City of Edmonton

Drainage Services
Flood Prevention Program

South Edmonton
Communities Consultation
May 9, 2006

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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 floodproof 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

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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

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Today's Meeting

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

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After Today's Meeting

1. Summarize and share input
2. Incorporate input into planning
3. Report progress
4. Keep communities informed as work is completed

July 11, 2004 Flooding

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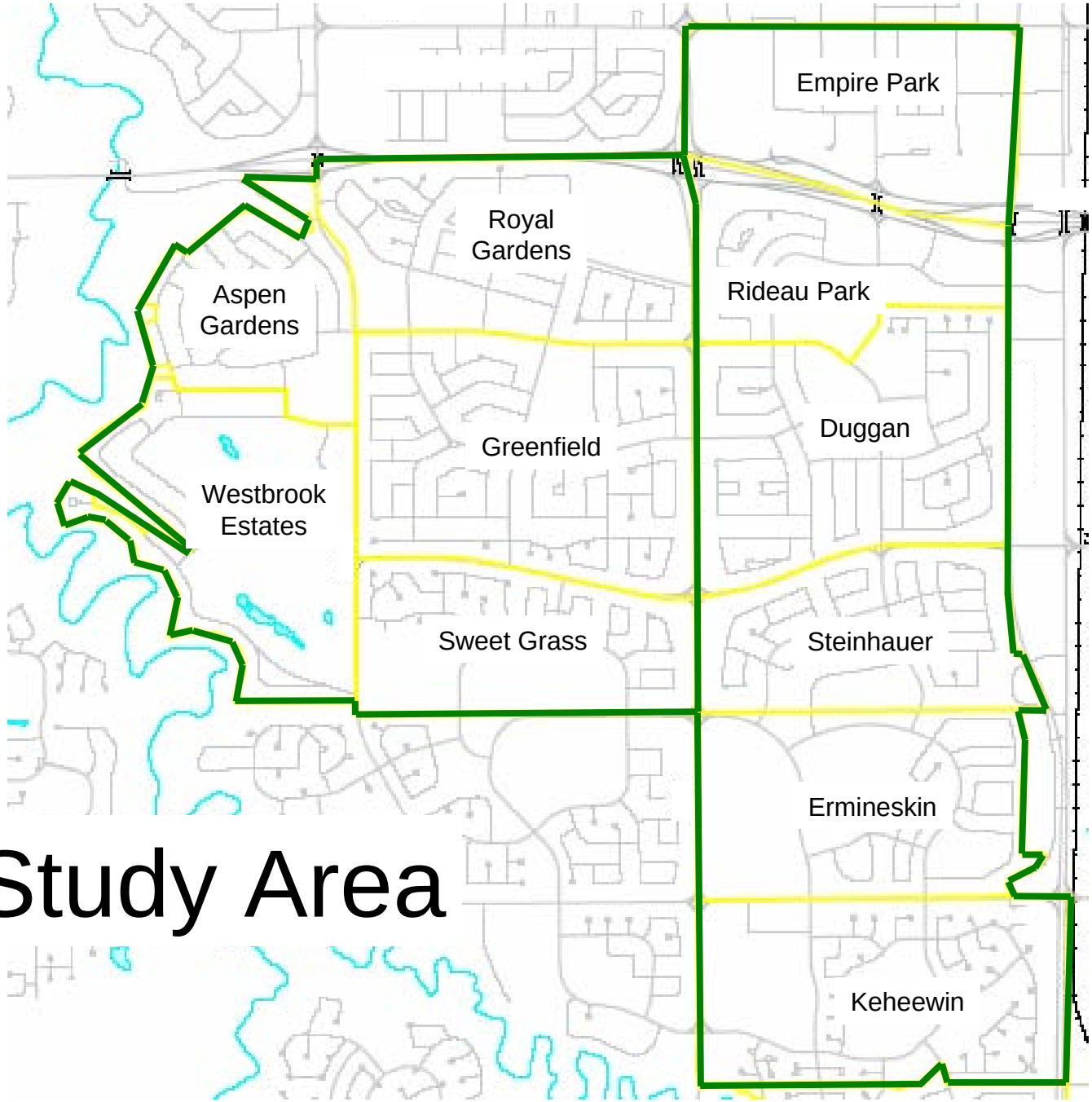
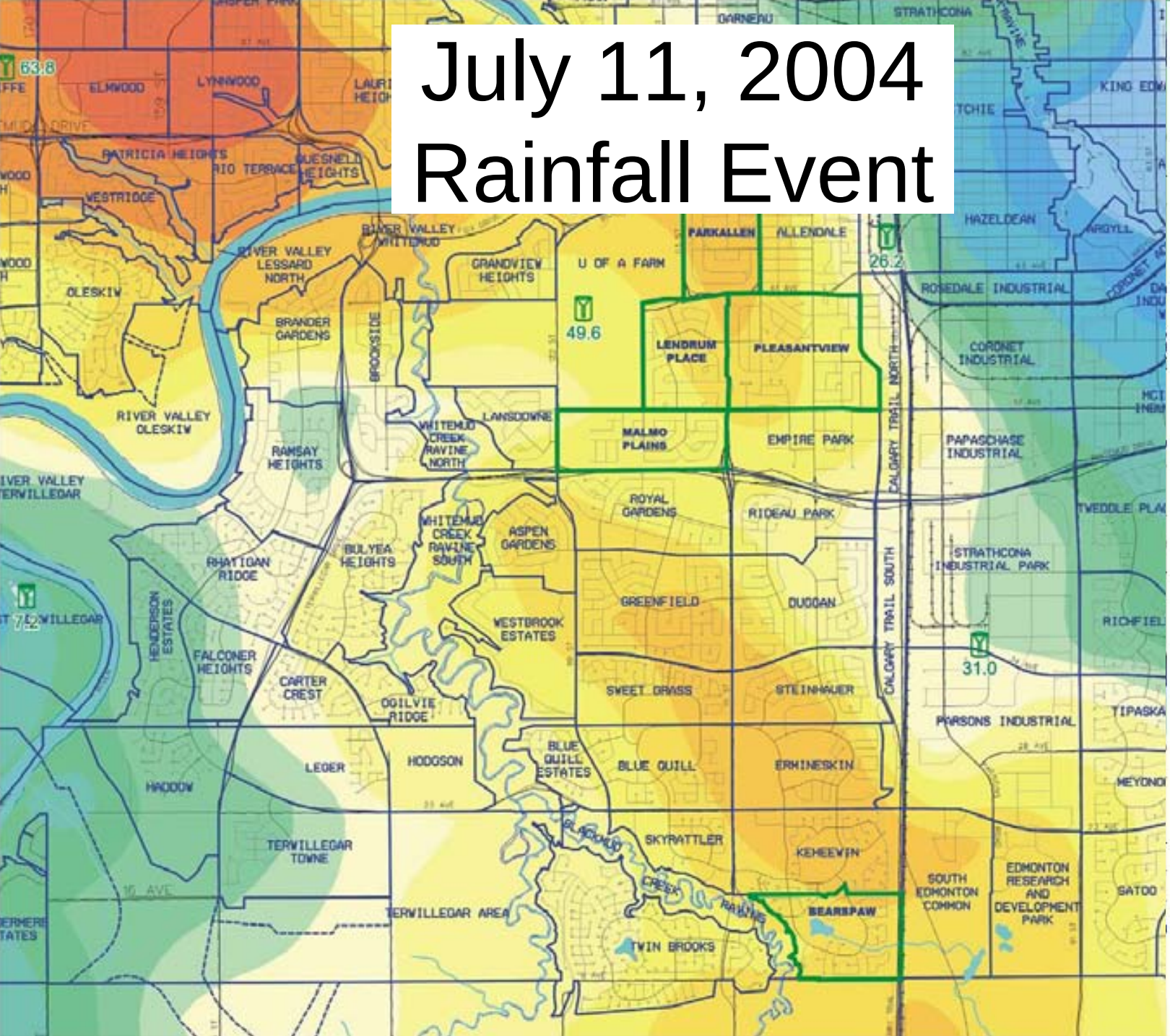
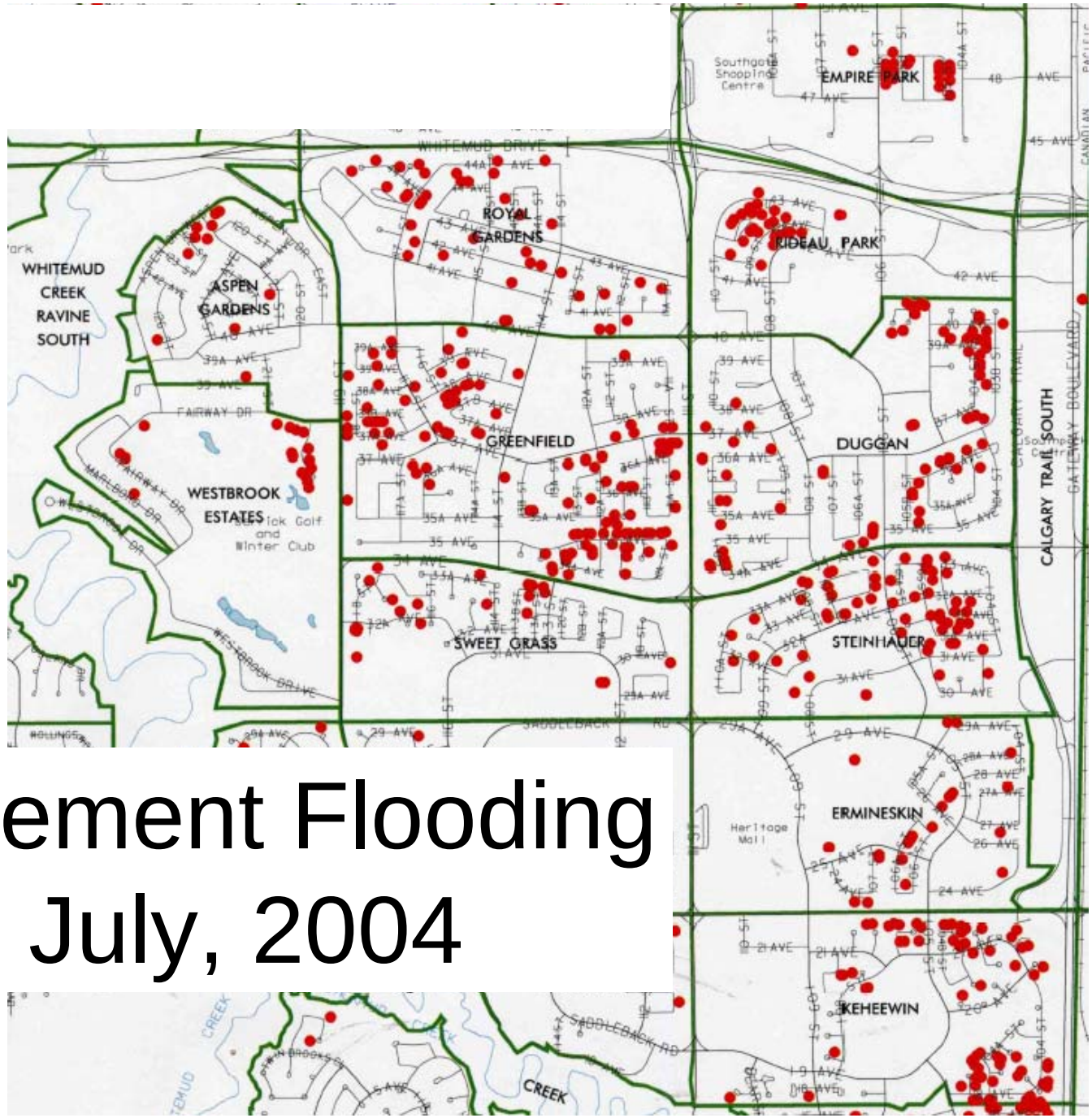

Empire Park
Royal Gardens
Aspen Gardens
Rideau Park
Duggan
Greenfield
Westbrook Estates
Sweet Grass
Steinhauer
Ermineskin
Keheewin

Study Area

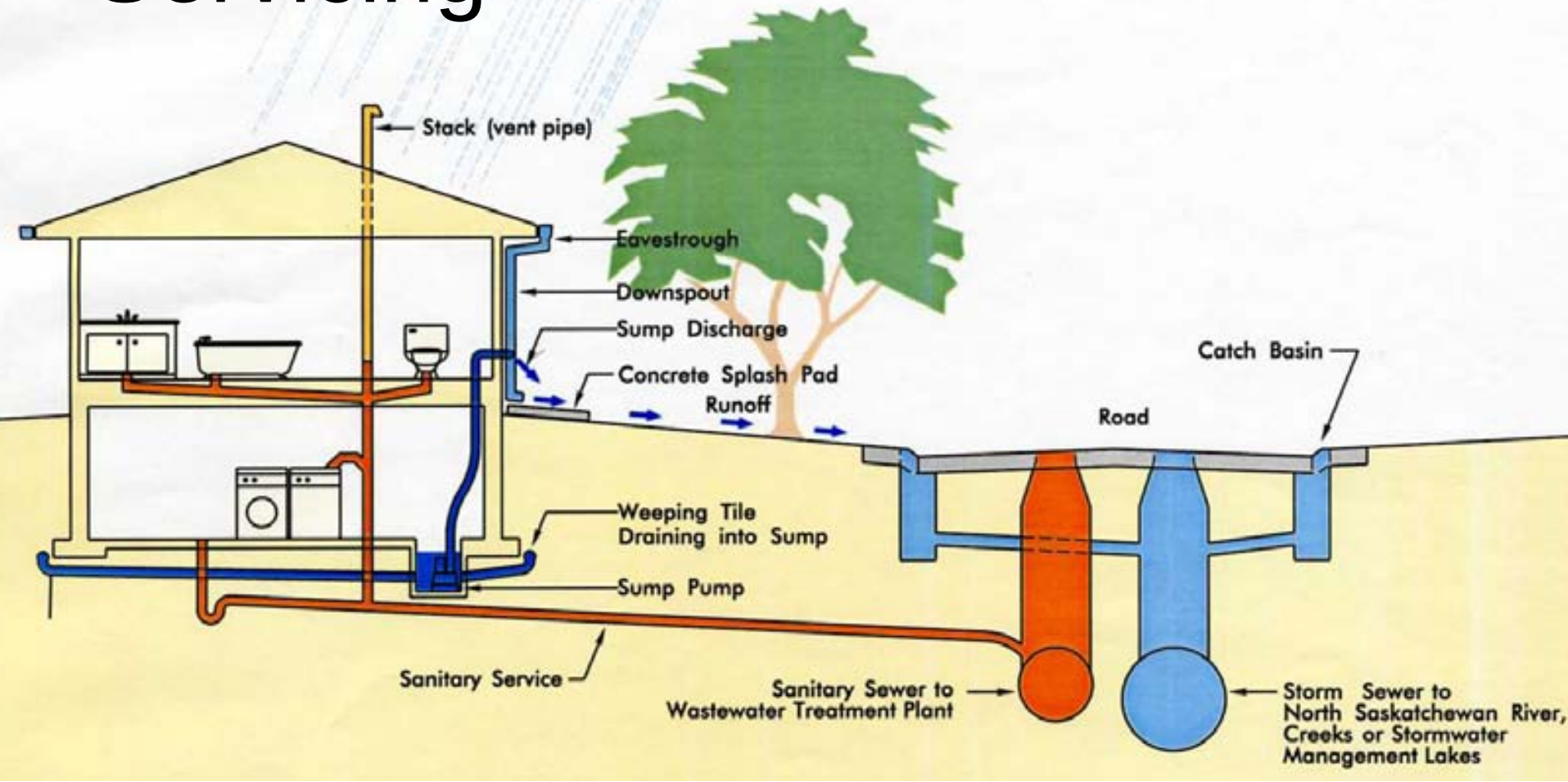
July 11, 2004 Rainfall Event





Basement Flooding
July, 2004

Typical New Home Servicing



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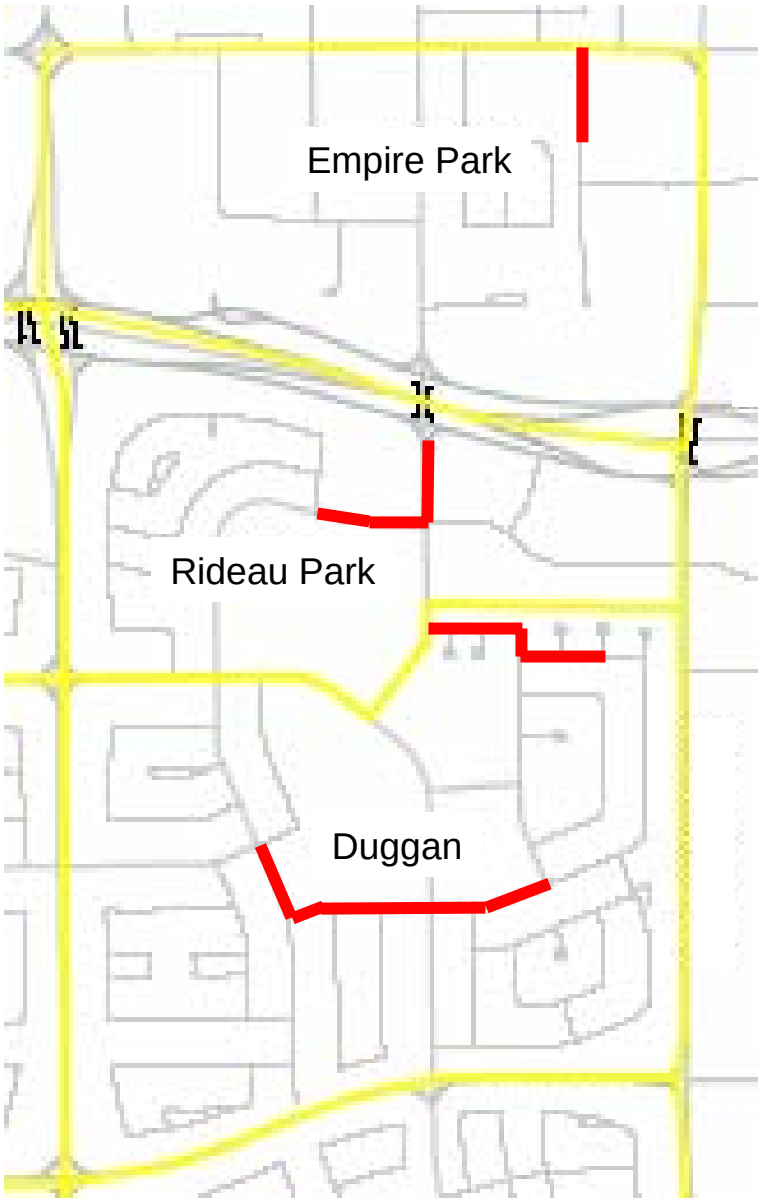
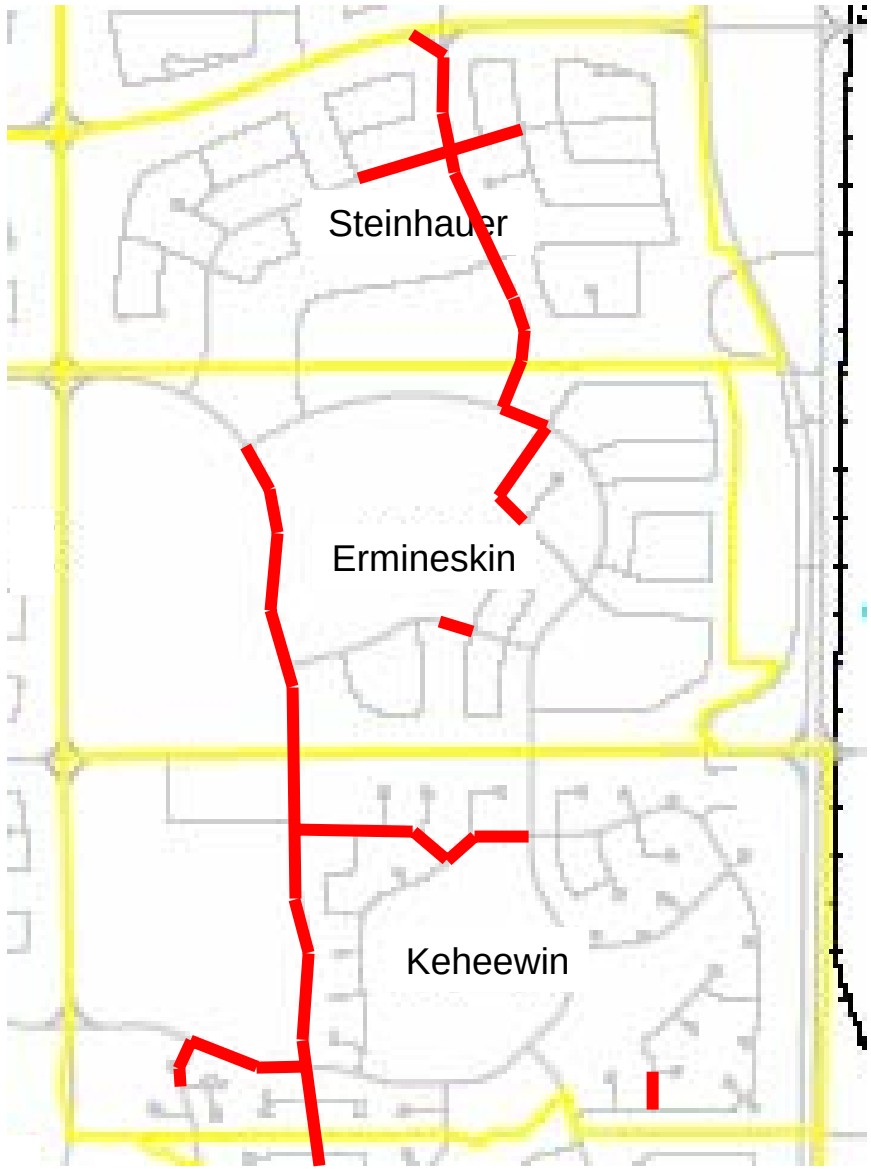
Study Findings

- Water volume exceeded capacity of storm sewer systems
- Stormwater got into sanitary system
  - manhole covers
  - cross-filtration from storm sewers
  - from weeping tiles and some roof drains
- 532 flooded basements reported
  (269 flooded prior to 2004)

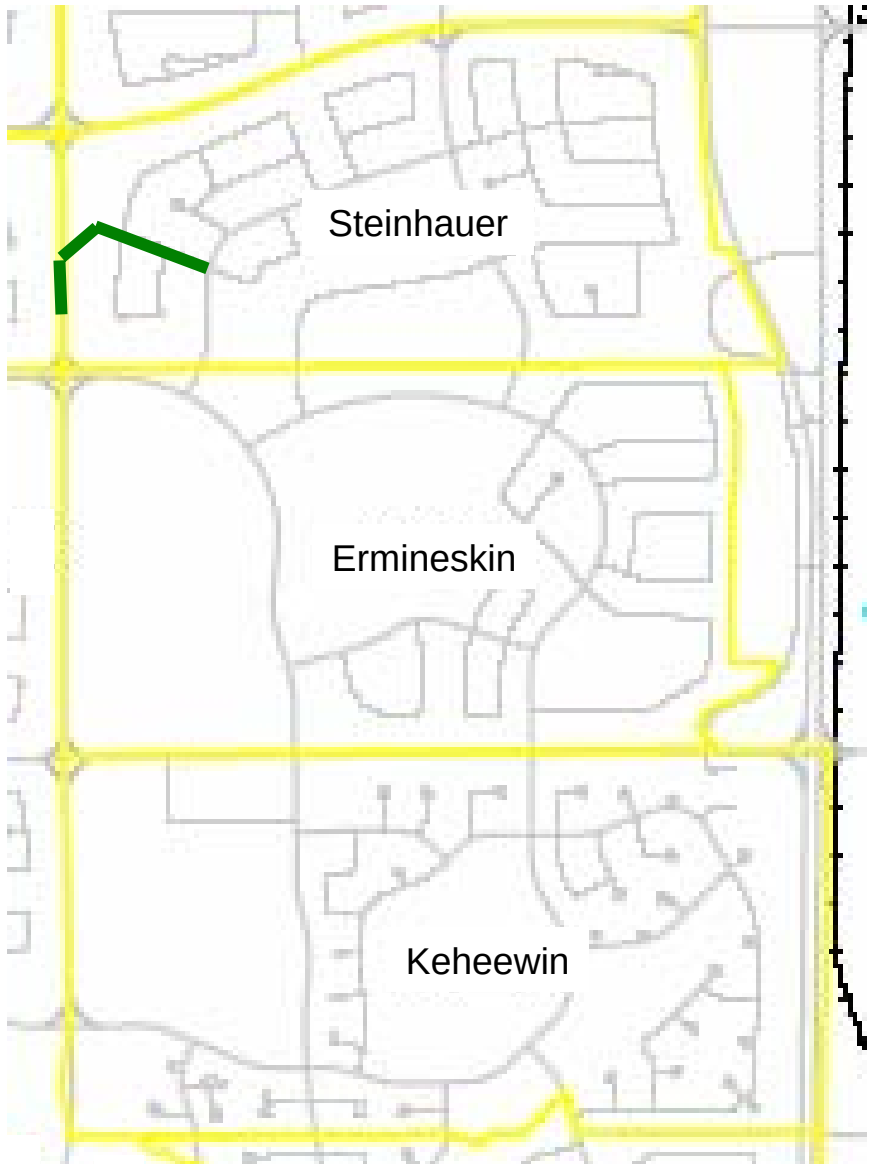
Sanitary Sewer System Upgrades

Sanitary Sewer System Upgrades





Storm Drainage System Upgrades



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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

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Proposed Upgrades

Upgrade Priorities	Costs ($ million)
Sanitary - mid term (2010 – 2015)	$5.2
Storm - mid term (2010 - 2015)	$0.5
Sanitary - long term (+ 2015)	$4.6
Storm - long term (+ 2015)	$1.7
Total :	$12.0

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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)

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What's Next

- Continue design work in 2006
- Repeat successful homeowner support programs in 2006
- Respond to Council in July with further information
- Hold public hearing on funding alternatives in September

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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

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Discussion and Feedback

Clarifying Questions?

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Issues, comments, concerns?

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Additional information needs?