

Drainage Services Flood Prevention Program


**Bearspaw
Community Consultation
May 8, 2006**



How Did We Get Here?

- **Major flooding in July, 2004**
- **Flood prevention becomes top priority**
- **Commitment to reduce flood risk and public education**
- **43 at risk neighbourhoods identified**
- **15 hardest hit – studies and planning in 2004/05**
- **28 others – studies and planning in 2005/06**

How Did We Get Here?

- New  program launched in May/05
- Home Flood Prevention Checkup;
Homeowners Guide to Flood Prevention
- Public education (print, TV, and on the web)
- Education workshops: backwater valves and sump pumps
- Backwater valve subsidy program



Current Status

- **\$146M in flood prevention improvements recommended to City Council on April 25**
- **Council requested report on alternative methods of funding. To be discussed in July.**
- **Public hearing on selected funding alternative & 2007 sewer rates set for September 26**



Today's Meeting

- 1. Present engineering findings**
- 2. Discussion implementation plan recommendations**
- 3. Get your input and feedback**

The image features a vertical banner on the left side. The top portion of the banner shows a photograph of a modern building with a large, triangular, glass-enclosed structure, likely a library or community center, situated behind a body of water. Below the photograph, the text "City of Edmonton" is written vertically in a large, white, serif font. The background of the entire slide is a solid dark blue color.

After Today's Meeting

- 1. Summarize and share input**
- 2. Incorporate input into planning**
- 3. Report progress**
- 4. Involve community in development of design concepts**
- 5. Keep communities informed as work is completed**

July 11, 2004 Flooding



July 11, 2004 Flooding



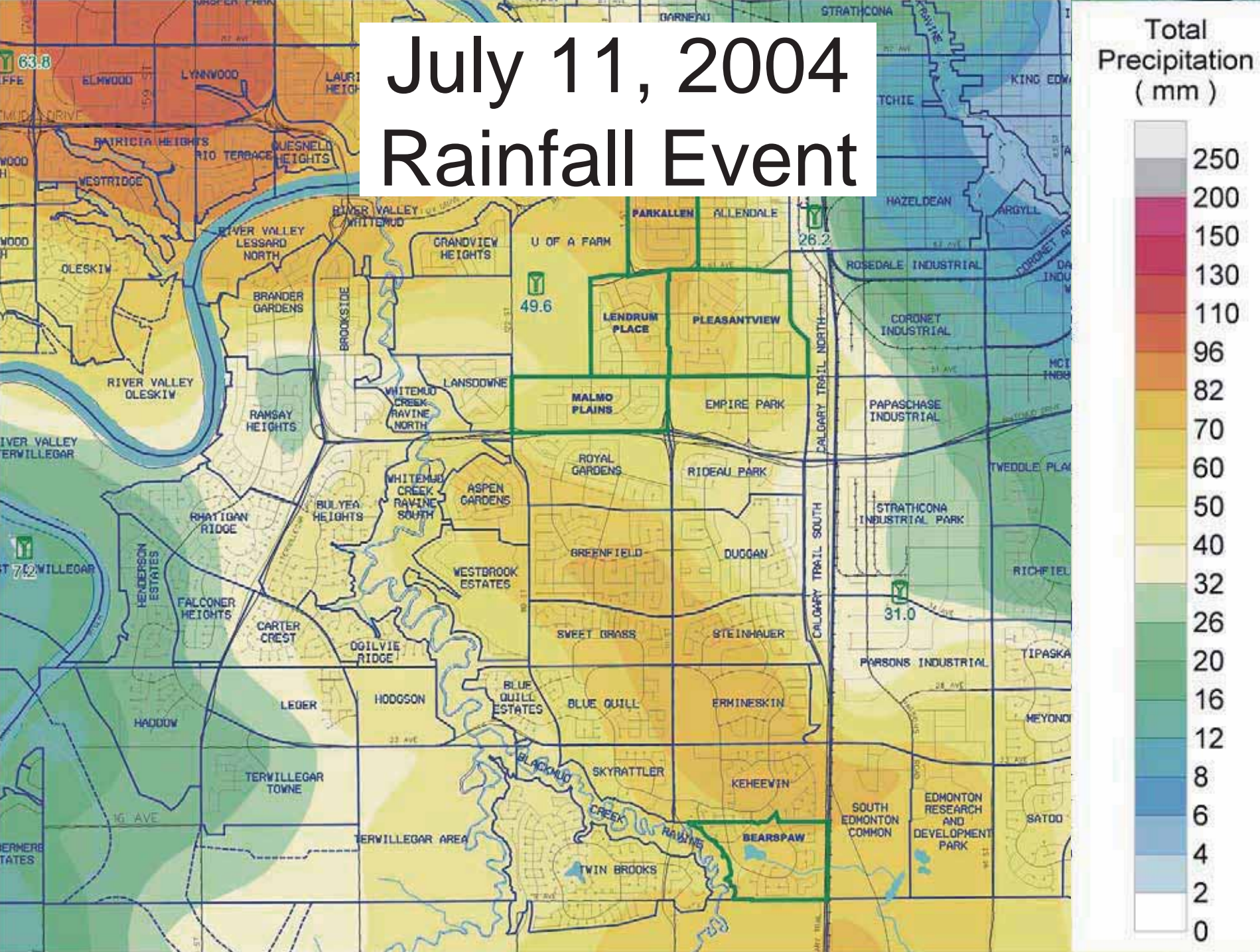
July 11, 2004 Flooding



Study Area



July 11, 2004 Rainfall Event

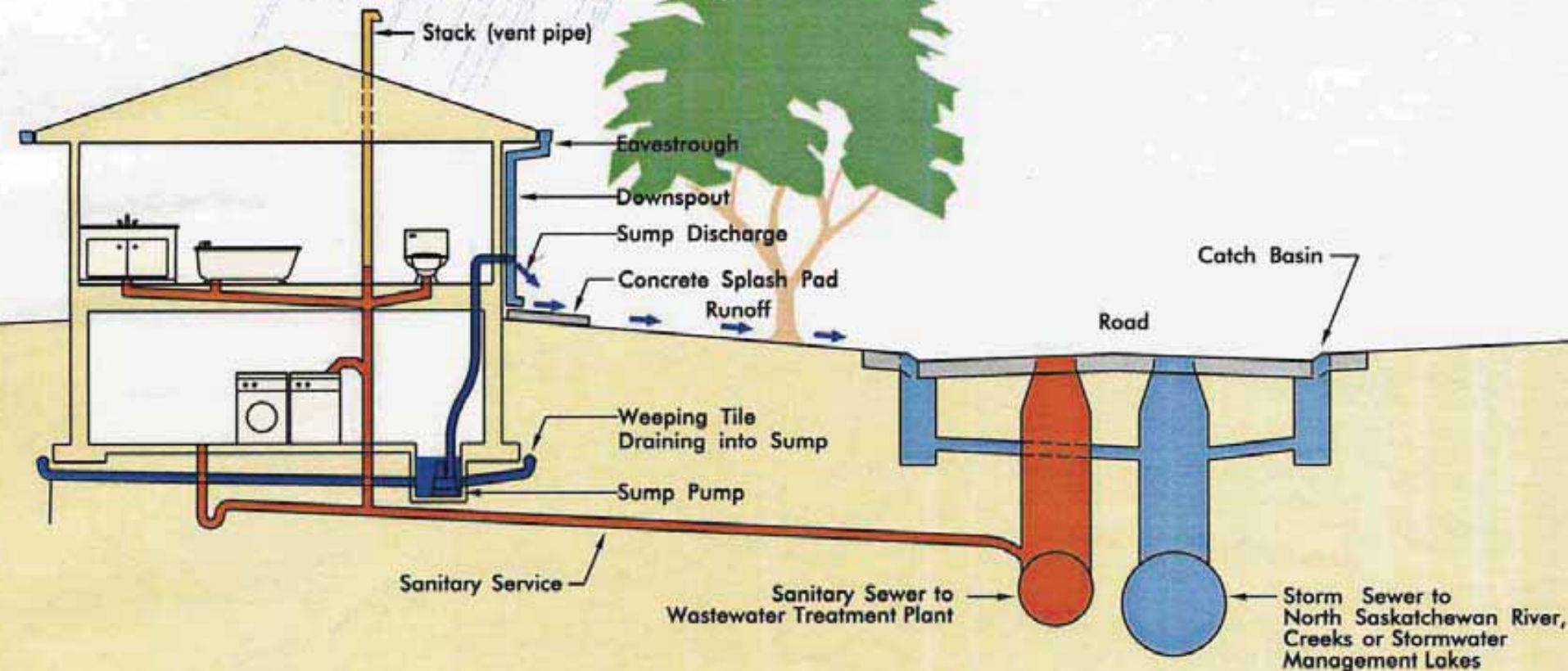


Basement Flooding

July, 2004



Typical New Home Servicing



Bearspaw Findings

- **Water volume exceeded capacity of storm sewer system**
- **Water volume ponded in low areas and could not flow to lake or creek**
- **Lake backed up contributing storm sewers**
- **Stormwater got into sanitary system**
 - manhole covers
 - cross-filtration from storm sewers
 - from weeping tiles and some roof drains
- **113 flooded basements reported**
(16 flooded prior to 2004)

Sanitary Sewer System Upgrades



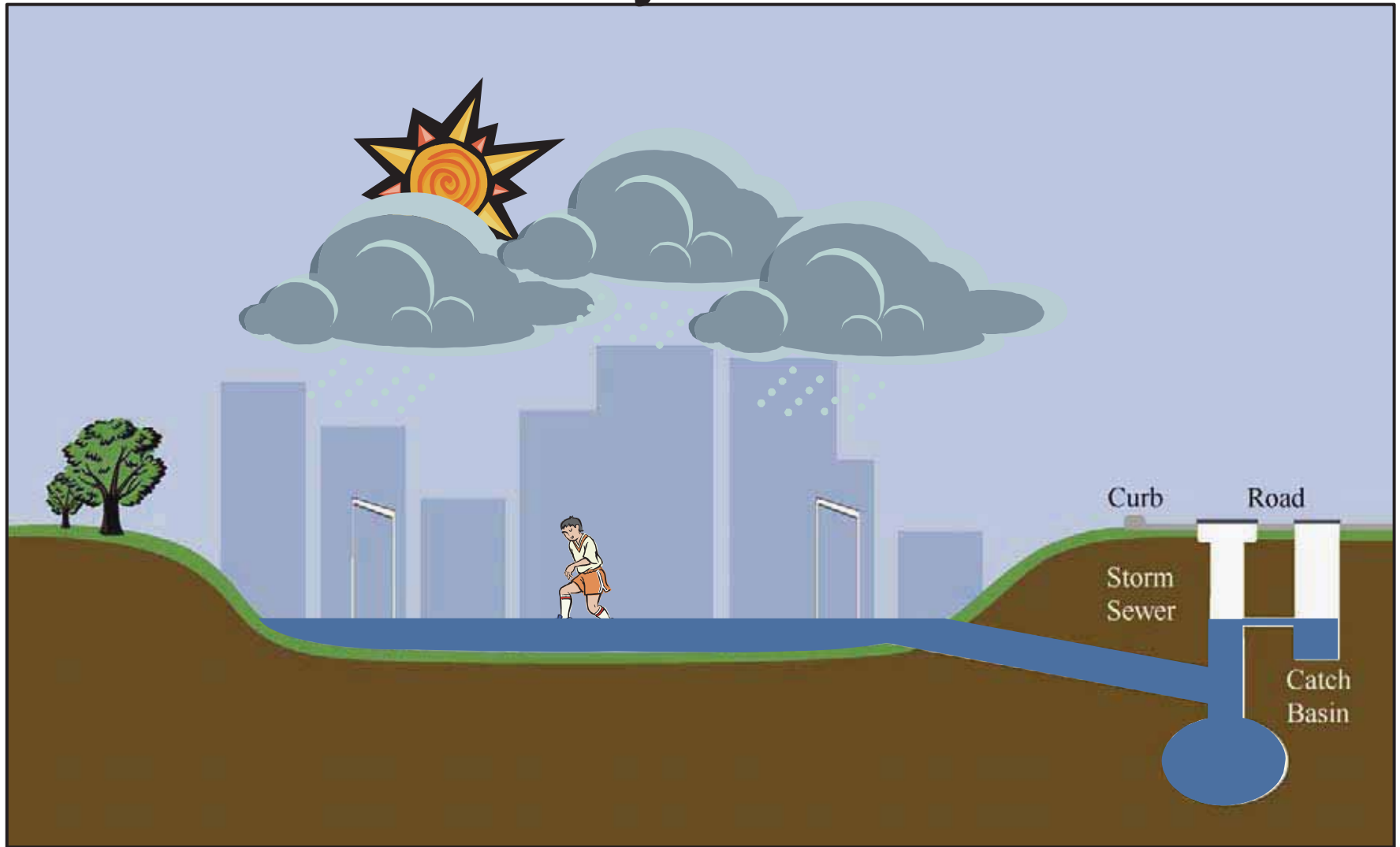
Storm Sewer System Upgrades



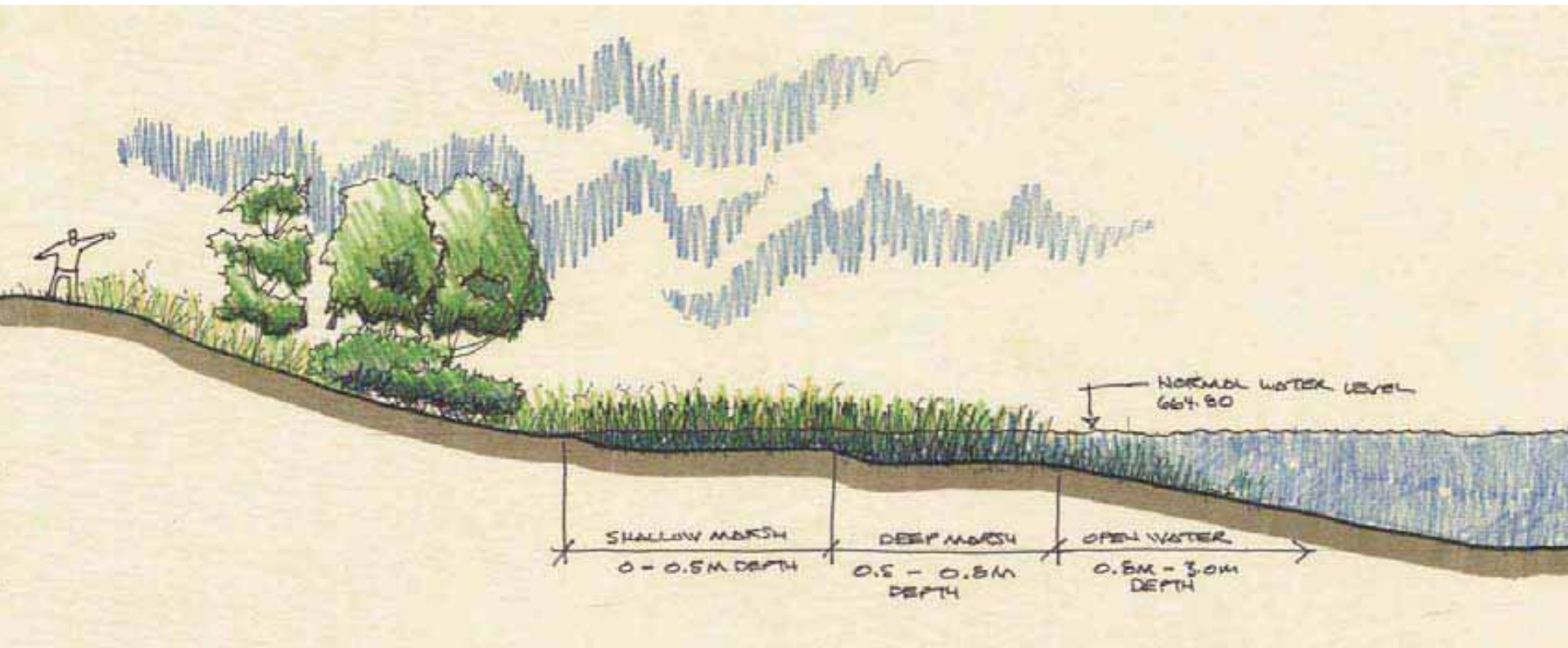
Bearspaw Lake Upgrades



How Do Dry Ponds Work?



Wetland



What Do Wet Lands Look Like?

City of Edmonton



What Do Wet Lands Look Like?

City of Edmonton



Example Interpretative Signage

City of Edmonton



The image features a vertical banner on the left side with the text "City of Edmonton" in a stylized font. The background of the banner shows a modern building with a glass facade and a large, triangular, lattice-like structure on top, situated next to a body of water.

City Wide Implementation Plan

- **Investing \$146 million in 43 communities over 10 years**
- **Focus on most critical needs first**
- **Consult/inform community and others on design and construction**

Bearspaw Upgrades

<u>Upgrade</u>	<u>Cost</u> (\$ million)	<u>Schedule</u>
• Sanitary Sewer Upgrades	\$1.6	Mid Term (2010 – 2015)
• Storm Sewer Upgrades	\$3.3	Mid Term (2010 – 2015)
• Lake Upgrades	\$9.4	Near Term (2006 – 2010)
Total :	\$14.3	



Recommendations for Homeowners

- **Install backwater prevention valve**
- **Improve lot grading to get surface water away from house**
- **Install/maintain adequate eavestroughs**
- **Channel downspout water to proper place**
- **Flood Prevention Checkup Program**
(for advice call: 944 – 7777)



What's Next

- **Develop design concepts in 2006 in consultation with residents**
- **Repeat successful homeowner support programs in 2006**
- **Respond to Council in July with further information**
- **Hold public hearing on funding alternatives in September**

The logo for the City of Edmonton, featuring a stylized building with a triangular roof and the text "City of Edmonton" in a serif font, oriented vertically on the left side of the slide.

What are the Benefits?

- **Quicker overall drainage**
- **Less pooling of water on the surface**
- **Less likelihood of basement flooding**
- **Less property damage**
- **Savings of time, money and inconvenience**

The logo for the City of Edmonton, featuring a stylized building with a triangular roof and a large 'E' shape, set against a blue background.

Discussion and Feedback

Clarifying Questions?



Issues, comments, concerns?



Additional information needs?