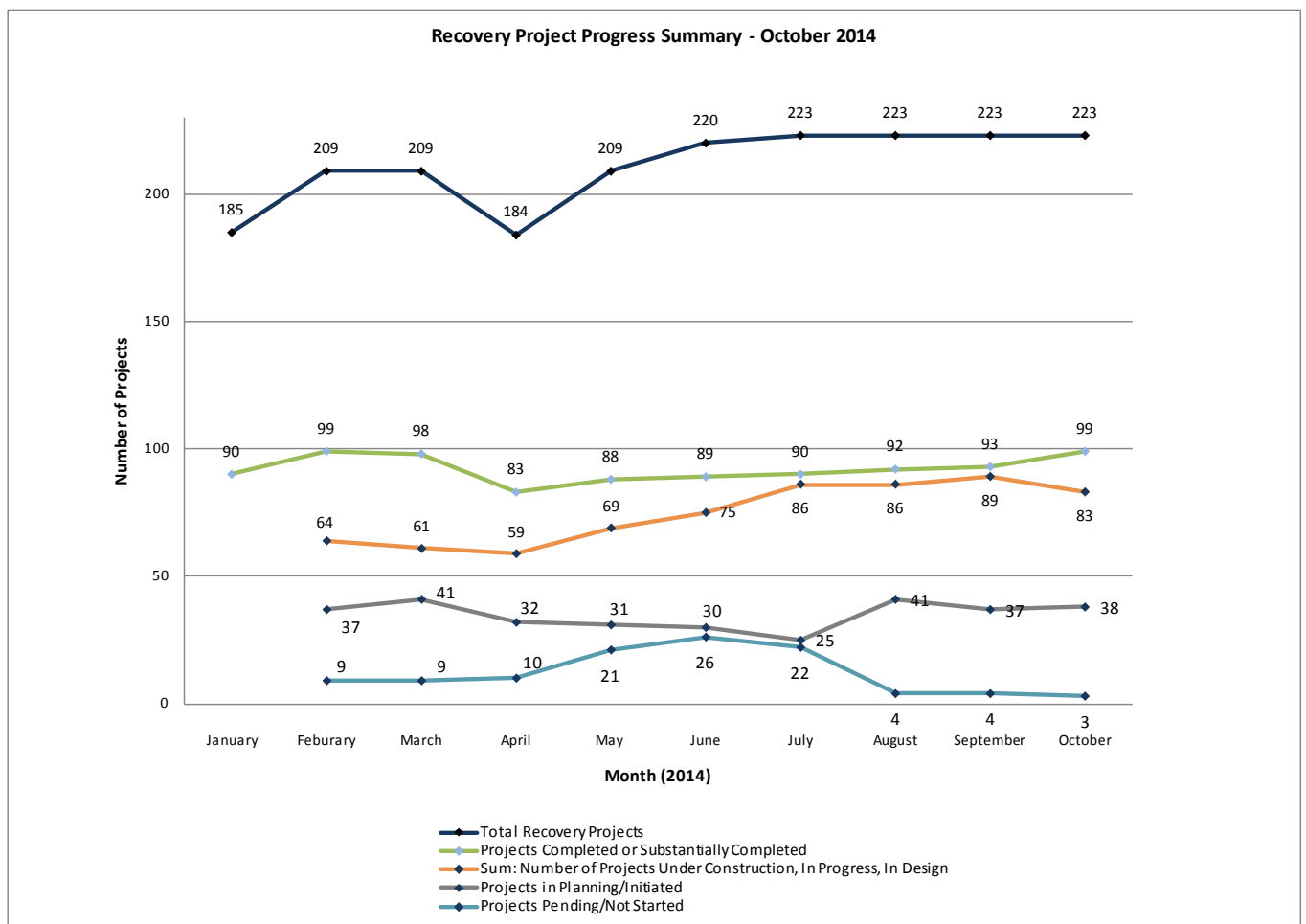


Municipal Infrastructure Recovery Program - Progress Summary October 2014

The Municipal Infrastructure Recovery Program was initiated to deal with municipal infrastructure damaged during the flood of June 2013 and has been underway since that time. The program includes a total of 223 projects to restore damaged infrastructure across a broad range of categories including transportation infrastructure, City buildings & facilities, parks & pathways, telecommunications & information technology, vehicles & utility infrastructure. The program also included projects to address riverbank erosion.

The graph below shows a month by month breakdown of the program by project status as of October 31, 2014. There is variance from month to month in numbers as a result of consolidation of projects and breaking larger projects into smaller initiatives to optimize work and financial submissions to the provincial Disaster Recovery Program (DRP).



The above graph shows positive trends in projects being initiated, under construction and being completed.

The following are some specific project highlights from work performed since the last report.

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Utilities & Environmental Protection	<p>Critical Erosion Sites</p> <ul style="list-style-type: none"> • Inglewood: <ul style="list-style-type: none"> • Riverbank stabilization was substantially completed in 2013 • Permanent watermain service to homes on 8 Avenue SE restored in November 2013 • Work commenced in spring 2014 to continue with flood recovery work which included landscaping and critical infrastructure restoration • 8th Avenue SE opened and pathway paved in August 2014 • Home Road: <ul style="list-style-type: none"> • Riverbank stabilization was substantially completed in 2013 • Work to complete the stabilization and landscaping to the top of the slope started again in May 2014 • Sunnyside: <ul style="list-style-type: none"> • Riverbank stabilization was substantially completed in 2013 • Work commenced in spring 2014 to continue with flood recovery work which included landscaping and construction of an overland flood protection berm • 19th Street: <ul style="list-style-type: none"> • Riverbank stabilization started in April 2014 and completed • Recovery work of the pathway and landscaping is complete • Diamond Cove: <ul style="list-style-type: none"> • Work started in April 2014 to stabilize the toe of the slope and landscaping and completed in May 2014 • Enmax at Douglasdale: <ul style="list-style-type: none"> • Work started and completed in May 2014 <p>Other Recovery Work</p> <ul style="list-style-type: none"> • Seven high priority erosion sites completed in June 2014 • Construction of three high priority sites started in September 2014; remaining nine high priority sites will be completed in 2015 • Design of top five moderate priority erosion sites began in September 2014 with construction to start in April 2015; remaining moderate priority erosion sites will be completed in 2016 and 2017. • Sanitary and Storm lift station recovery complete • River crossing analysis started in fall of 2014 • Bonnybrook Waste Water Treatment Plan recovery is ongoing. The plant was in operation in manual mode shortly after the flood but efforts have been made to recovery the instrumentation and controls. Work is anticipated to be completed in 2015 • Recovery of outfalls started and will continue through 2018 • Recovery of damaged stormwater ponds started and will continue through 2016
Community Services & Protective Services	<p>Recreation</p> <ul style="list-style-type: none"> • Shouldice Artificial Turf Field Reconstruction <ul style="list-style-type: none"> • Review of the geotechnical testing completed with recommendations for long-term recovery and resiliency of artificial fields; now working with Supply Management on a procurement strategy to begin detail design and development permit applications for construction to begin during Fall 2015 • Shaganappi Golf Course <ul style="list-style-type: none"> • Construction work will be awarded to a contractor during the first week of November with full construction and tie-in completion expected for spring 2015 • Maple Ridge Golf Course

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	<ul style="list-style-type: none"> • Several options still being considered with recommendation expected by end of 2014 • Stanley Park Outdoor Pool <ul style="list-style-type: none"> • Restoration construction project completed in early July which allowed for the very busy and popular outdoor pool to be operational during the summer of 2014 • Glenmore Reservoir Services <ul style="list-style-type: none"> • Damaged boat docks were replaced with no negative affects to operational programming at the facility • Pumphouse Theatre <ul style="list-style-type: none"> • Engineer's assessment of the basement floor slab did not reveal any concerns regarding soil migration in the subsoil base; no further actions were required <p>Fire</p> <ul style="list-style-type: none"> • New Quarry Park boat launch complete and access pathway construction underway • Shouldice Park boat launch planned for 2015 <p>Parks</p> <ul style="list-style-type: none"> • Sue Higgins Bridge <ul style="list-style-type: none"> • After the pathway approaches to both sides of the bridge were scoured out by the 2013 flood, the bridge was repaired and reopened to public use in July of 2014 • Sue Higgins Park <ul style="list-style-type: none"> • Restoration of park continued with all off leash areas now open to public use • Bowness Park <ul style="list-style-type: none"> • The western end repairs were completed and the control structure was replaced and is now in working order; picnic areas were replaced, play areas were re-established, and the parking lot was repaired; Park partially reopened in November • Beaver Dam Flats <ul style="list-style-type: none"> • Repair of the causeway (regional pathway connection) scoured out during the flood is functionally complete and open for public use • Stampede Pathway (Elbow River pathway between Macleod Trail South and Saddledome Bridge across from the Stampede Grounds) <ul style="list-style-type: none"> • Pathway was re-opened October 20, 2014 • Structures protect the pathway and bank from erosion while vegetated components provide a softer aesthetic and naturalized areas for fish and wildlife habitat • Edworthy Park <ul style="list-style-type: none"> • Work on the flood-damaged Edworthy Park – Sovereign Cr. regional pathway commenced in September 2014 with replacement of the most severely affected portion of the pathway; • Coordination with and construction assistance from CPR, as well as reconstruction of pathway alignments, fencing installation and landscape repairs; initial repairs to this section of pathway are anticipated to be complete by Fall 2014; landscaping will be carried out in Spring of 2015
Transportation	<p>Transportation Infrastructure</p> <ul style="list-style-type: none"> • Elbow River Pedestrian Bridges Replacement steel tower and deck panel installation complete at all bridges; substantial completion expected for December 2014 <p>Roads</p> <ul style="list-style-type: none"> • Pavement and Sidewalk Reconstruction engineering investigations completed for 5 locations • Slope Stabilization construction in progress at 2 locations (Highfield Road SE, Trafford Cr NW) • Centre Street Bridge scour remediation completed and bridge deck hangers repaired <p>Transit</p> <ul style="list-style-type: none"> • South LRT Recovery tunnel lighting replacements completed; Construction and design

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	work underway in several locations (Cemetery Hill, Erlton Station).
Corporate Services	<p>IT</p> <ul style="list-style-type: none"> Phone restoration 95% complete; restoring a number of software packages for Contact Centre applications in progress and will be completed by the end of Q4 2014 Inventory of all IT equipment destroyed during the flood has been completed; replacement equipment can be ordered, and insurance claims finalized <p>Fleet</p> <ul style="list-style-type: none"> Many replacement units were put into service this summer Alternate options were developed to replace units that are no longer being made by the vendors

The following table provides a *sample* of projects by reported status.

Project Status	Status Definition	Projects
Complete	Project complete; fully restored to pre-disaster condition	<p>Boat Launch Repairs (3 sites)</p> <p>Building Repairs to Alberta Trade Centre, Old City Hall</p> <p>Calgary Police Service (Admin Building Restoration and Patrol Vehicle Replacement)</p> <p>Calgary Zoo Clean Up</p> <p>Park and Park Building Restoration (Baker Park, Col.Walker House @ IBS, Douglasdale Park, Griffith Woods Washrooms, Prince's Island Buildings, Stanley Park, Tuscany)</p> <p>Pathways (Glenmore @ Heritage Dr, Stoney Trail Underpass)</p> <p>Roadway Repairs to Macleod Trail (25Ave to Victoria Bridge), 25Ave, Highfield Road, Erlton St, Erlton Rd</p> <p>Stanley Park Outdoor Pool Repairs</p> <p>Underwater Bridge Inspections and Assessments</p>
Substantially Complete	Major functionality restored but significant work remaining to fully restore to pre-disaster condition	<p>Building Repairs to Admin Building, EMS#3 Building, Municipal Building</p> <p>Calgary Transit (Victoria Park Garage, Erlton/Victoria Park LRT Stations)</p> <p>Calgary Zoo Building Restoration</p> <p>Centre Street Bridge Deck Hanger Replacement</p> <p>Critical Erosion Sites (Memorial Dr/19St, Douglasdale, Diamond Cove)</p> <p>Park and Park Building Restoration (Bowness and Carburn Parks Depots, Carburn Park, Lindsay Park, Poppy Plaza, Reader Rock, Sue Higgins Park)</p> <p>Pathways (Douglasdale to Sue Higgins Bridge, Elbow River 9Ave to 25Ave)</p> <p>Roadway Repairs to Heritage Drive</p>
In Progress / Under Construction	Repairs or reconstruction underway	<p>Bonnybrook Waste Water Treatment Plant Restoration</p> <p>Calgary Transit (South LRT Corridor Recovery)</p>

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Project Status	Status Definition	Projects
		Critical Erosion Sites (52St/Home Rd, Inglewood, Sunnyside) Elbow River Pedestrian Bridge Replacement (3 at Sandy Beach, Riverdale/Sifton Blvd, Rideau Park) High Priority Erosion Sites Major Park Restoration (Bowness, Prince's Island) Park and Park Building Restoration (Griffith Woods, Pearce Estate Park, Sandy Beach, Stanley Park Buildings) Network Hardware Replacement and Phone System Restoration Storm Water Outfalls Pathways (Alyth Bridge @ Ogden Road, Bowness Park @ 85St, Douglasdale @ Enmax Substation, Douglasdale Park to 130Ave, Sue Higgins Park to Anderson Rd/Lafarge) Replacement Boat Launch (Quarry Park)
In Design/Tendered	Design or tendering for infrastructure recovery underway	Park and Park Building Restoration (Beaver Dam Flats, Weaselhead) Maple Ridge and Shaganappi Golf Course Pump House Repairs Pathways (16Ave NW to Hextall Bridge, East Bowness Train Bridge, Edworthy Park to Sovereign Cr SW) Replacement Boat Launch (Shouldice Park)
Planning/Initiated	Project planning underway	Basement Restoration for Admin Building and Alberta Trade Centre Moderate Priority Erosion Sites Park and Park Building Restoration (12 Mile Coulee, Bowmont, Inglewood Bird Sanctuary) Pathways (Refinery Park) Shouldice Artificial Turf Field Repairs
Pending/Not Started	Project awaiting approval to proceed	Heritage Drive Top Lift Paving (2015) Nose Hill Park/Shaganappi Tr Slope (2015)

All recovery projects may be viewed on the Interactive Map that is available on **calgary.ca**. It is updated on a monthly basis with brief status information on all recovery projects.

The url for this site is: http://www.calgary.ca/_layouts/cocis/calgarymap/calgarymap.aspx.

From a cost management perspective, while there is some variance at the individual project level, the Municipal Infrastructure Recovery program continues to see actual costs within the approved program budget. The overall financial program estimate continues to be periodically reviewed. Recent efforts at re-estimating the program has resulted in a revised budget of \$424.9M. This is a decrease of \$20.2M from the original estimate and approved budget of \$445.1M. This new estimate does include \$16M of work to improve resiliency. Please refer to

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Attachment 4 and 5 for additional information on the capital budget and actual costs for the Municipal Infrastructure Recovery program.

Regarding funding, work continues with the province and insurers to ensure reimbursement of costs incurred to repair damaged infrastructure.

In terms of projects that are expected to be largely funded by insurance, Work is progressing well and most are expected to be complete within the next 3 to 6 months. The remaining work is largely to complete building repairs and restoration. Work continues with insurers to negotiate reimbursement of costs as per policies that are in place.

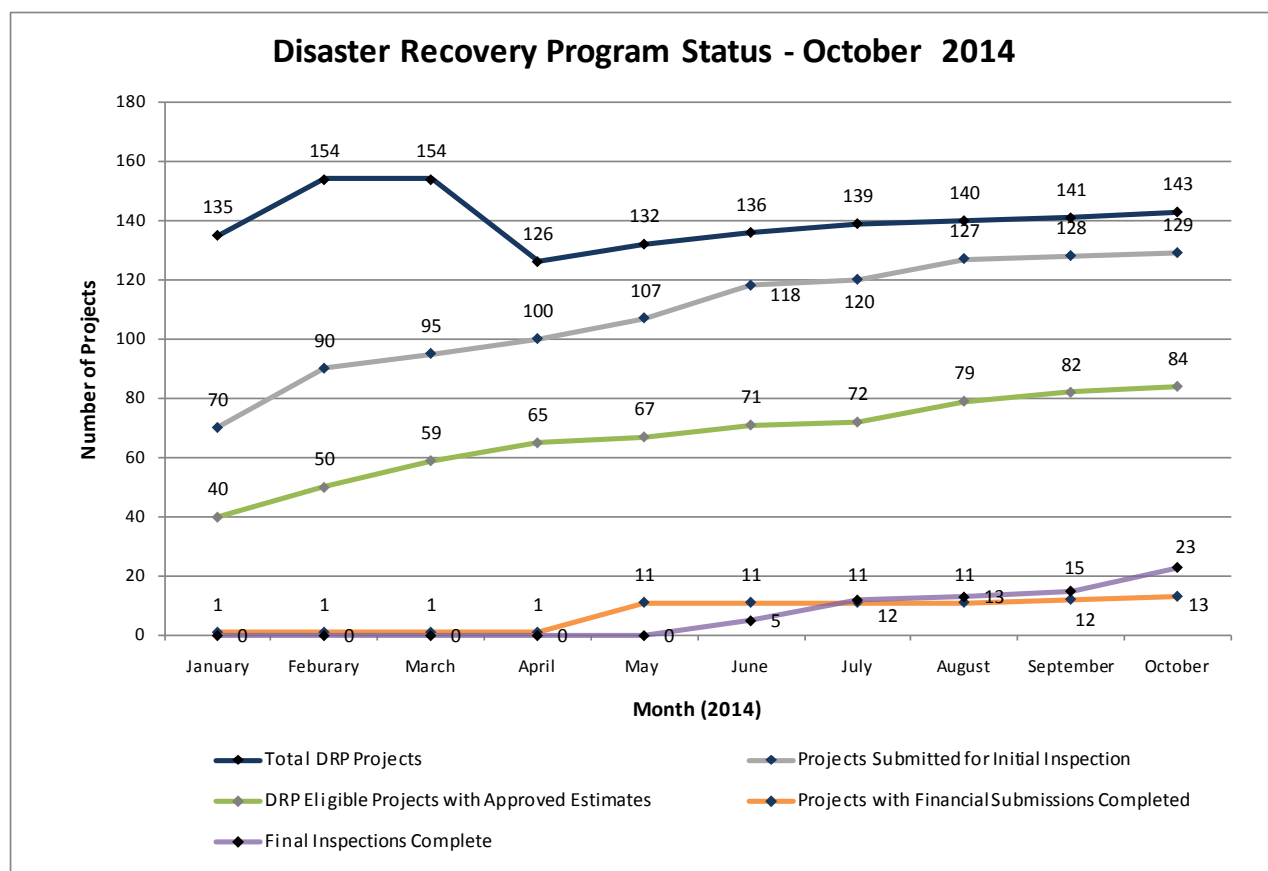
There are two major provincial programs available to fund infrastructure recovery projects: the Disaster Recovery Program (DRP) and the Flood Recovery Erosion Control (FREC) program. Both have specific requirements and a defined process to follow to receive either reimbursement of costs (DRP) or a grant (FREC).

Initial steps of the DRP process are underway. Inspections are required at the start and completion of every project. Efforts to expedite the inspection process have been jointly undertaken by The City and LandLink. Financial Submission for reimbursement is done upon completion of the project and all inspections.

The chart that follows shows progress being made with the provincial Disaster Recovery Program. As of the time writing this report there are 143 projects that are being processed through the DRP.

The total number of projects does vary from month to month due to consolidation of projects and efforts to ensure alignment between projects and financial submissions for reimbursement.

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There is an overall trend upwards in all the lines which indicates progress in processing projects through the Disaster Recovery Program. There is more documentation to be reviewed by The Province as part of the Initial Inspection process to approve reimbursement of costs incurred by projects. The City is just beginning the final steps in the process for some projects (i.e. Final Inspection and Financial Submission for Reimbursement).

Regarding the FREC program, tracking of costs and periodic reporting is required as a condition of receiving grants.

In summary, considerable work remains to fully restore damaged municipal infrastructure damaged to pre-flood functional condition. There must be a continuation of efforts to prepare and submit eligible project costs to provincial programs and insurers in order to recover costs. These efforts are particularly important to ensure funding is not jeopardized.

Infrastructure recovery will continue beyond the scheduled dissolution of the Recovery Operations Centre (ROC) in June 2015. Part of the closure of ROC includes work to determine the appropriate level of governance and accountability that will remain in place until the work program is completed. This includes ongoing monitoring and reporting of infrastructure recovery projects, alignment to budget and funding.