

SACKVILLE RIVERS



FLOOD MITIGATION OPTIONS  
PER CBCL – SACKVILLE RIVERS  
FLOODPLAIN STUDY 2017

A Review by the Sackville  
Rivers Association

**Item 10.3.2**



# CBCL LIMITED SACKVILLE RIVERS FLOODPLAIN STUDY

## Recommendations:

- Prevent/reduce future development in flood prone areas by altering planning and zoning by-laws
- In future, use “*Best Management*” and “*Low Impact*” development practices
- Build Flood Protection Infrastructure

# PREVENTING FUTURE DEVELOPMENT IN FLOOD PRONE AREAS BY PLANNING AND ZONING BY-LAWS

## FLOODPLAIN ZONING

- Designate revised floodplain areas
- Implement zoning regulations that restrict development in these high-risk areas

## COMPREHENSIVE PLANNING

- Integrate floodplain management into broader comprehensive planning efforts, considering not only flood risk but also environmental conservation

## INSPECTION AND COMPLIANCE

- Ensure strict enforcement of zoning and building regulations
- Implement penalties for non-compliance with floodplain regulations

# BEST MANAGEMENT PRACTICES AND LOW IMPACT DEVELOPMENT

## KEEP IT NATURAL!

Keep proposed building site as undisturbed as possible:

- Retain as much vegetation and elevation as possible
- Build parking garages and/or underground parking to eliminate large hard surface parking lots that contribute to increased sedimentation

## ENFORCEMENT

- Ensure strict enforcement of zoning and building regulations
- Implement penalties for non-compliance with floodplain regulations

## EDUCATION

- Through education, raise awareness among the community about the importance of stormwater runoff and encourage responsible practices

# FLOOD PROTECTION INFRASTRUCTURE

## INCREASING CHANNEL CAPACITY AND BERMS

### *Channeling a river:*

- *Destroys habitat*
- *Increases water velocity*
- *Increases erosion*

### *Building Berms:*

- *Temporary relief*
- *Increase potential impacts of the floods by altering flood patterns*
- *Berm Breach → Worsens flood effects*

## PURCHASING PROPERTIES

Whenever commercial and residential properties are removed from the floodplain it is a win for the environment.

Benefits include:

- Floodplain is returned to a more natural state allowing better mitigation of flooding
- Reduction of runoff
- Increased stormwater infiltration; reducing flooding

## CULVERTS TO BRIDGES

Upgrading a culvert to a bridge:

- Improves fish habitat
- Facilitates fish passage
- Removes throttle point in river and can help improve flood flows