

## **Purpose Of The Watershed Study** (Excerpts copied from the Flood Reduction Master Plan)

**Purpose:** To identify the severity and frequency of flooding, and associated damages within each catchment area, and identify and assess alternative and cost effective solutions that can be technically implemented, for alleviating existing problems and potential problems from future development. Assess and rank solutions in terms of flood reduction, erosion and water quality effectiveness.

**Inputs:** Field work information, including flow monitoring, rainfall monitoring, digital terrain modeling, storm sewer system survey, dye testing, and soil and groundwater investigation

Flood Reduction Master Plan Report, UMA (April 2005)

Background information from ORCA and area townships and population and land use information

July 2004 Peterborough Flood Study – by the MNR in partnership with ORCA

**Activities:** Each of the studies will comprise the following steps:

Coordination and Environmental Assessment

Public Consultation

Detailed Flood Reduction Studies

Gather Information and Review

Develop Models

Assess Existing Conditions

Identify and Evaluate Alternative Solutions

Develop Preliminary Design Concepts

Develop Implementation Plans and Prepare Flood Reduction EA Study Report

**Deliverables:** A calibrated model of the catchment

An Environmental Study Report (ESR) that includes an Executive Summary, the results of the study, preliminary designs and drawings, supporting calculations, all relevant correspondence, and any future approvals required to implement the solution(s). File the ESR in the public record for the Class EA.

Note: More detail on this topic can be found in the Flood Reduction Master Plan Page 47.