Mitigation Panel Work Plan & Progress Update

Task Force	Theme Area	Data/Study/Action	Progress Highlights
	Storage, Diversion and Protection	Identify storage options for flood flows on the Bow and Elbow Rivers . Examine ways of enhancing storage capacity of the Glenmore Reservoir through physical or operational changes.	Based on the original Provincial conceptual work for the Elbow River, the Province is proceeding with detailed engineering and the regulatory and engagement process on a storage facility on a tributary to the Elbow. A multi stakeholder working group, including TransAlta has been struck by the Province to examine storage options on the Bow River. The current capacity of the Glenmore Reservoir has been measured and found to have changed very little since 2006. Engineering to consider raising the operating level of the reservoir is underway.
2		Where storage solutions are inadequate look for ways to divert flows away from built up areas.	The Province has provided a grant to the City to conduct a feasibility assessment of a diversion or drain out of the Glenmore Reservoir to the Bow River. This work will begin in December and is expected to take up to three months.
		Assess areas of the city where additional permanent or temporary flood barriers (e.g. berms, flood walls) would be beneficial.	Water Resources staff are making good progress in identifying sites which would be amenable to additional flood protection. Up to 20 sites are considered feasible locations. Preliminary engineering around protecting Sunnyside from river flooding and rain events has identified pumping enhancements as a preferred solution. This will be discussed with the community in January. Analysis of the impact of the 4th Street berm is largely complete with a draft report from the consultant expected December 2. Work is underway to restore and reinforce six critical eroded sites.

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	Changing Climate	Review climate models for the region and	Project team in place. Expert panel identified. Using
		determine if current protection standards are	work carried out by ESM within City as basis for
		adequate (e.g. is an 1:100 return period the	discussion.
		right one)	
1	Watershed Management	Evaluate current watershed yield models and	Province has taken leadership of multi stakeholder
		determine if yields have been impacted by	initiative to carry out wide ranging review of
		human activity. Identify possible remedial	watershed and Bow River operating model. Two
1		actions if significant benefits are available.	workshops have been held to obtain and review water
1		Examine ways in which natural and man made	management options.
		features could reduce peak flows.	Groundwater data from 2013 event is available to
		Work to understand groundwater flows within	compile influence map.
		the City due to flood flows.	
	Event Forecasting	Engage in a review of river forecast models to	Provincial Department of Environment and
		ensure they give the best possible information.	Sustainable Resource Development (ESRD) and Water
		Examine ways forecasts might give more	Resources staff coordinating on several river
		advance warning of weather events.	engineering modelling studies which will examine
		Investigate possible technology solutions to	and map changed river conditions.
		improve interagency information sharing.	Provincial and City emergency management agencies
			will be involved in joint discussions on event
			forecasting.

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Pane	Task Force	Theme Area	Data/Study/Action	Progress Highlights
0		Infrastructure and	Evaluate models and forecasts for impact on	Some work has been done as a result of the flood
larte		Property Resiliency	existing processes and infrastructure for	recovery effort to repair and improve infrastructure
			vulnerability.	resilience in future floods.
Quarterly Report	3		Identify critical infrastructure and determine	Critical water infrastructure is well understood. More
rt ATT	3		additional protective measures. This to include	needs to be done with other important facilities not
5 -i			both public and private assets, e.g. Energy,	under City control. The Province has agreed to lead
			Health, Information, Transportation and more.	the effort in this area with our support.
		Remaining Risk	Recognizing that risk can not be reduced to	Meetings have been held with insurance industry
		Management	zero, provide information to the public on	officials to understand their perceptions and
			degree of risk such as flood mapping,	suggestions around flood and other weather related
			probability estimates and worst case scenarios.	risks. Joint educational efforts appear to offer an
			Investigate financial protection options, land	opportunity to increase public risk awareness and
			use and building regulation changes.	resilience.
				A multi stakeholder team lead by PDA and Law is to
				examine options for changes to land use bylaws and
L				building regulations.