

FLOOD ACTIVITY/EMERGENCY MANUAL

City of Winnipeg

Winnipeg, Manitoba



Project Description

KGS Group was retained along with UMA Engineering to prepare a comprehensive Flood Emergency Manual for the City of Winnipeg Water and Waste Department. The Manual features a computerized system for displaying and reporting on Flood Activities; Operational Protocols; and Emergency Response Coordination at various river stages throughout the City. Work areas of flood fighting include:

- Primary Line of Defence (PLD) and Secondary Dike Systems
- Sewer system operation and controls including operation of gates; flood pump stations; lift stations; storm retention basins; pollution control centres; temporary pumping; sewer system isolation; manhole sealing
- Natural Drainage Channels to prevent overland flooding from internal drainage, and river backup
- River and Sewer Hydraulics using sophisticated computer models such as HEC-RAS and SWMM
- Critical Facilities