



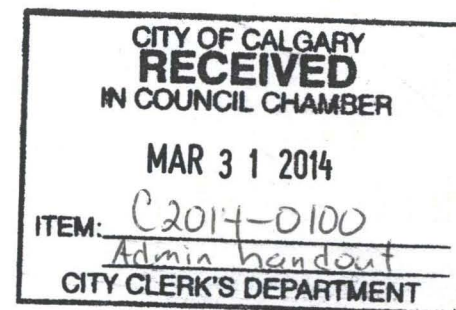
THE CITY OF  
**CALGARY**

# Utilities & Environmental Protection

## **Expert Management Panel on River Flood Mitigation Quarterly Report**

**C2014-0100**

***2014 March 31***



## **Q1 2014 focus areas**

- Initiated 6 technical panels to address theme areas of River Flood Mitigation Program
- Dialogue with Province and community
- Finalizing and/or initiating a number of studies



# Utilities & Environmental Protection

## Technical Panels

- 37 experts from academic, consultant and industry professionals
- 3 task forces, 6 themes

Changing Climate

Storage, Diversion  
and Protection

Infrastructure and  
Property Resiliency

Watershed  
Management

Event Forecasting

Additional Risk  
Management



## Communications & Engagement

- Continue to engage in dialogue with citizens and stakeholders
- Some emerging themes include:
  - Desire of citizens to become more informed of actions they can take;
  - Need for advance warning of potential flooding;
  - Anticipation of results of feasibility study; and
  - Perceived benefits of dredging.



## Public Input

- 214 web submissions from the public. Most frequent suggestions in regards to:
  - More or improved berms/barriers;
  - Glenmore Bypass Tunnel;
  - Upstream dams;
  - Restrictions on building in flood hazard area;
  - Stormwater system improvements;
  - Dredging rivers; and
  - Dredging Glenmore Reservoir.

## Provincial Initiatives

- Upstream Storage Options - “Dry Dams”
- Bow Basin Flood Mitigation & Watershed Management Project – Trans Alta/Province
- Glenmore Bypass Feasibility Study – Provincially funded
- Flood monitoring and warning systems

## Glenmore Reservoir Storage

- Evaluation of increasing reservoir storage by removing deposited sediment
- Dredging would be at a significant cost, would have negligible flood mitigation benefit and could adversely impact drinking water



## Elbow River Mission Barrier

- Examination of hydraulic performance of the Mission Barrier as it affected flows in the main channel of the Elbow River and along overland flow routings
- Overall, appears to have been effective in eliminating direct overland flows from the Elbow River towards downtown
- Depending on location and modeling method, maximum water level difference was 0.16m (at Mission Bridge) and 0.28m (at 25th Avenue Bridge)



## Sunnyside

- Remote operation of 3 storm outfall gates and temporary pumping
- NW Inner City Drainage Study – inclusion of long term and interim solutions for Sunnyside
- Erosion repair to include raising berm to 0.5 meters above 1:100 level

## Next steps

- Continued discussions with Province as various studies and reports are concluded
- Finalizing recommendations and report to Council in June
- Report in June will set strong foundation and direction for further work

## Recommendation

- Receive this report for information