



North Bay sits on the north wall of this rift valley and Lake Nipissing covers it!

The Grenville Orogeny (a mountain building event) occurred about 1.1 billion years ago causing mountains higher than the Himalayas to form. They have been worn away to stumps now leaving rocks that were reformed 31 kilometres below the surface of that time.

This rift valley split the Canadian Shield

From Wikipedia

"This rift valley was formed...452 mya (million years ago)... when the Earth's crust moved downward about a kilometer between two major fault zones known as the Mattawa and Petawawa faults. are still active

These grabens were reactivated during the breakup of supercontinent Pangaea some 150 mya.

This great gash provided a spillway for the glacial meltwaters from the upper Great Lakes basin to Atlantic Ocean in during last retreat of the glaciers.

The Champlain Sea Salt Water flooded into valley