

Identifier	PFC-2014 0282 Category #	Department	Business Unit	Project Summary	Project Outcome (Benefits)	Capital Program #	Capital Budget (000's)	Operating Program #	Annual Operating Budget (000's)	Estimated Duration	Imp. Timing (Budget Cycle)	
P-1		Community Services & Protective Services	Animal & Bylaw Services	Public Safety Site Inspection to Support Provincial Flood Buy-Out Properties in Calgary.	Animal & Bylaw Services provide resource support to monitor and conduct regular site visits on impacted properties to ensure public safety and compliance with community standards.							
						<div>CITY OF CALGARY RECEIVED IN ENGINEERING TRADITIONS ROOM APR 01 2014 ITEM: <u>PFC2014-0282</u> CITY CLERK'S OFFICE</div>			004	250	Over 2 years	2014
P-2		Community Services & Protective Services	CEMA	EOC Rehabilitation	Maintain the Emergency Operations Centre in the appropriate condition to provide service; address health and safety; code compliance; operational need, physical integrity, general efficiency issues and needs.	935	2,129			Over 2 years	2014-2018	
P-3	C2	Community Services & Protective Services	CFD	Community Support Centres	Ability for the Fire department to provide citizen support at Fire facilities following a significant event or disaster.	935	1,250			1 - 2 years	2015	
P-4		Community Services & Protective Services	CFD	Flood Mitigation Resiliency for Fire Stations - 1, 2, 6, 15	Service Delivery Business Continuity and Resiliency	935	1,400			1 - 2 years	2015	

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P-5	C3	Community Services & Protective Services	CFD	Alert and Warning Notification System	Emergency / hazardous condition siren / loudspeaker with notification systems installed on fire facilities throughout the city.	935	4,000	001	100	1 - 2 years	2015
P-6		Community Services & Protective Services	Community & Neighbourhood Services	Calgary Zoo – Flood Mitigation Project	Flood protection higher than the 1:100 year flood elevation and pumping capacity to manage overland and groundwater penetration. <i>Estimated operating cost \$125-224 per year for two years</i>	956	25,000			Over 2 years	2014
P-7		Community Services & Protective Services	Community & Neighbourhood Services	Calgary TELUS Convention Centre Flood Mitigation Project	Flood mitigation and resiliency to provide optimal emergency response and business continuity capabilities.	956	350			1-2 years	2014
P-8	C-4, C-5, C-6, C-7, C-9, C-10, C-11, C-12, C-13 I-8, I-9, I-10, I-11, I-12, I-13, I-14,	Community Services & Protective Services	Parks	Buildings – Multiple Locations	Bowness Park washrooms, Sandy Beach historic buildings, Stanley Park Depot – parks buildings that were damaged in the flood. Mitigation projects to improve their resiliency to future high water event.	932	855			1-2 years	2014

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P-9	C-4, C-5, C-6, C-7, C-9, C-10, C-11, C-12, C-13 I-8, I-9, I-10, I-11, I-12, I-13, I-14,	Community Services & Protective Services	Parks	Riparian Uplift – Multiple Locations	Identify, design and implement riparian uplift re-vegetation projects on approximately 20 park sites with erosion issues due to 2013 flooding.	932	5,670			1-2 years	2014
P-10	C-4, C-5, C-6, C-7, C-9, C-10, C-11, C-12, C-13 I-8, I-9, I-10, I-11, I-12, I-13, I-14,	Community Services & Protective Services	Parks	Infrastructure – Multiple Locations	Site specific mitigation depending on type of infrastructure impacted and how park is used. These projects address longer term damage trends and promote public safety.	932	1,015				2014
P-11		Community Services & Protective Services	Recreation	Glenmore Reservoir Services – Retaining Wall Reconstructino	Rehabilitate and reconstruct the existing retaining wall located along the north end of the board storage area.	933	250			1-2 years	2014

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P-12		Community Services & Protective Services	Recreation	Maple Ridge Golf Course – Electrical Infrastructure Improvements	Electrical Infrastructure Improvements Relocate electrical panels, transformers, three-phase power supply cabinet within the river pumphouse structure.	933	50			1-2 years	2014
P-13		Community Services & Protective Services	Recreation	Shaganappi Pointe Golf Course – Electrical Infrastructure Improvements	Electrical Infrastructure Improvements. Relocate electrical panels within the pumphouse structure.	933	50			1-2 years	2014
P-14	115	Community Services & Protective Services	Recreation	Shouldice Aquatic Centre – Flood Control Planning and Implementation	Comprehensive investigation / determine options to improve flood protection and control (such as berms, floodway channels and protective barriers)	933	500			Under 6 months	2014
P-15		Community Services & Protective Services	Recreation	Shouldice Artificial Turf Fields – Drainage System and Subsoil Improvement	Drainage System and Subsoil improvements to mitigate damage to fields in future high water events.	933	12,000			Over 2 years	2014-2018

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P-16		Community Services & Protective Services	Recreation	Stanley Park Outdoor Pool- Overall Site Plan Review Consultation	Develop a collaborative plan to improve the flood resiliency measures for Stanley Park. Possible pool relocation.	933	500			1-2 years	2014
P-17		Community Services & Protective Services	Recreation	Talisman Centre – Facility Flood Preparedness Program and Mechanical Improvements	Improvements to the mechanical equipment design and capacity; overall flood and emergency plan developed.	956	1,000			1-2 years	2014
COMMUNITY SERVICES & PROTECTIVE SERVICES SUBTOTAL							56,019		350		

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P-18		Corporate Services	Customer Services & Communications	Community-Based Crisis Communication and Emergency Notification	Expand and enhance City of Calgary capabilities to communicate with citizens during time of crisis.	938	600			Over 2 years	2014-2018
CORPORATE SERVICES SUBTOTAL							600				

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P-19		Transportation	Calgary Parking Authority	Sump Upgrade	Allow the dewatering systems of high risk parkades to continue to operate when the sump pumps are submerged and the storm system is at capacity.	957	240			1-2 years	2014-2015
P-20		Transportation	Calgary Parking Authority	Relocate main switch gear and transfer switch.	Relocate main electrical switch gear above grade to main or P1 Levels of parkade(s) Telus Convention Centre, McDougall	957	350			1-2 years	2014-2015
P-21		Transportation	Calgary Transit	South LRT Corridor – Tunnel Relamping	All lighting in CP tunnel was submerged; 20% submerged in Cemetery Hill Tunnel. Lighting will be replaced with submersible water tight lights.	947	350			6-12 months	2014
P-22		Transportation	Calgary Transit	Relocation of Cemetery Hill Electrical and Pump station to higher elevation	This project will replace the station with an elevated structure that is more resilient to high water level in future.	947	250			6-12 months	2014

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P-23		Transportation	Calgary Transit	Relocation of Erlton LRT Station signal room to higher elevation	Elevate room to ensure protection in case of future floods.	947	500			6-12 months	2014
P-24		Transportation	Calgary Transit	Raise Victoria Park switch gear	Maintain on-site power for the Calgary Transit Operations Control Centre at Victoria Park.	947	250			1-2 years	2014
P-25		Transportation	Calgary Transit	South LRT Corridor-Track Drainage Improvements	New construction to provides track stability under high water conditions.	947	1,500			1-2 years	2014
P-27		Transportation	Roads	Enhanced Channel Scour and Bank Protection	Lessen or eliminate the amount of channel and bank degradation that could affect foundations and abutment backfills. Build in measures at each river bridge to protect these critical bridge elements.	948	8,550			Over 2 years	2015-2017
P-28		Transportation	Roads	Roads Traffic Management Centre (RTMC)	The establishment of a Roads Traffic Management Centre (RTMC) with essential resources is considered the most relevant opportunity to enhance	948	12,000			Over 2 years	2014-2018

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					managements COP and response throughout a disaster scenario. The establishment of the RTMC is considered to be the CofC Traffic Engineering Division's priority.						
P-29		Transportation	Roads	Back Lane Paving	Gravel back lanes and roadways present an opportunity for water to scour material from the surface requiring a complete overhaul of the roadway. There is an opportunity to reduce repair costs by replacing all gravel and oil/chipped surface roadways and laneways with asphalt surfaces in flood zones.	948	6,000			Over 2 years	2015
P-30		Transportation	Roads	Calgary Communication Network (CCN)	The purpose of this project is to create redundancy in the communications network.	948	5,000			Over 2 years	2015-2017
P-31		Transportation	Roads	Signal Controller Upgrades	Upgrade existing traffic signal controllers to controller type that will stay in synchronization using GPS signals.	948	3,000			Over 2 years	2015-2016

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P-32		Transportation	Roads	Streetlight Relay Replacement	Relocation of relays that will make Streetlight system less susceptible to flooding.	948	3,000			Over 2 years	2014-2017
P-33		Transportation	Roads	Emergency Access to Bow River & Calgary Weir area off of Memorial Drive SE / Deerfoot Trail	Access is required for City of Calgary during emergencies (mainly flood emergency) and ESRD staff for emergency operation of water infrastructure.	948	350			6-12 months	2014
P-34		Transportation	Transportation Infrastructure	Elbow River Pedestrian Bridges Replacements	Replacement of Sandy Beach, Riverdale Ave, Rideau Park pedestrian bridges damaged by June flood.	949	10,500			Over 2 years	2014-2016
P-35		Transportation	Transportation Infrastructure	Replacement of Elbow River Traffic Bridge – Mission (4 th Street)	Replacement of the bridge to increase height to reduce debris build up which creates barriers to water flow	949	16,000			Over 2 years	2016
P-36		Transportation	Transportation Infrastructure	Replacement of Elbow River Traffic Bridge – Scollen (24 th Avenue)	Replacement of the bridge to increase height to reduce debris build up which creates barriers to water flow	949	9,000			Over 2 years	2016
P-37		Transportation	Transportation Infrastructure	Replacement of Elbow River Traffic Bridge – Elboya Bridge	Replacement of the bridge to increase height to reduce debris build up which creates barriers to water flow	949	13,000			Over 2 years	2016

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P-38		Transportation	Transportation Infrastructure	Replacement of Elbow River Traffic Bridge – Victoria (Macleod Trail)	Replacement of the bridge to increase height to reduce debris build up which creates barriers to water flow	949	18,000			Over 2 years	2016
P-39		Transportation	Transportation Infrastructure	Replacement of Elbow River Traffic Bridge – Pattison (Macleod Trail)	Replacement of the bridge to increase height to reduce debris build up which creates barriers to water flow	949	14,000			Over 2 years	2016
TRANSPORTATION SUBTOTAL							121,840				

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P-40		Utilities & Environmental Protection	UEP - Water	Bonnybrook Waste Water Treatment Plant	Flooding protection for Bonnybrook WWT plant, to maintain continuity of plant operations in future flood events.	952	63,000			Over 2 years	2014-2018
P-41		Utilities & Environmental Protection	UEP - Water	Glenmore Dam Crest Stop Logs	Replacement of existing deteriorated wooded stop logs system with a more robust steel gate system to permit Glenmore Reservoir storage to FSL over greater period.	952	71,000			Over 2 years	2014-2018
P-43		Utilities & Environmental Protection	UEP - Water	Sunnyside Community Improvement	Will increase flood resiliency in the community predominantly by permanent infrastructure but also shorter term interim measures.	952	115,000			Over 2 years	2014-2018
P-44		Utilities & Environmental Protection	UEP - Water	Stormwater outfall improvements	Upgrade of stormwater outfalls for both erosion protection and installation of gates, if necessary.	952	2,000			Over 2 years	2014-2017
P-45		Utilities & Environmental Protection	UEP - Water	Stormwater and Sanitary Lift Station Resiliency Projects	To improve resiliency of stormwater and sanitary lift stations in the event of flooding.	952	6,500			Over 2 years	2014-2017
P-46		Utilities & Environmental Protection	UEP - Water	Permanent River Flood Protection Structures	Installation of permanent berms and dikes will enhance flood protection for areas prone to river flooding.	952	200,000			Over 2 years	2015-2018

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P-47		Utilities & Environmental Protection	UEP - Water	Glenmore Reservoir Diversion	Plan, engineer and construct a 5km flood diversion tunnel from the Elbow River (Glenmore Reservoir) to the Bow River.	952	290,000			Over 2 years	2014-2018
P-48		Utilities & Environmental Protection	UEP - Water	River and weather monitoring/forecasting enhancements; equipment, software, etc.	Purchase of additional and improved local weather monitoring and forecasting equipment and software to improve emergency response time.	952	1,500			Over 2 years	2014-2017
UTILITIES & ENVIRONMENTAL PROTECTION SUBTOTAL							749,000				

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P-49	C21	Calgary Police Service	Calgary Police Service	Calgary Police Service Court Services Section Relocation	The Court Services Section (CSS) is fundamental to CPS operations and was flooded in 2013 causing significant operational problems during the initial response phase to the flood. This project will eliminate the risk and exposure of having the CPS Arrest Processing functions in the downtown core and in the flood way by moving it out of the flood prone zone.	953	12,000			1 - 2 years	2015-2016
P-50	C22	Calgary Police Service	Calgary Police Service	Mobile Command Vehicle System	Purchase two mobile command stations in order to increase the efficiency and effectiveness of CPS response to flood and disaster.	953	1,990			6-12 months	2014
P-51	C23, C24	Calgary Police Service	Calgary Police Service	Calgary Public Safety Radio System – System Upgrade	This project will replace the radio components at each Mobile Radio Tower site and upgrade the system core to ensure that system continuity is maintained.	953	2,560			6-12 months	2014
CALGARY POLICE SERVICES SUBTOTAL							16,550				

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P-52		Planning, Development & Assessment	Land Use Planning and Policy	Flood Hazard Area Policy and Land Use Bylaw Review Project.	To develop a Flood Hazard Area policy by creating MDP statutory policy, and by removing the grandfather clause, and permitted uses from the Land Use Bylaw			616	202	Over 2 years	2014
PLANNING DEVELOPMENT & ASSESSMENT SUBTOTAL									202		

	Capital Budget (000's)	Annual Operating Budget (000's)
THE CITY OF CALGARY TOTAL SUBMISSION	944,009	552

Note: Many of the Operating & Capital Budgets need to be split over more than one year.

The City of Calgary submitted the following applications on behalf of - ENMAX - Submissions to Provincial Mitigation/Resiliency Program Funding (000's)

Identifier	Department	Project Summary	Project Outcome (Benefits)	Capital Budget (000's)	Operating Program #	Annual Operating Budget (000's)	Estimated Duration	Imp. Timing (Budget Cycle)
P-EN-01	ENMAX 01	Automation of Electricity Infrastructure	Ensure a speedy and more precise isolation of electricity power in areas that are prone to flood hazards	2,900		Incremental costs (if any) to be absorbed in existing operating budgets	Over 2 years	2015-2017
P-EN-02	ENMAX 02	Downtown Calgary Electrical Supply Flood Resiliency	This project proposes to automate switching devices on the underground secondary electrical network in Downtown Calgary. IN a flood event, this enhancement will restrict the disconnection of electricity only to areas affected by flooding.	5,000		Incremental costs (if any) to be absorbed in existing operating budgets	Over 2 years	2015-2017
P-EN-03	ENMAX 03	Downtown District Energy Centre Flood Mitigation	Mitigate flood damage to the ENMAX Downtown District Energy Centre (DE9)	950		Incremental costs (if any) to be absorbed in existing operating budgets	1 - 2 years	2014-2015

The City of Calgary submitted the following applications on behalf of – CALGARY FLAMES PARTNERSHIP LIMITED
Submissions to Provincial Mitigation/Resiliency Program Funding (000's)

Identifier	Organization	Project Summary	Project Outcome (Benefits)	Capital Program #	Capital Budget (000's)	Operating Program #	Annual Operating Budget (000's)	Estimated Duration	Imp. Timing (Budget Cycle)
P-CF-01	Calgary Flames Limited Partnership	Scotiabank Saddledome, Calgary	Construction of flood control structures to protect the Saddledome from overland flow.		950			6-12 months	2014
Total (CALGARY FLAMES PARTNERSHIP LIMITED)					950				

The City of Calgary submitted the following applications on behalf of – CALGARY STAMPEDE
Submissions to Provincial Mitigation/Resiliency Program Funding (000's)

Identifier	Organization	Project Summary	Project Outcome (Benefits)	Capital Budget (000's)	Operating Program #	Annual Operating Budget (000's)	Estimated Duration	Imp. Timing (Budget Cycle)
P-CS-01	Calgary Stampede	Big Four Building	Rebuilding and relocating the critical mechanical and electrical infrastructure of the Big Four Building above 1:100 year flood levels to ensure the viability and continuity of Stampede-time and year-round events that take place in the facility, including the provision of being the command headquarters for the City of Calgary during major disasters.	750			1-2 years	2014-2015

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P-CS-02	Calgary Stampede	Calgary Stampede Electrical Substation Mitigation	Raising the equipment in the Stampede's Main Substation to above 1:100 year flood levels to ensure the continued functioning of the substation and safe water flow management in the event of future flood threats.	698			1-2 years	2014-2015
P-CS-03	Calgary Stampede	Calgary Stampede Storm Outfall #E9 Mitigation	Installation of a sluice gate at Outfall #E9, which services the main parking lots and buildings on Stampede Park covering approximately 35 acres, in order to protect the area from pooling floodwater and creating storm system backup in the event of future threats.	227			1-2 years	2014-2015
P-CS-04	Calgary Stampede	Calgary Stampede Main Grandstand Mitigation	Raising the critical electrical, mechanical and communications systems located in the Main Grandstand to above 1:100 year flood levels in order to ensure the viability and continuity of Stampede-time operations and marquee attractions in the event of future flood threats.	465			1-2 years	2014-2015
P-CS-05	Calgary Stampede	Calgary Stampede Infield Grandstand Mitigation	Raising critical systems currently housed in the Infield Grandstand to above 1:100 year flood levels in order to ensure the viability and continuity of Stampede-time main attractions that take place in the Infield (i.e. Rodeo, Chuckwagon, and Grandstand events).	584			1-2 years	2014-2015
P-CS-06	Calgary Stampede	Calgary Stampede BMO Building Mitigation	Raising the BMO Building's critical communications systems to above 1:100 year flood levels through the installation of lift structures and relocation of equipment in order to ensure the viability and continuity of Stampede-time and year-round events taking place in the facility.	207			1-2 years	2014-2015
P-CS-07	Calgary Stampede	Calgary Stampede Agriculture Building Mitigation	Raising critical systems housed in the Agriculture Building to above 1:100 year flood levels in order to ensure the viability and continuity of Stampede-time main attractions and year-round events that take place in the facility, including equine and	289			1-2 years	2014-2015

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P-EN-04	ENMAX 04	Electricity Task Force Information System	This project builds an application for mobile devices which enhances the ability of the City of Calgary's Safety Code Officers and ENMAX's field crews to collaborate in the field in real time.	1,000		Incremental costs (if any) to be absorbed in existing operating budgets	1 - 2 years	2015-2016
P-EN-05	ENMAX 05	Emergency Management System Interoperability	Improve interoperability and connectivity of ENMAX with the Calgary Emergency Management Agency (CEMA) that permits the sharing of temporal geospatial and power outage information during emergency situations.	4,000		Incremental costs (if any) to be absorbed in existing operating budgets	1 - 2 years	2014-2016
P-EN-06	ENMAX 06	ENMAX Substation No. 5 Flood Hardening	Flood-proof ENMAX 05 Substation to limit the impact of flooding on the electricity supply of downtown businesses and residences	2,200		Incremental costs (if any) to be absorbed in existing operating budgets	1 - 2 years	2015-2017
P-EN-07	ENMAX 07	ENMAX Substation No. 32 River Crossings	Flood resilience of ENMAX infrastructure crossing the Bow River at Substation 32 (Serving South Calgary Communities). The purpose of this project is to replace the four distribution feeders lost during the 2013 flood.	5,200		Incremental costs (if any) to be absorbed in existing operating budgets	Over 2 years	2015-2017
P-EN-08	ENMAX 08	Remote Electrical Service Disconnect Reconnect Capability	This project provides ENMAX remote connect and disconnect capability for flood affected businesses and residences outside of Calgary downtown	2,700		Incremental costs (if any) to be absorbed in existing operating budgets	Over 2 years	2014-2015

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TOTAL (ENMAX)				23,950				

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			livestock showcasing and educational interaction with people.					
P-CS-08	Calgary Stampede	Calgary Stampede Barn G Pedestrian and Equine Bridge Mitigation	Erosion protection of the riverbank adjacent to the abutments of the Barn G Pedestrian and Equine Bridge to support the infrastructure and safety of the bridge linkage from the equine housing facility to the main Stampede Park.	325			1-2 years	2014-2015
P-CS-09	Calgary Stampede	Calgary Stampede Equine Housing Mitigation	Building a retaining wall around the Equine Housing facility and resurfacing the floor of the facility to minimize damage and prevent erosion/environmental impacts in the event of a future flood.	655			1-2 years	2014-2015
Total (CALGARY STAMPEDE)				4200				