



# **Proposed Preventative Plumbing Subsidy Program**

**Policy Committee Meeting**

**July 14, 2010**

Presented by

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# Agenda

1. Background
2. Why Basements flood?
3. How to protect from flooding?
4. Proposed Program Details
  - Objectives
  - Eligibility criteria
  - Funding options
  - Application process
5. Summary
6. Questions



## Background

- Councilor Joscelyne Landry-Altmann initiative
- Preventative Plumbing Devices include:
  - Sump pump with external discharge
  - Backwater valve
  - Or both
- Program is beneficial for both the City and owners wishing to protect their properties from flooding



# Why Do Basements Flood?



- leak or crack in basement walls
- poor surface drainage
- failure of the weeping tile system
- eavestroughs and downspouts
- blocked sanitary sewer lateral
- back-up of wastewater in the sanitary sewer system

Source: CMHC



# How to Protect Basement From Flooding?



- Disconnect all downspouts and weeping tiles from sanitary sewer system
- Provide positive drainage away from home
- Install sump pump with external discharge
- Install backwater valve



# Program Objectives



Financially assist property owners wishing to install protective devices to protect their property from potential flooding



## Eligibility Criteria



- During 2010, priority will be given to property owners who suffered flooding in 2009
- Starting in 2011, program will be open to all properties located in potential flood prone areas



# Proposed Funding Options



Option Item	Option 1 Status Quo	Option 2(a) 50% Subsidy to max of	Option 2(b) 75% Subsidy to max of	Option 3(a) 50% Subsidy to max of	Option 3 (b) 75% Subsidy to max of
Back water Valve (BWV)	N/A	\$1,000	\$1600	\$1000	\$1,600
Sump Pump (SP)	N/A	\$1250	\$2000	\$1,250	\$2,000
Combined (BWV+ SP)	N/A	\$2250	\$3600	\$2,250	\$3,600
Yearly budget	\$10,000 for education plan	\$350,000	\$350,000	\$175,000	\$175,000

Number of Households who may benefit from each option

Backwater Valve (BWV)	N/A	350	219	175	109
Sump pump (SP)	N/A	280	175	140	88
Combined (BWV+ SP)	N/A	156	97	78	49

Proposed Preventative Plumbing Subsidy Program





# Application Process

- Step 1 Obtain Eligibility Criteria
- Step 2 Determine Protective Plumbing Requirements
- Step 3 Obtain Building Permit (plumbing)
- Step 4 Protective Plumbing Installed
- Step 5 Work Inspection (Building Services)
- Step 6 Payment of Contractor
- Step 7 Application for Funding Submitted
- Step 8 City Review of Application
- Step 9 Payment of Approved Application



## Where and How to Apply ?

- Information package can be obtained at:
  - TDS 3<sup>rd</sup> Floor Engineering Department, or
  - Any Citizen's Centres, or
  - Download from City's Website
- Send application to:
  - Preventative Plumbing Subsidy Program*
  - City of Greater Sudbury*
  - TDS 3<sup>rd</sup> Floor Engineering Department*
  - 200 Brady Street P3A 5P3*
- For more information, please call : 674-4455 X 4235



# Summary



1. Background
2. Why basements flood?
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## Conclusion



This program is **beneficial** to both:

- **Property owners**, who suffered damages due to 2009 flooding and to those who are wishing to protect their property
- **City**, by reducing inflow / infiltration and save in operating and maintenance costs

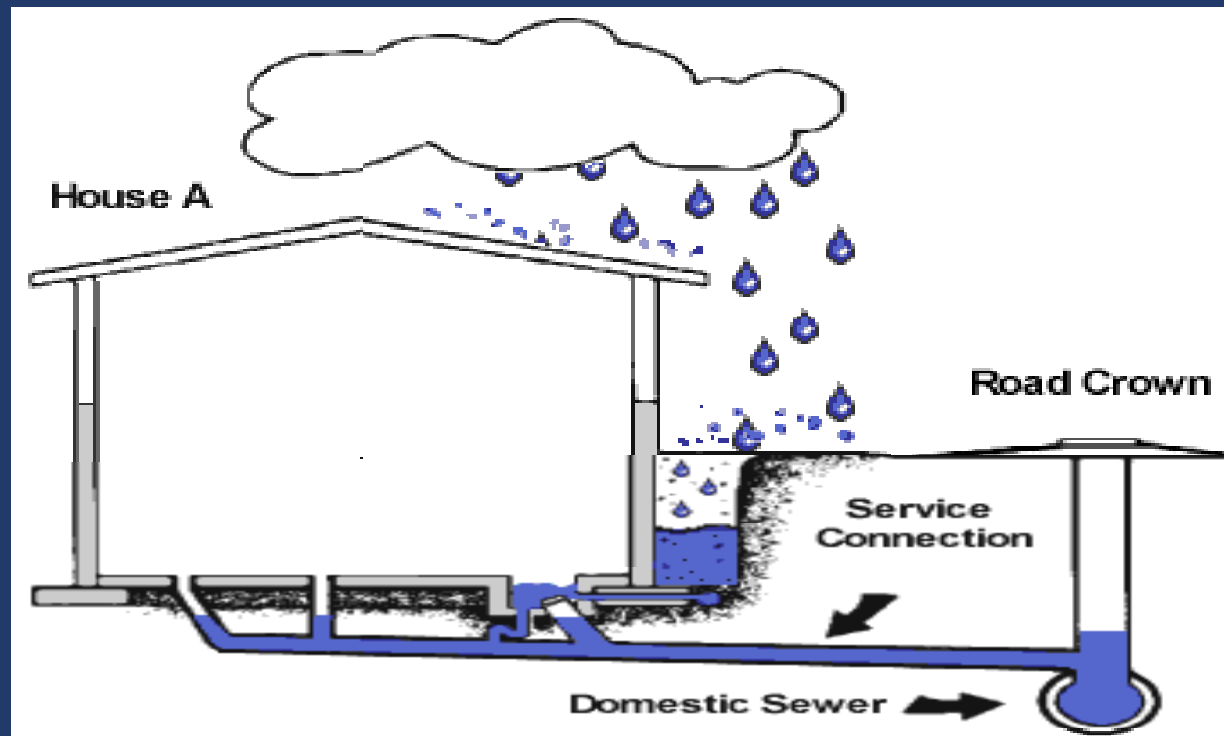


# Thank you for your support

## Questions



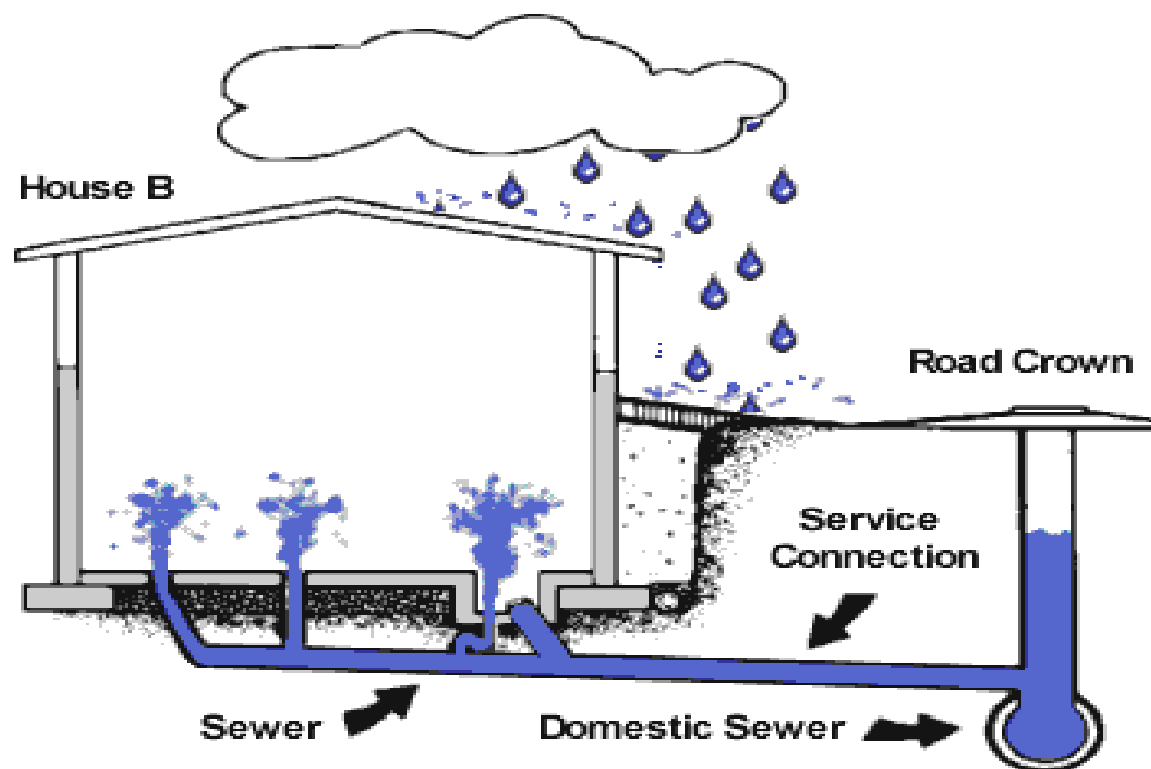
## Rainwater... to weeping tile... to domestic sewer



Source: EnerMac



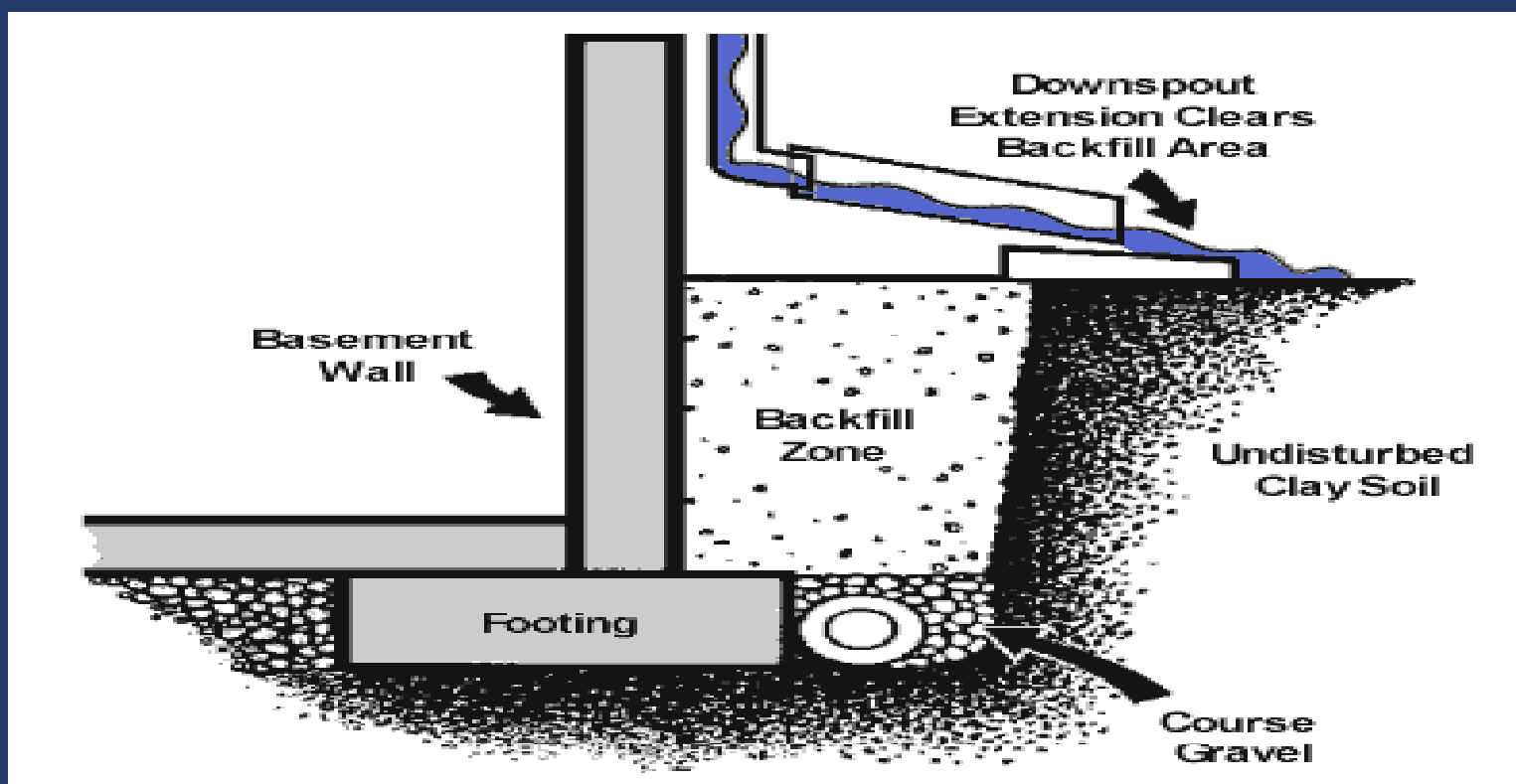
# Sewer Back-up



Source: EnerMac



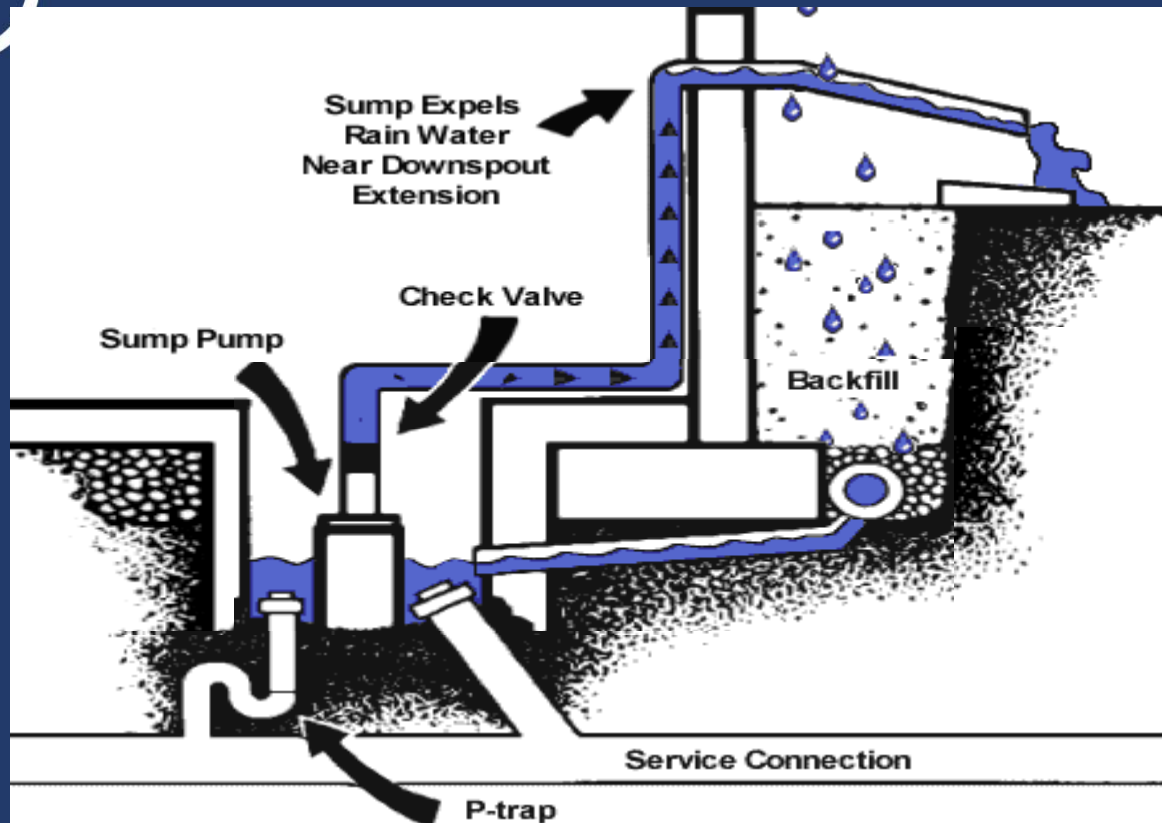
## Correct Downspout Extension with Splash Pad







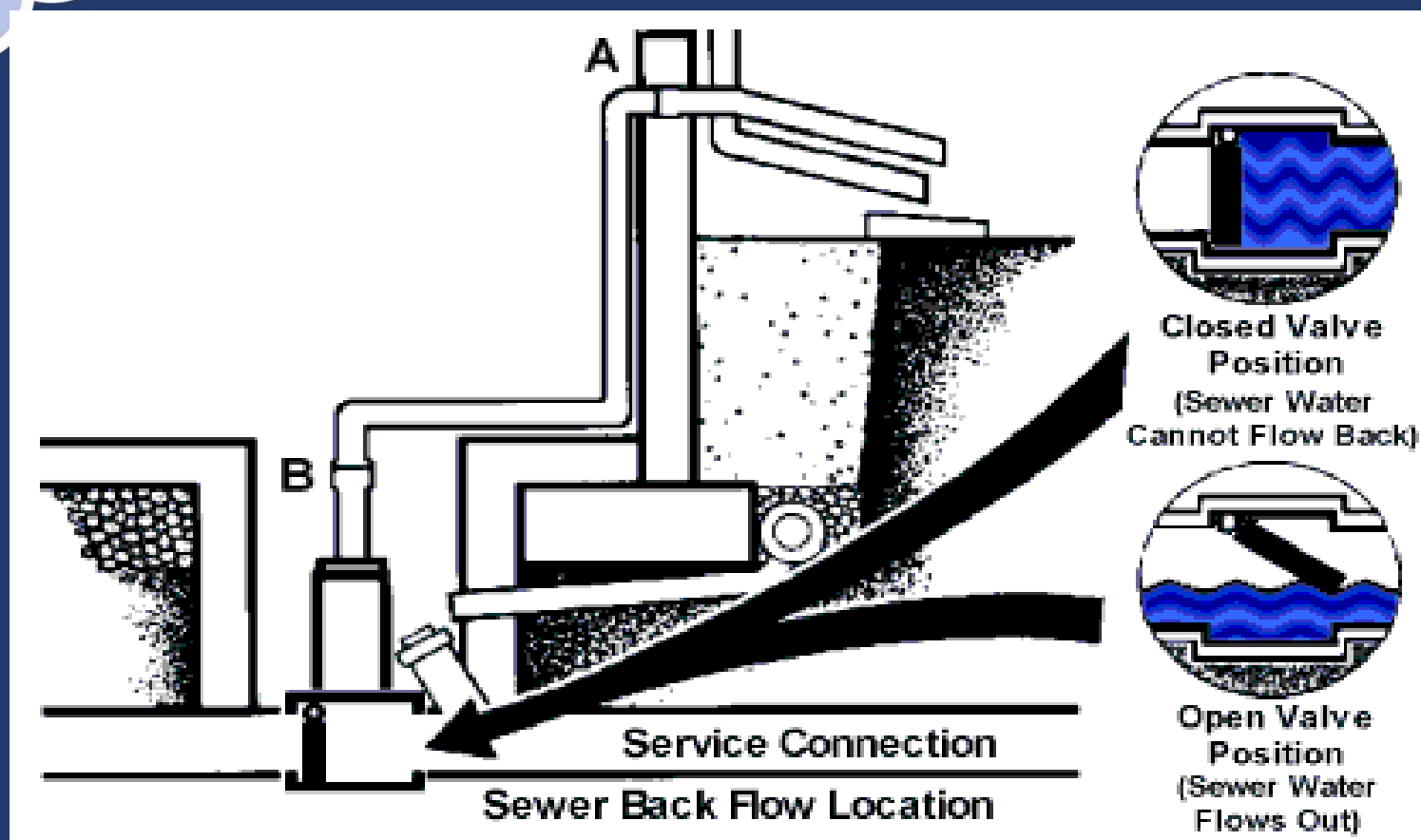
## Typical Sump Pit With Pump



Source: EnerMac

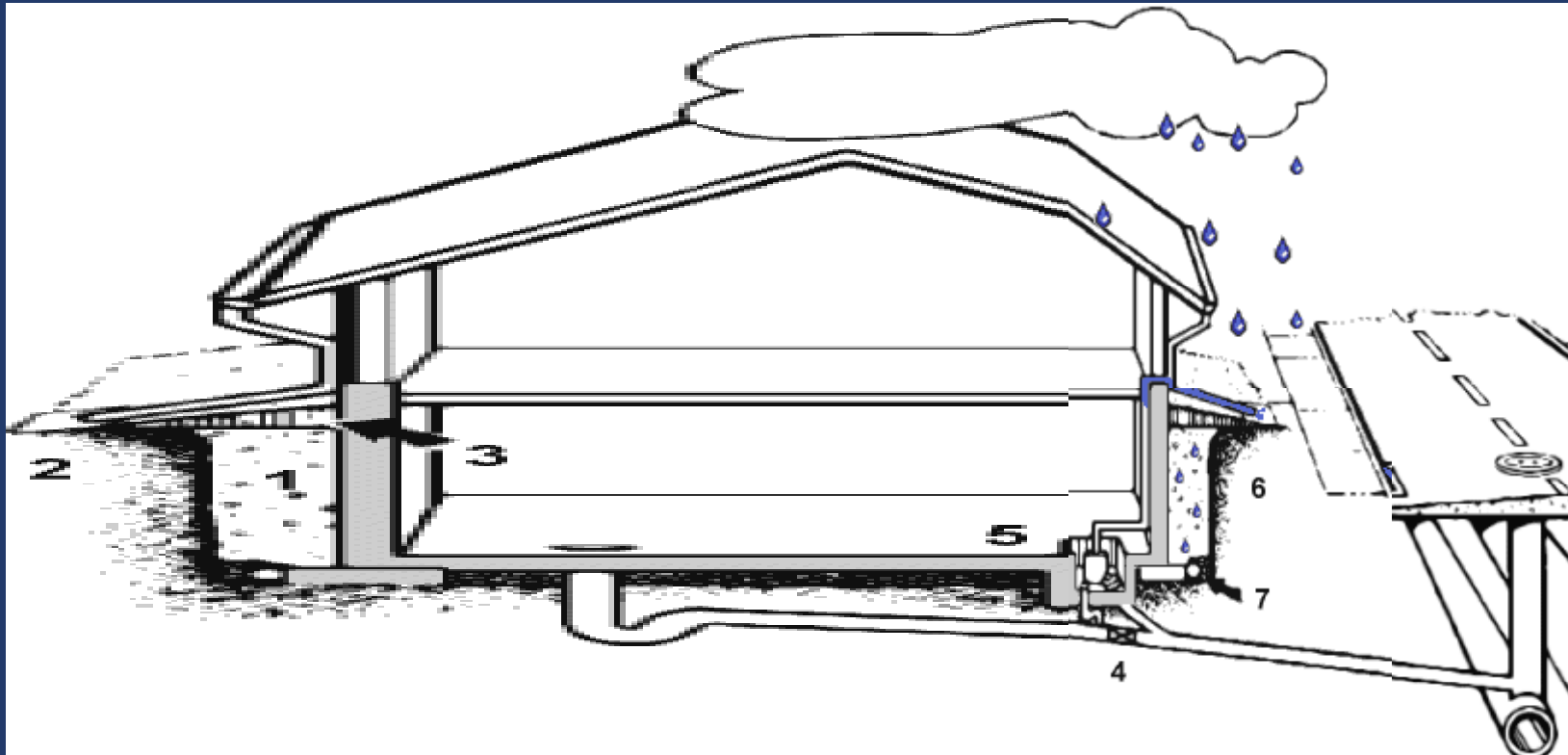


## Typical backwater valve operation





## Good Flood Proofing Practices



Source: EnerMac