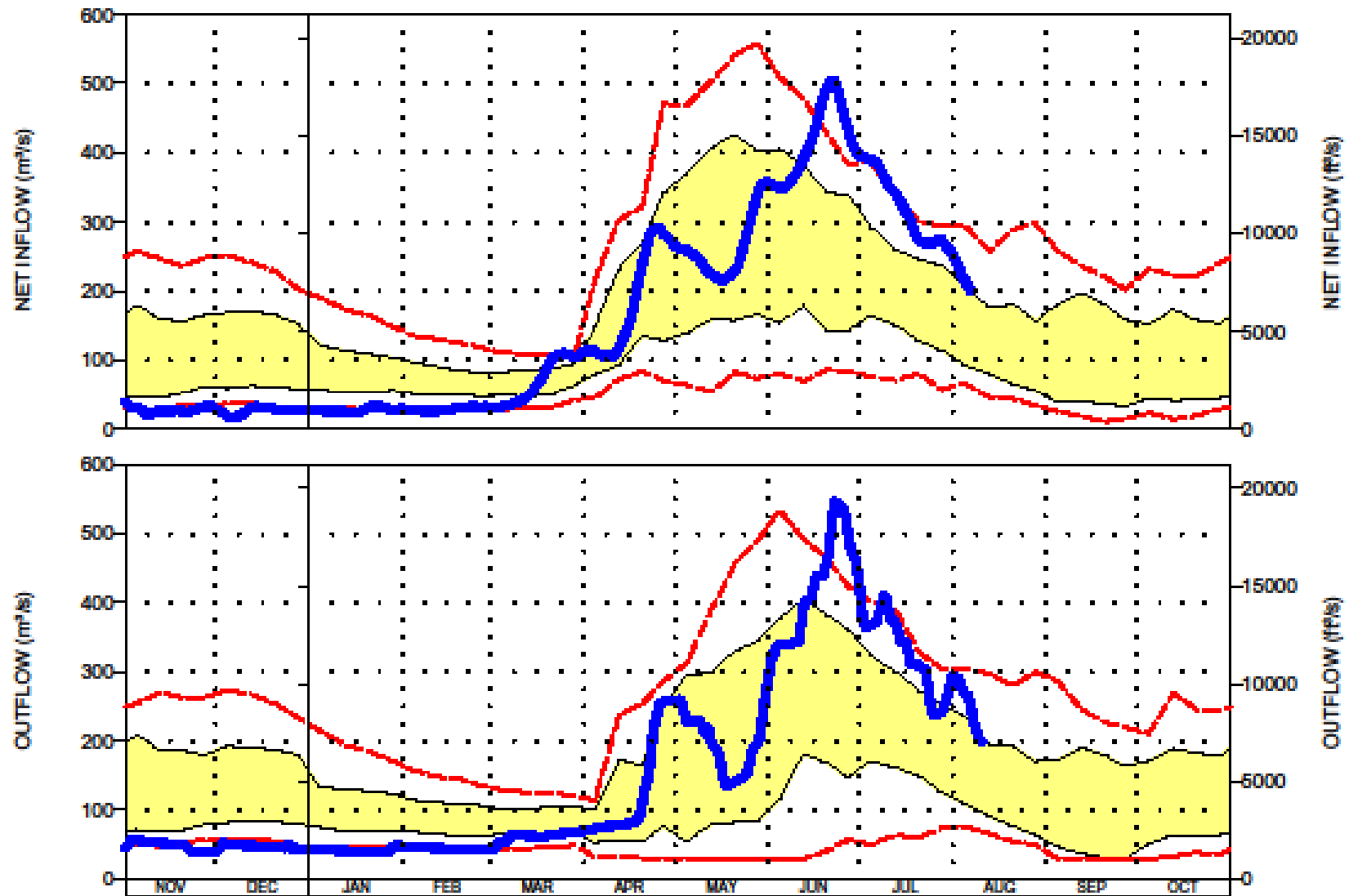
- Stream Flow - - - - - ●
- Water Level - - - - - ▲
- Precipitation - - - - - ■

International Rainy Lake Board of Control  
IRLBC

**Rainy River  
Drainage Basin**



# Namakan Lake Inflows and Outflows

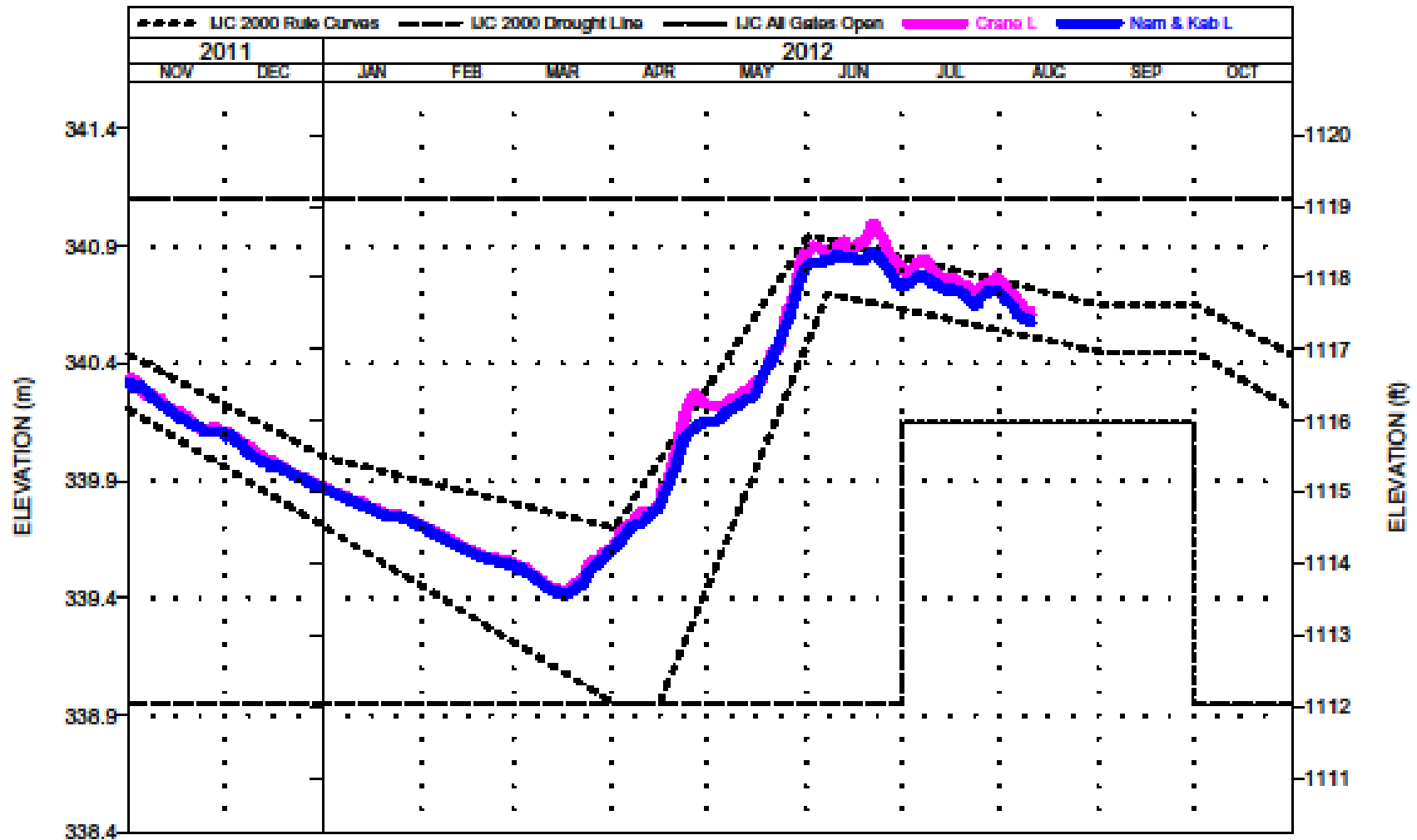


# Namakan Lake Level

IRLBC

ISSUED: 2012.08.10

## NAMAKAN LAKE

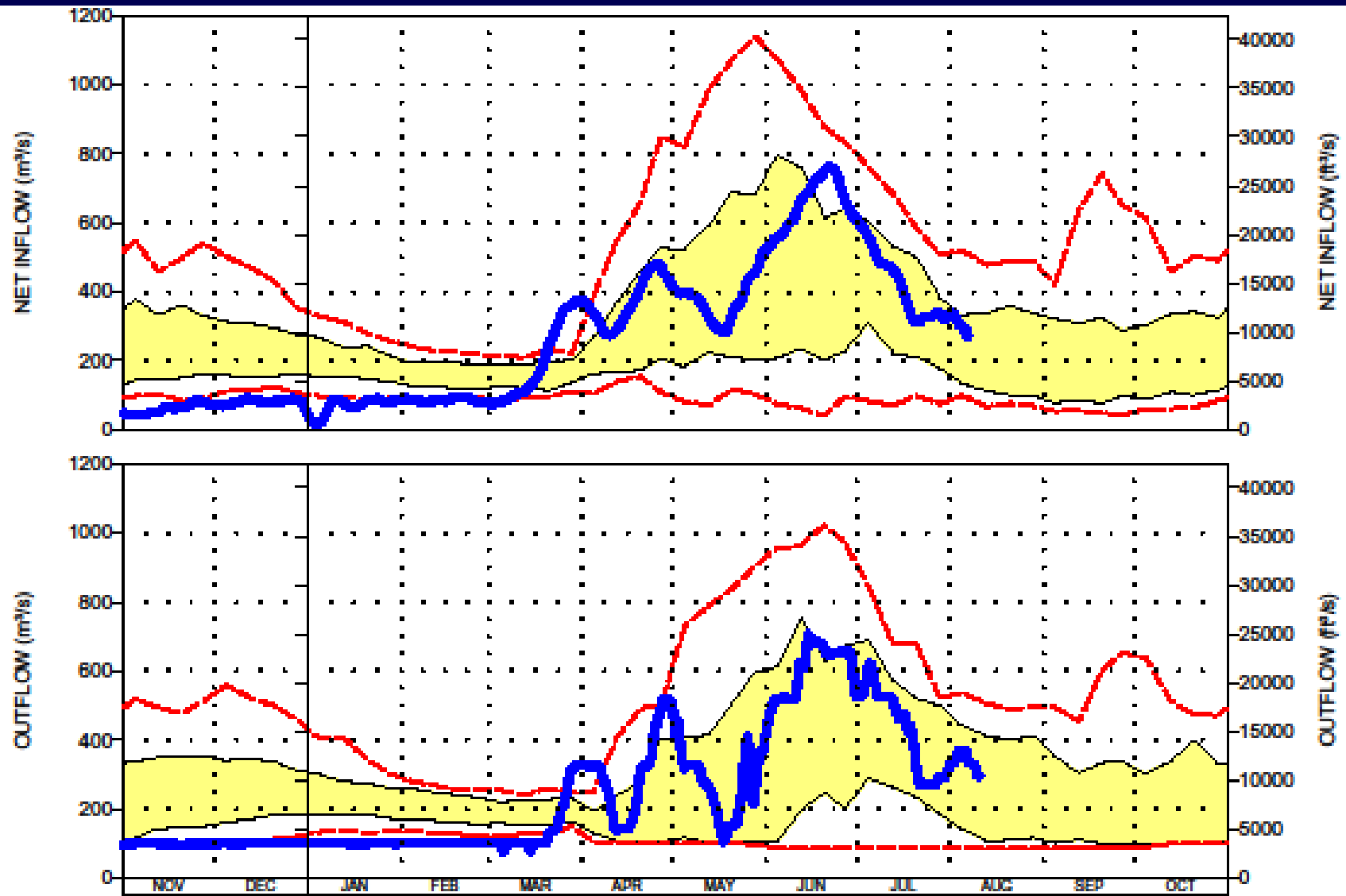








# Rainy Lake Inflows and Outflows

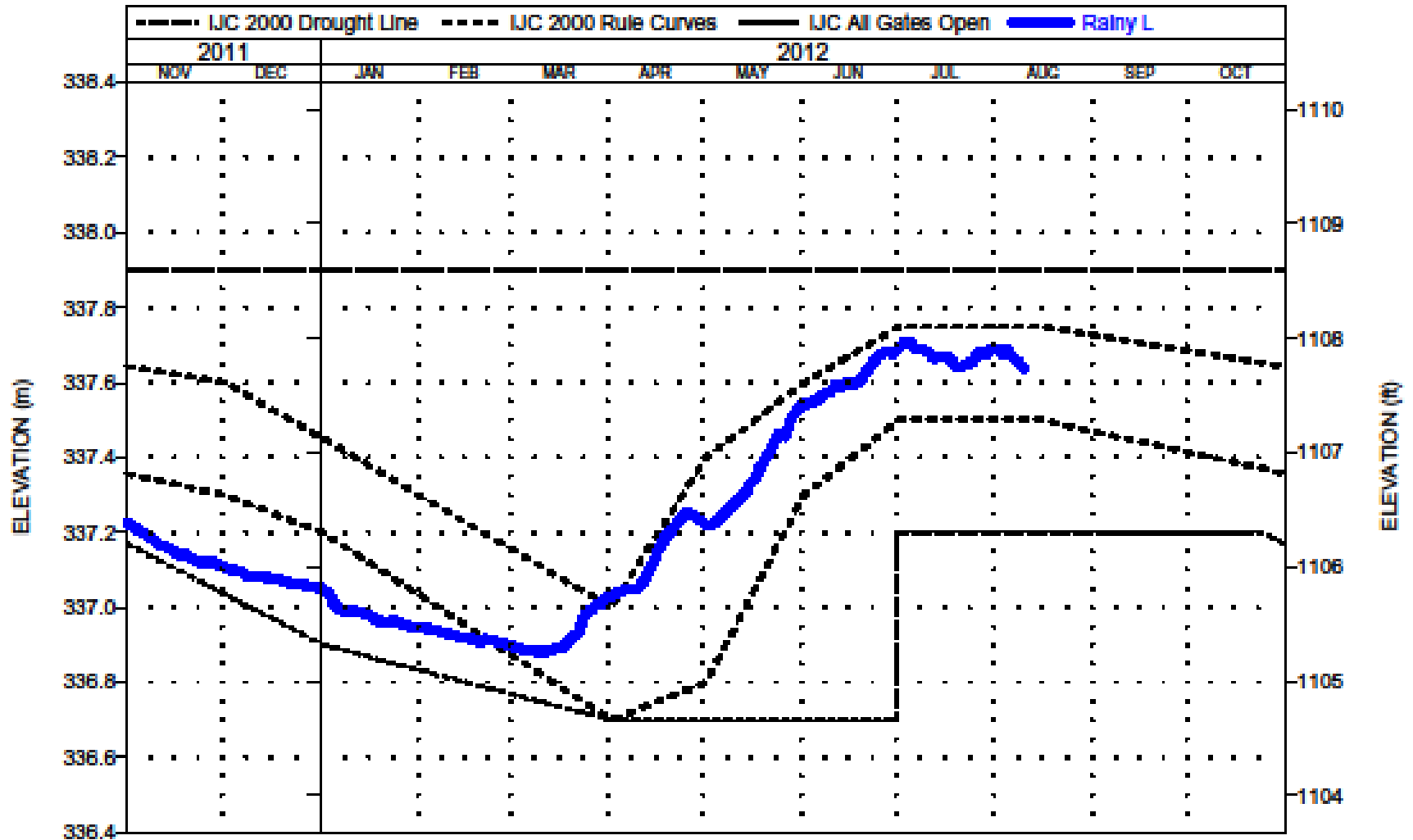


# Rainy Lake Levels

IRLBC

ISSUED: 2012.08.10

## RAINY LAKE



# Rainy River Water Quality Locations



Figure 1. Rainy River Sampling Locations.

# Basin Issues / Activities

- Mining development
- Effects of water level regulation on wild rice
- Invasive Species
- Governments respond to Lake of the Woods and Rainy River watershed report

# IJC International Watershed Initiative

- Seine River Sturgeon Project
- Hydraulic model of Namakan Pinch Points
- IJC Data Harmonization for the Rainy Basin

# Nineteen Studies to Assess the Effects of the 2000 Rule Curves

- Modeling of water levels and flows
- Effects on fish spawning and nursery habitat
- Effects on cultural sites
- Effects on benthic invertebrates, mussels, marsh nesting birds and vegetation
- Effects on water treatment plants and fish hatcheries
- Effects on flooding and ice damage



# Effects of Flooding and Ice on Property Damage Study

- Study looking at effects of the rule curves on flooding and ice damage to properties on Rainy and Namakan
- Need to talk to local landowners and resort owners- when and how is it best to contact you?
- Are there cottage or resort associations who would like to participate?
- Contact Mike Shantz
- 905-336-4956 or [Mike.Shantz@ec.gc.ca](mailto:Mike.Shantz@ec.gc.ca)



# Questions / Discussion



•Rainy R. at Manitou Rapids, L. Grim, July 2005