

City of Calgary 2015 ACRP Project Submission

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	Project Title	Project Summary	Project Budget (000's)	ACRP Request (000's)	City Cost Share
		Brief Description		Current Budget (Resiliency Component Budget)	1st \$3M @10% remaining @30%
1	Bonnybrook WWTP flood resilience - flood protection berm	Permanent flood berm for Bonnybrook WWTP, to maintain continuity of plant operations during flood events and avoid damage to critical infrastructure. This berm will protect against a 1:100 year flood in the Bow River with an additional 1m of freeboard, and would include a groundwater cutoff wall. This berm is part of a larger program of flood resiliency for Bonnybrook WWTP which is current in detailed design.	\$ 10,800	8,160	2,640
2	Bonnybrook WWTP flood resilience - storm and flood overflow modifications	Relocate stormwater outfalls on the Bonnybrook WWTP site to avoid backup onto the site during high-water events and modify sewer pipes on site to divert wastewater away from key process areas, susceptible to flooding. This stormwater diversion is part of a larger program of flood resiliency for Bonnybrook WWTP.	\$ 10,200	7,740	2,460
3	West Eau Claire flood barrier	A flood barrier integrated into the planned redevelopment of the pathway system. This is a critical spill point to downtown from the Bow River, overflowing during a 1:75 year flood.	\$ 1,340	1,206	134
4	Sunnyside Pump Station #1	A new pump station to help dewater community during high river events. This will be located at the lowest elevation in the drainage area and take the overflow from other pump stations	\$ 4,000	3,400	600
5	Sanitary Lift Station Resiliency Projects	To improve resiliency of sanitary lift stations in the event of flooding. Projects start in 2015. Raising electrical components to ensure operation during floods. Project locations: Bowness (2 projects) Valley Ridge Prince's Island Park	\$ 440	396	44
6	Municipal Complex Site Drainage Program Multiple Phase	Channel water entering the building away from critical building systems into an exterior cistern and pump excess water into the storm sewer. When the cistern and storm sewer reach capacity, water can be directed to the LRT tunnel for additional storage. Also divert rising groundwater via a weeping tile system to reduce hydraulic pressure on the foundation as well as to channel and remove water from the building foundation. The program is based on the damage actually experienced during the 2013 flood using proven technology.	\$ 6,400	5,080	1320
7	Deerfoot Trail permanent flood barrier	Two separate dykes (total 250m long) adjacent to Nose Creek to protect to the 1:100 year flood event (+0.5m freeboard) will enhance flood protection of this critical access and egress route. Will prevent overland flow on Deerfoot Trail and Beddington and 64th Ave during a 1:100 year flood event on Nose Creek.	\$ 1,100	990	110
8	2013 Calgary Flood Mitigation Project - Calgary Zoo	Flood Mitigation Project at the Calgary Zoo includes a 360 degree cofferdam around St. George's Island with walls to the 2013 flood level plus one meter of freeboard and a supplementary pumping system to manage residual seepage and stormwater, to manage future high water events.	\$ 25,000	18,100	6900
Project Totals			\$ 59,280	45,072	14,208