



CAMBRIA GORDON

STRATEGIC EXPERTISE IN THE NORTHWEST

SCIENCE ■ TECHNICAL ■ ENVIRONMENTAL MANAGEMENT ■ GRAPHIC MEDIA

MEMORANDUM

TO:
To File

FROM:
Cambria Gordon Ltd.

ORGANIZATION:

DATE:
February 5, 2009

SUBJECT:
Trudel Creek Weighted Usable Area Curves

The following memo summarizes the results of the Weighted Usable Area (WUA) analysis which was completed for the Trudel Creek Effects Analysis for the Taltson Hydroelectric Expansion Project.

The fish species for which habitat modeling was carried out were lake whitefish (*Coregonus clupeaformis*), northern pike (*Esox lucius*), and walleye (*Sander vitreus*). WUA's were calculated for both the riverine and lacustrine sections of Trudel Creek.

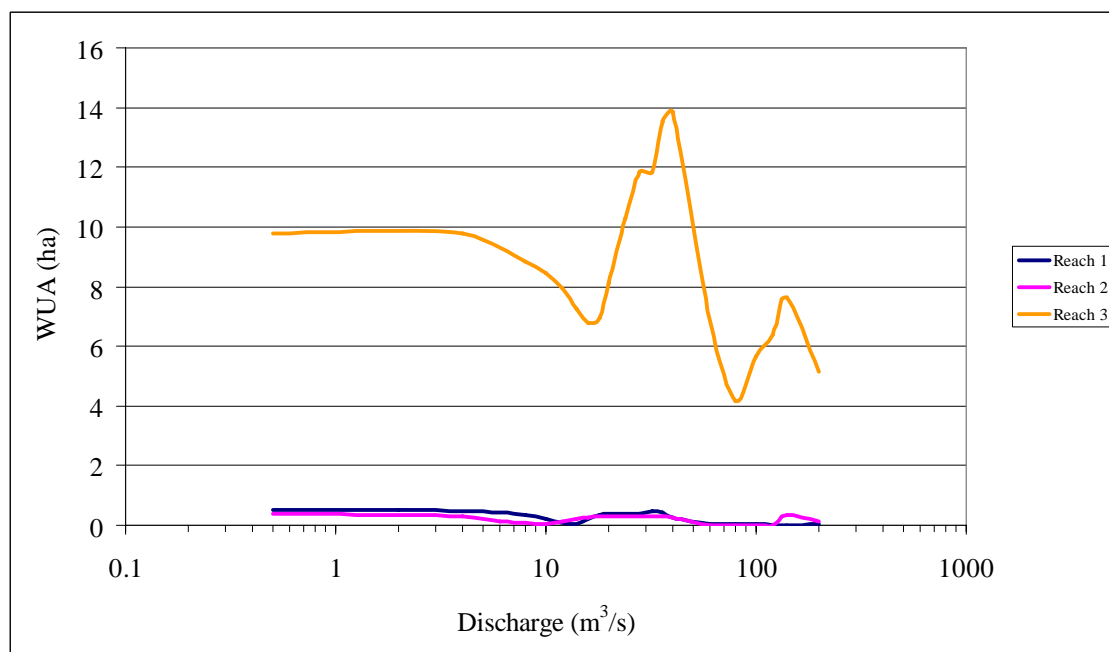


Figure 1 - Northern Pike Spawning WUA Curve for Riverine Habitats

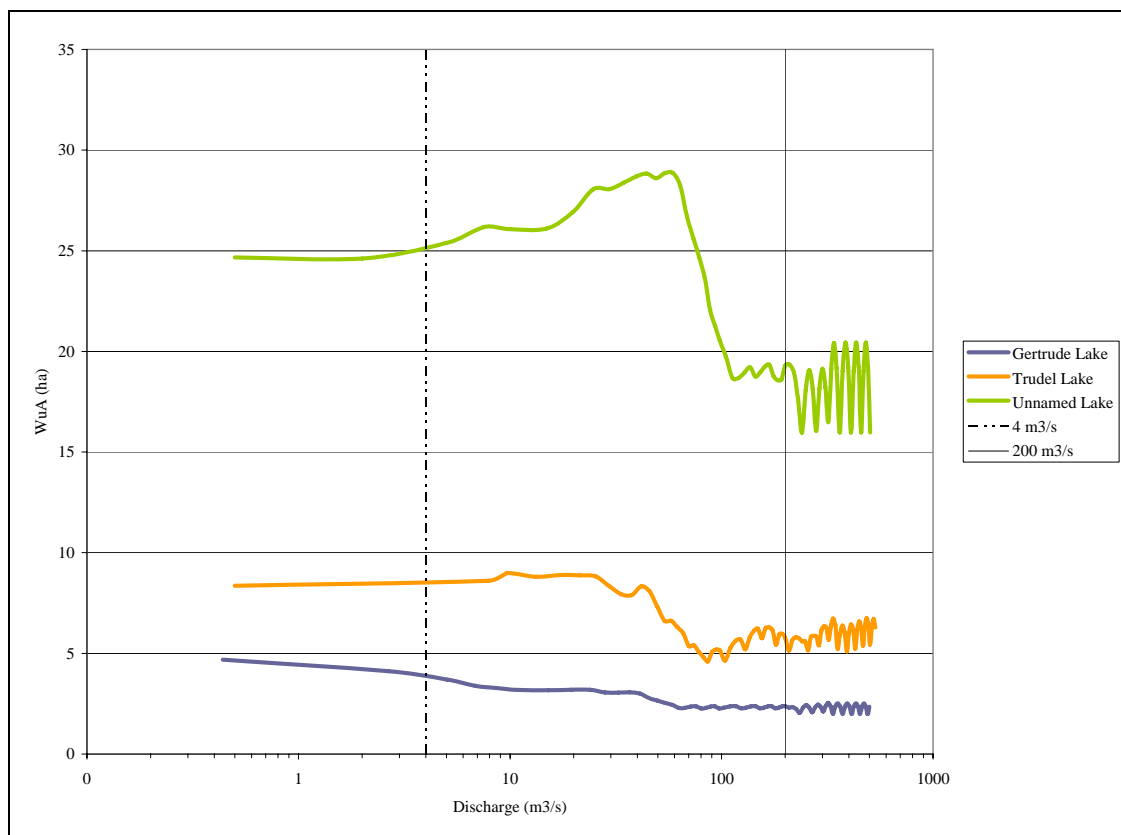


Figure 2 - Northern Pike Spawning WUA Curve for Lacustrine Habitats.

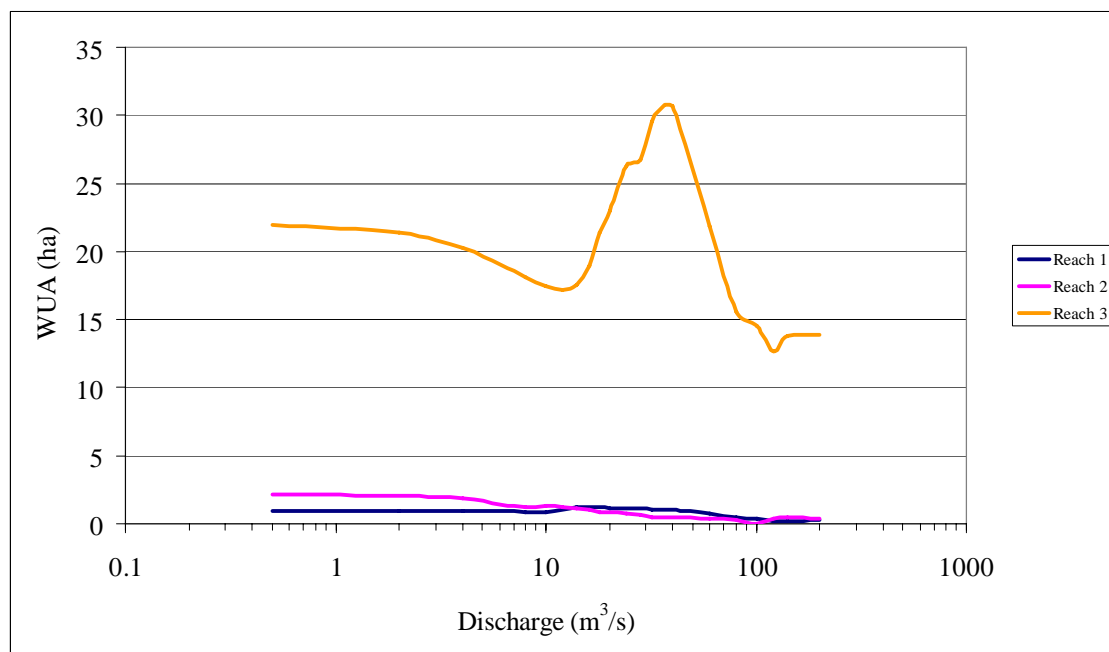


Figure 3 - Northern Pike Juvenile Rearing WUA Curve for Riverine Habitats

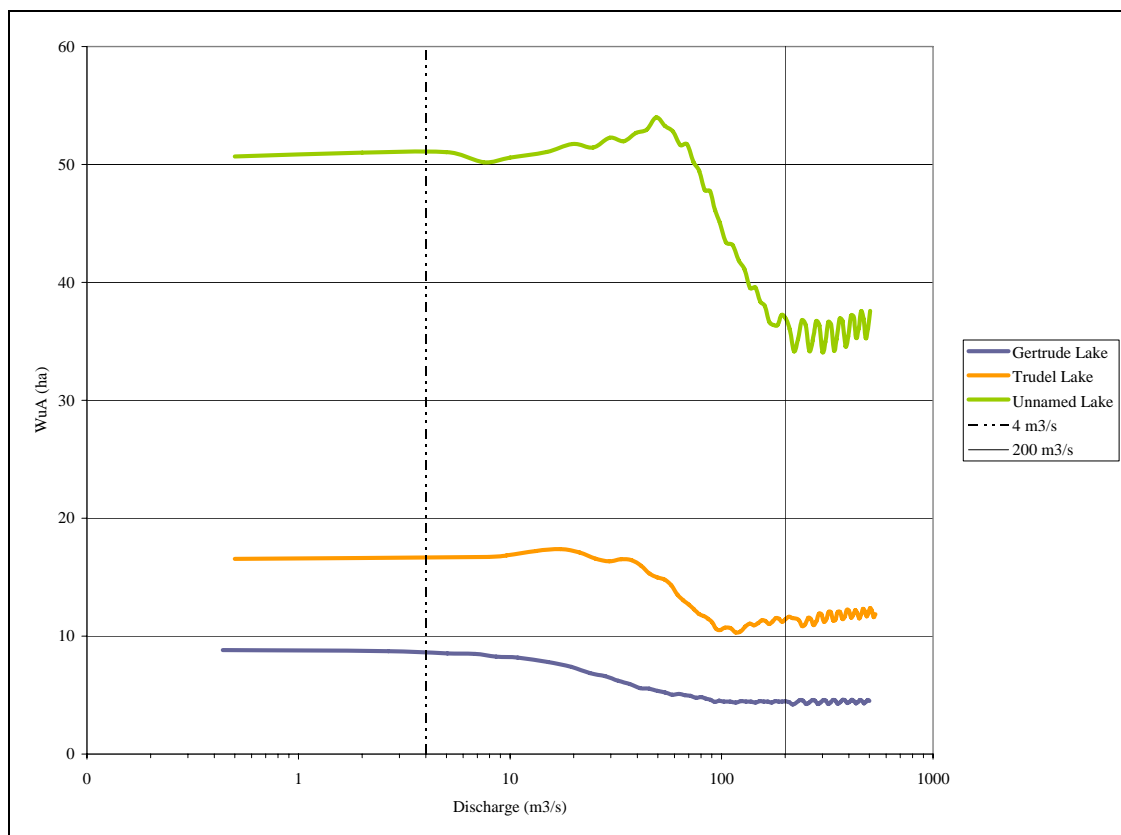


Figure 4 - Northern Pike Juvenile Rearing WUA Curve for Lacustrine Habitats

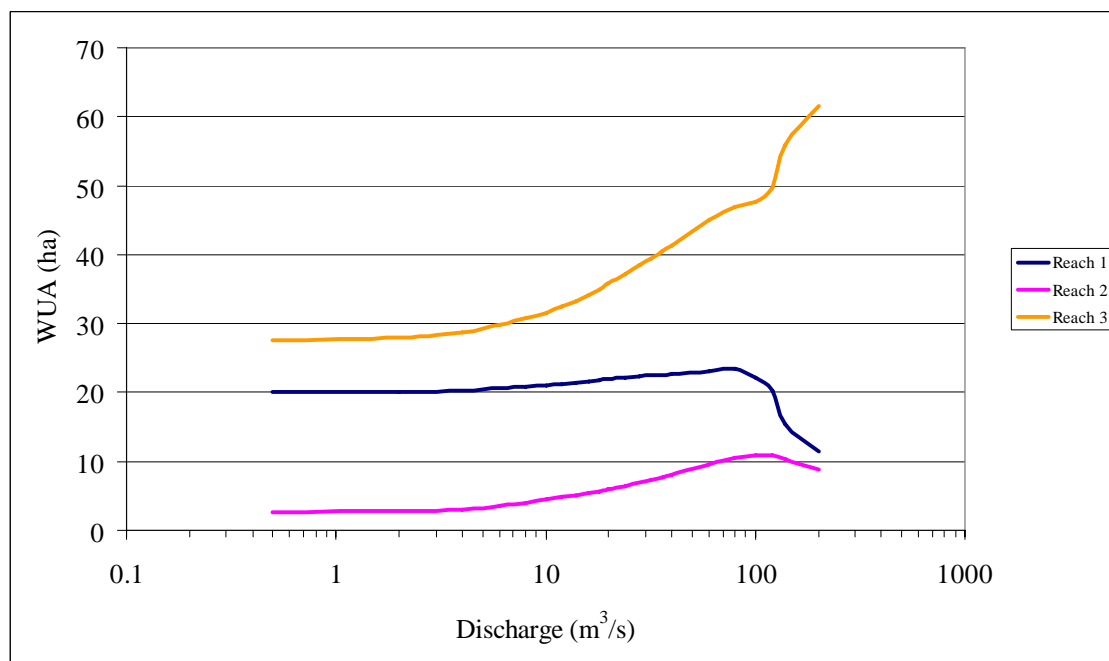


Figure 5 - Lake Whitefish Juvenile Rearing WUA Curve for Riverine Habitats

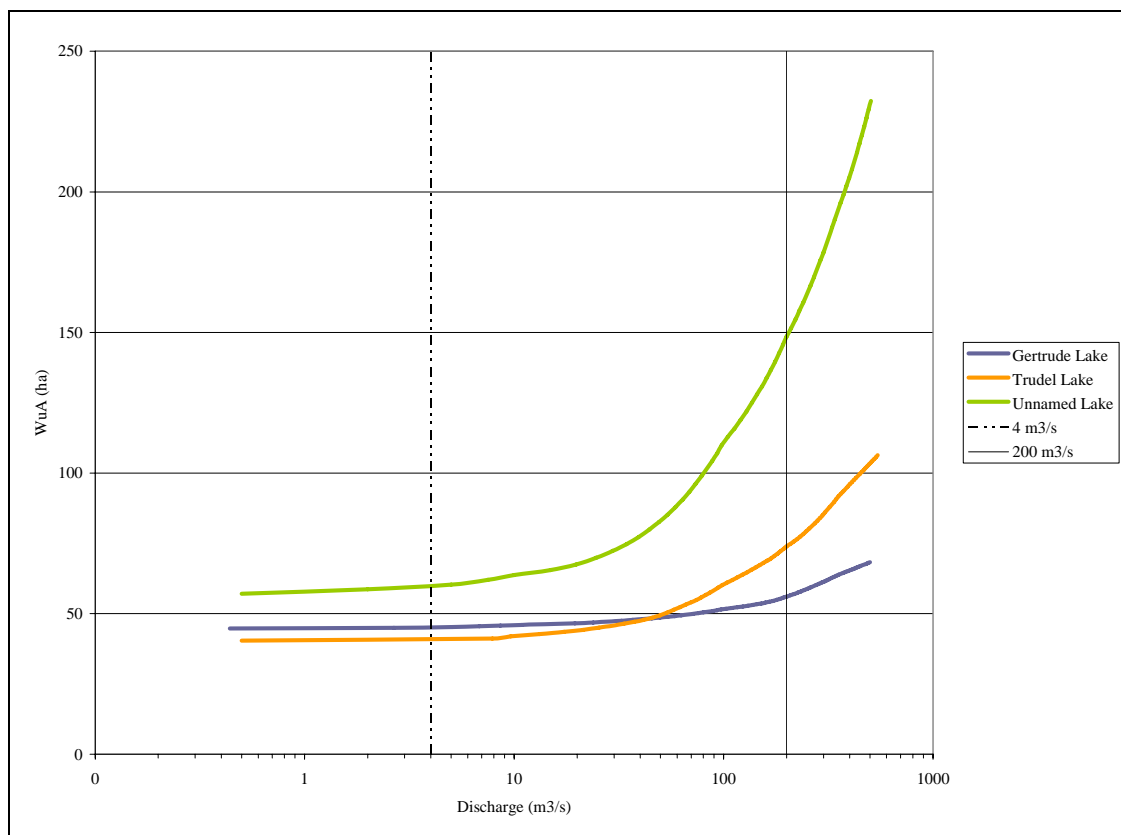


Figure 6 - Lake Whitefish Juvenile Rearing WUA Curve for Lacustrine Habitats

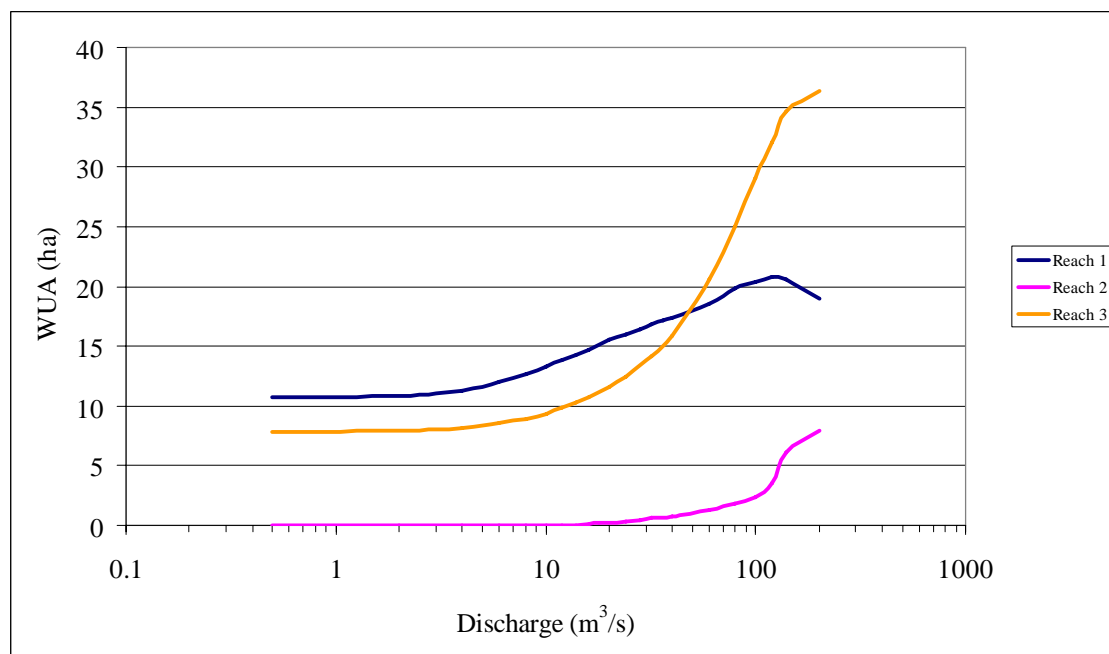


Figure 7 - Lake Whitefish Adult Rearing WUA Curve for Riverine Habitats

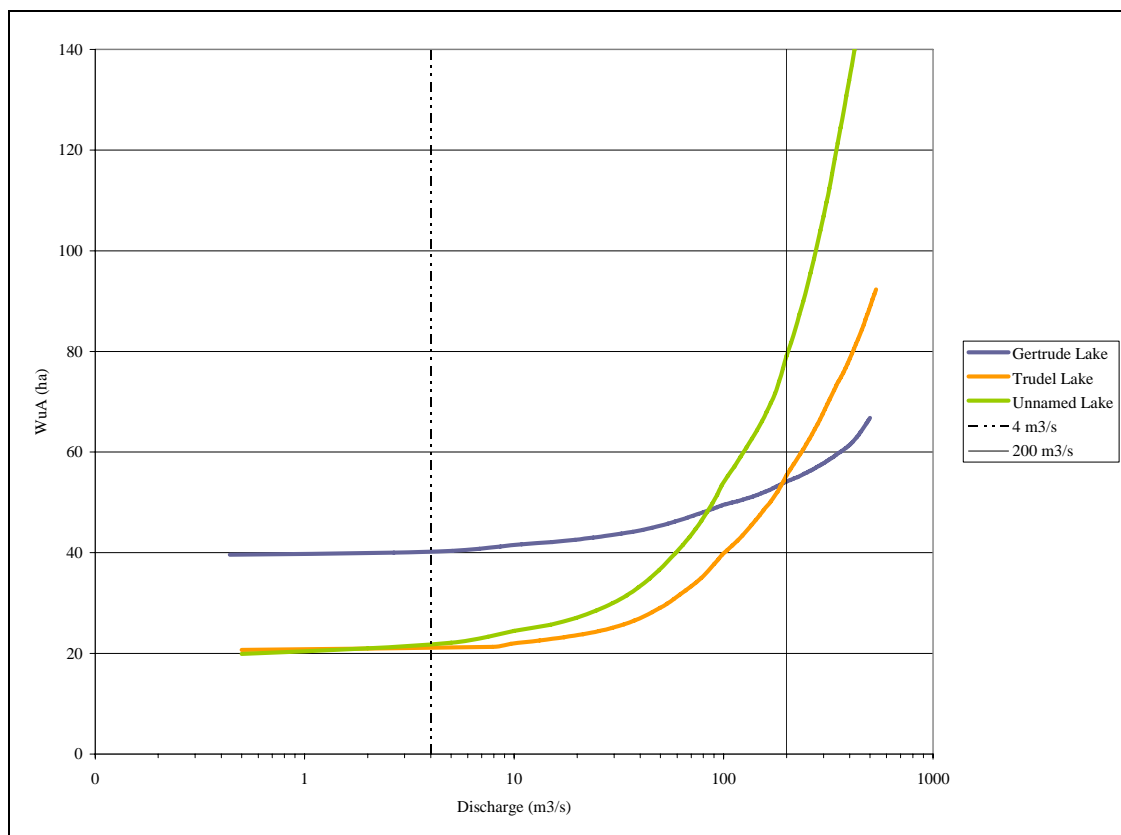


Figure 8 - Lake Whitefish Adult Rearing WUA Curve for Lacustrine Habitats

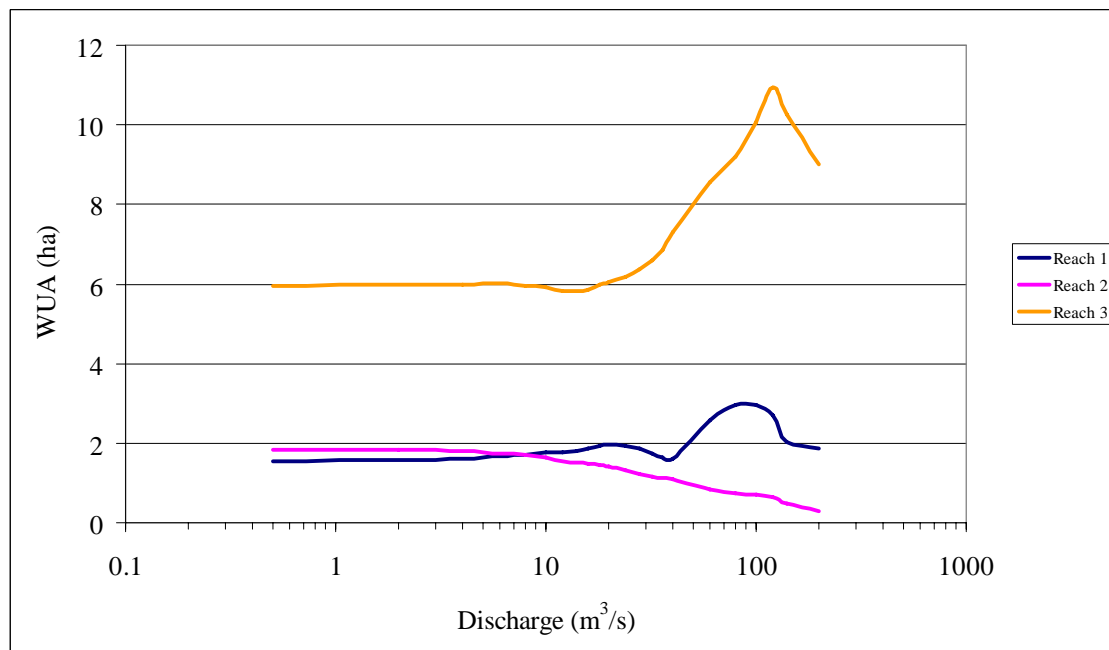


Figure 9 - Lake Whitefish Spawning WUA Curve for Riverine Habitats

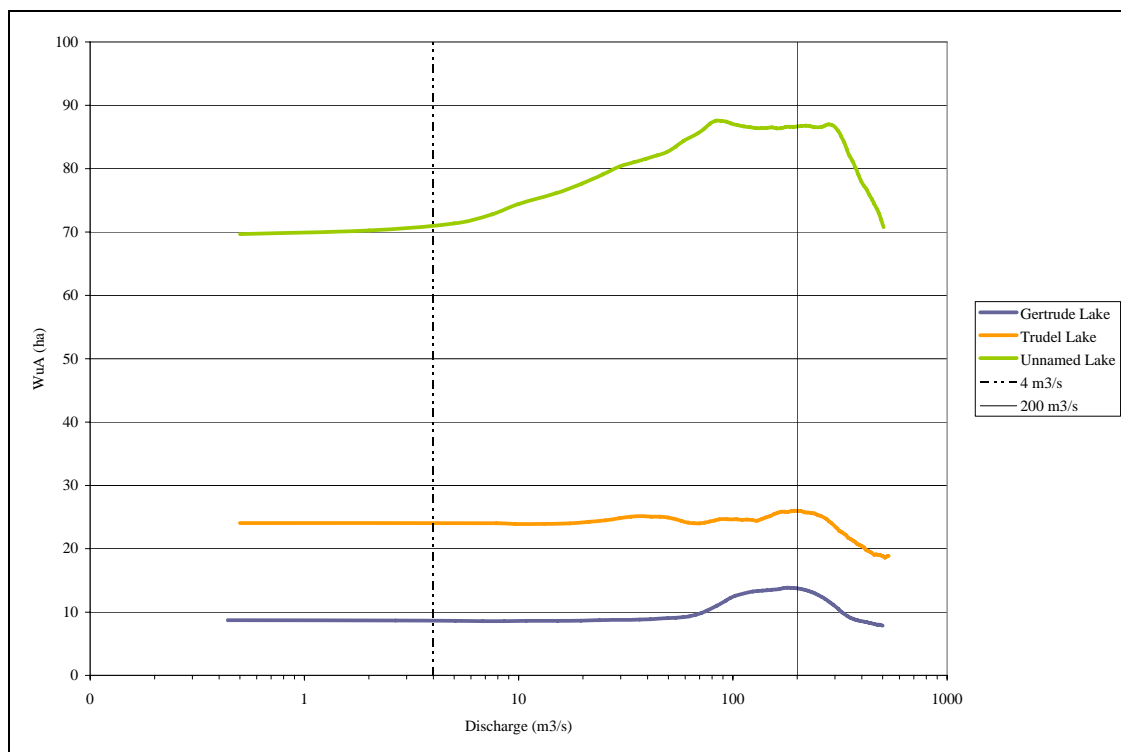


Figure 10 - Lake Whitefish Spawning WUA Curve for Lacustrine Habitats

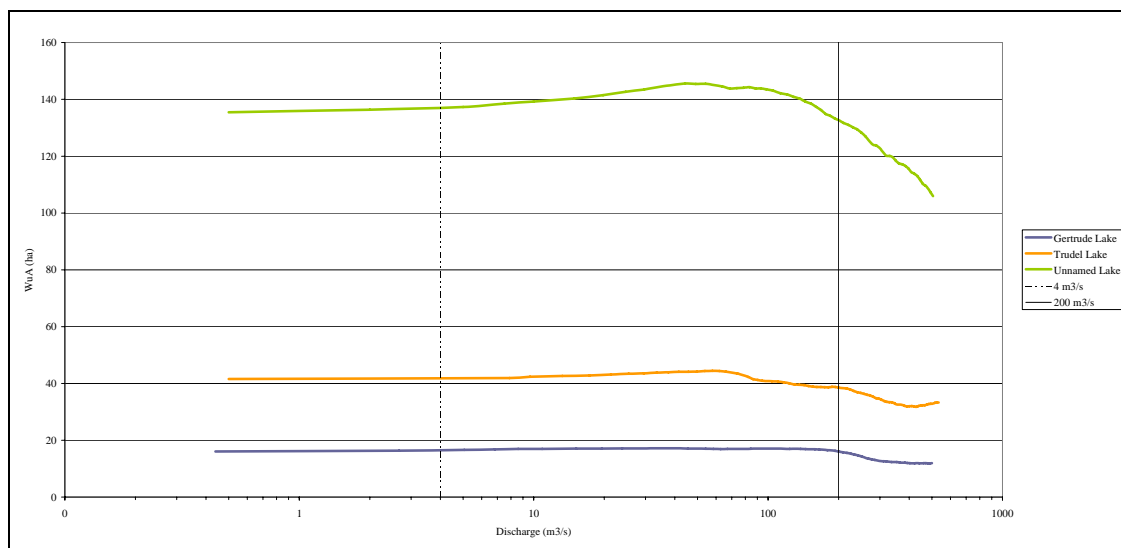


Figure 11- Walleye Spawning WUA Curve for Lacustrine Habitat.