

# Pre-Emptive WNV Mosquito Control In Catch Basins: Identification of Triggers and Priority Areas for Larval Treatment

BC Provincial West Nile Virus and Mosquito Control Meeting, March 06, 2006



# BACKGROUND

- Regional WNV Mosquito Working Group
  - Formed in late 2003;
  - Reports to Regional Engineers Advisory Committee;
  - Includes representatives from Vancouver Coastal Health Authority (VCHA), Fraser Health Authority (FHA) and BCCDC;
  - Developed regional surface water and catch basin policies, regional mapping and communication plan;



# Pre-emptive Larval Treatment of Catch Basins

- Lack of clear triggers to undertake pre-emptive larval treatment of catchbasins;
- Inconsistent pre-emptive larval treatment approach undertaken by local governments in the region during 2005;
- Concerns regarding due diligence and liability;



# Project Administration and Funding

- Steering Committee established to prepare RfP, consultant selection and communication process;
- All of the local governments in this region contributed towards the project;
- Contract administration managed through City of Surrey.



# Project Objectives

- Undertake literature review of management practices of catch basin mosquitoes in comparable biogeoclimatic conditions;
- Derive appropriate catch basin triggers
  - Review catch basin data and sampling methodologies;
  - Develop statistical method to monitor catch basins;



# Project Objectives

- Investigate threshold parameters (date/degree days, abundance/dominance abundance of vector mosquitoes....);
- Provide consideration to four relative risk levels defined by BC Ministry of Health Services and BCCDC;



# Project Objectives

- Define priority areas
  - Characterize priority catch basins;
  - Identify intrinsic/extrinsic parameters of catch basins (sludge presence, organic loading, adjacent landscape type, bird roost proximity) which promote vector mosquito productivity.



# Project Status

- Project awarded to GDG Environment Ltd. and Morrow BioScience Ltd. In mid-January 2006:
- Interim report just received from the consulting team and is being reviewed by the Steering Committee;
- Project completion date is mid-April 2006.



Questions ?

