

# INFORMATION REPORT

<b>TO:</b> Chair and Members Public Works Committee	<b>WARD(S) AFFECTED:</b> WARD 8
<b>COMMITTEE DATE:</b> September 6, 2011	
<b>SUBJECT/REPORT NO:</b> Ward 8 Flooding - Fessenden Neighbourhood Stormwater Management (PW11063) - (Ward 8) (Outstanding Business List Item)	
<b>SUBMITTED BY:</b> Gerry Davis, CMA General Manager Public Works Department	<b>PREPARED BY:</b> Nahed Ghbn (905)546-2424, Extension 6413
<b>SIGNATURE:</b>	

## Council Direction:

On June 29, 2011, on a Motion, Council directed staff to report back at the next Public Works Committee meeting in response to the issue raised by the delegates regarding the Fessenden neighbourhood flooding.

## Information:

The purpose of this information report is to respond to the above Council direction and provide a summary of the ongoing City action to respond to the flooding issues raised by the delegates of Fessenden Neighbourhood.

## Background

In 2006 the Mountview Neighbourhood drainage study was initiated within a larger study area bounded by Scenic Drive, Upper Paradise Road, and Stone Church Road. This area drains to the Chedoke Creek in the Ainslie Wood / Westdale Neighbourhoods and the hydro corridor, along a tributary of Chedoke Creek. The goal of this drainage study was to assess the drainage condition over the entire study area, review and investigate the capacity of the storm drainage system and to identify potential problem areas and solutions. The study was completed in 2008.

Following from the larger Mountview study area, the first specific area of detailed study to occur was the Sanatorium Road Drainage and Stormwater Management Improvement Environmental Assessment project initiated in 2007. Although the Sanatorium study draft was substantially completed in December of 2007, a request for a Part II Order to address a stakeholder's concerns was registered in March of 2008. Resolution of the Part II Order request was completed in June of 2010.

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The Fessenden area was identified as one of the priority areas by the Mountview drainage study, recommending the area for further analysis to develop a detailed concept for remediation. As a result, the Fessenden Neighbourhood Stormwater Management Environmental Assessment project was initiated in November 2009.

The Fessenden Neighbourhood Stormwater Management EA is following the Schedule "B" Class Environmental Assessment process; as such, there are three required phases: 1, 2 and 5 as detailed in the Municipal Class EA manual:

- Phase 1 - Problem or Opportunity has been completed.
- Phase 2 - Alternative Solutions is currently underway to consider the findings of the Public Information Centre on August 18, 2011, and will culminate with a file report, which will contain the recommended solution. As part of Phase 2, we have developed and investigated different remedial options including: distributed or widespread implementations (e.g. rain barrels, backwater valves and other City's Plumbing Protective Program); increased sewer capacity; retrofits to the sewer inlets (increased inlet capacity); underground stormwater detention storage; flow diversion and surface stormwater detention storage.
- A dual drainage model (a model of the sewers and overland flow drainage system) has been developed for this area. The purpose of this model is to digitally replicate the flooding experienced within the study area. The model has been calibrated to observations (provided through discussions and photographs) made by residents during the August 19, 2005, storm. The model was then used to investigate the effectiveness of various potential measures to remediate the flooding problems. The modelling portion of this study was largely completed by February 2011.

It is anticipated that the Phase 2 works will be completed by Quarter 4 - 2011.

Residents' Concerns

Following the storm event on June 8, 2011, the residents of Fessenden Neighbourhood raised their concerns regarding the City's priorities and actions to mitigate flooding problems in this area.

An initial meeting to outline the Residents' flooding history was held at City Hall on June 17, 2011, with residents, Councillor Whitehead and staff. Minutes of meeting of June 17, 2011, are attached as Appendix "A".

The Residents also attended the Public Works Committee on June 20, 2011, as a delegation. Staff were directed to report back at the next Committee meeting (September 6, 2011) in response to residents' questions on flooding. Comments and questions were also handed out from a local engineer, included in Appendix "A".

A second formal meeting was arranged on July 14, 2011, at McNab Recreation Centre, 145 Magnolia Drive - Room 1, to meet with residents. At this meeting, staff provided a comprehensive presentation and display panels on the status of ongoing Fessenden Neighbourhood Stormwater Management EA, existing drainage system, causes of flooding, study work completed to date, video of the Developed Storm Drainage Model results and the next steps. Staff also Introduced Protective Plumbing Program

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Information for back water valve installation and answered the questions raised by the residents. Appendix "B" represents the formal response to the residents' June 17<sup>th</sup> questions was also provided to each of the residents at the July 14<sup>th</sup> meeting.

At the July 14, 2011 meeting the following was agreed upon:

- Undertake a Public Information Centre as soon as possible in August 2011 with residents, to present the developed remedial options and recommended solutions, (In coordination with Ward 8 Councillor) and finalize the EA report in 2011.
- Continue negotiating process with the School Board for the required land for the creation of the proposed storm pond.
- Establish a Coordination Liaison Committee (CLC) with six representatives from Fessenden neighbourhood area.
- The City to complete the EA project as soon as possible in 2011.
- To accelerate the implementation of the recommended solutions to start as soon as possible subject to budget approval and land acquisition.

Next Steps:

- Enrol the flooded homeowners in the Plumbing Protective Program to install a backwater valve – immediately as requested.
- Contact the Portfolio Management Committee to proceed with negotiation with the school board for the required land for the storm pond option.
- The City is working to finalize the current Fessenden EA study - Q4 2011.
- The implementation plan for the recommended solution and the corresponding schedule will be subject to annual budget approval and land acquisition process.
- Updated Schedule:
  - Complete the Fessenden EA Quarter 4 - 2011
  - Detail design, (existing project funds plus 2012 capital budget) Quarter 4 - 2011, 2012
  - Budget land acquisition costs and storm pond Construction (2012 capital budget) Quarter 4 - 2011, 2012
  - Preparations and preconstruction works Storm pond initialization Quarter 4 - 2012
  - Construction - finalize pond and construct New storm pipes within neighbourhood road Allowances - 2013 capital budget 2013

The above proposed schedule is subject to required approvals and related capital budget approvals by City Council. It should be noted, that external approvals or coordination are required, such as Ministry of Environment and the respective Conservation Authority for example.

- Communication - continue to provide Resident updates through the Councillor's office as available.

**Forestgate / Greencedar / Magnolia Flooding Issues June 08, 2011**  
**Initial Meeting Friday June 17, 2011 3:30 P.M.**  
**Room 222 Hamilton City Hall**

<b>Attendees:</b>	<b>Residents in Attendance</b>
Len Bolder	12 Forestgate Drive
Marg Jameson	12 Forestgate Drive
Anne Flanagan	15 Forestgate Drive
Bill Chambers	19 Forestgate Drive
Al Shelley	24 Forestgate Drive
Bev Shelley	24 Forestgate Drive
Janet MacCullouch	27 Forestgate Drive
Robert MacCullouch	27 Forestgate Drive
Dan Clark	32 Forestgate Drive
Heather Harding	60 Goldwin Street
Allison MacMullin	14 Greencedar Drive
Joe Spano	26 Greencedar Drive
Susan McNalley	332 Magnolia Drive
Diane Sillars	332 Magnolia Drive
Allan Rousseaux	333 Magnolia Drive
Dana Rousseaux	333 Magnolia Drive
Lucy Pycz	334 Magnolia Drive
Roman Pycz	334 Magnolia Drive
Audrey Muir	335 Magnolia Drive
Bill Walker	335 Magnolia Drive
Amy Aboagye	338 Magnolia Drive
Duke Aboagye	338 Magnolia Drive
Fran Hunter	338 Magnolia Drive
Neil Cole	339 Magnolia Drive
Adelina Popaj	340 Magnolia Drive
Terry Ryan	341 Magnolia Drive
Steve Johnston	344 Magnolia Drive
Garnet Connell	345 Magnolia Drive
Mary Byrne	347 Magnolia Drive
Terry Maurice Byrne	347 Magnolia Drive
Pat Fortney	350 Magnolia Drive
Helga Love	351 Magnolia Drive
Gordon Love	351 Magnolia Drive
Dini Balych	352 Magnolia Drive
Brett Canton	353 Magnolia Drive
Mike Safadi	356 Magnolia Drive

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Nabila Safadi	356 Magnolia Drive	
Monthathar Abbas	357 Magnolia Drive	
Keith Stephenson	358 Magnolia Drive	
Bonnie Campbell		
Mr. Rankin		
Mrs. Rankin		
Chris Mills	31 Forestgate Drive	Regrets

City Staff	Councillor Terry Whitehead	Ward 8 / Chair
Robert Norman		
Udo Ehrenberg		
Bob Fitzpatrick		
Gavin Norman		
Tony Sergi	Regrets	
Chris Murray	Regrets	
John McLellan	Regrets	

3:40 pm – Call to Order

Councillor Whitehead opened dialogue and suggests all of the residents introduce themselves and state how they have been affected over the years by the floods.

Each resident advises how they have been affected by the floods accordingly.

3:45p.m. Introduction of City Staff by department and Title.

3:48pm – Councillor Whitehead starts the discussion by stating what we hope to accomplish during the meeting; the residents need to know what has been done, what can be done in the future, and what we can do in the interim.

3:50pm – Residents open forum by discussing past action and their concerns that while there have been many studies, nothing has actually been done to resolve the issue. Anne Flanagan indicated to the group that although resident Chris Mills who is a professional engineer could not attend he did include an open e-mail document which was offered for discussion and the information document was shared.

Residents continue to address their concerns by advising that their insurances will not continue paying out for this. Some residents have already been advised by their insurance carrier that they will no longer be covered for flooding. Residents make reference to the two **P.I.C.S** and the **Independent Study** that have been conducted and

asked pointed question of staff with regard to the PICS and Study which outlined a number of recommendations. Residents are requesting an accounting of what has and has not been implemented / accomplished in the years since this information was presented.

**Anne Flanagan** indicated that in the PIC date May 9, 2001 a detailed assessment of the flooded areas was indicated and potential remedial measures were listed:

1. Incorporate additional storm sewers.
2. Incorporate retention storage into the drainage system.
3. Incorporate additional inlets to the current storm sewers.

Mrs. Flanagan went on to speak of PIC 2 dated September 20, 2006. This PIC indicated the high priority area was identified as being:

C.9. Magnolia and 4.5 Daisy- 4.11 Greencedar - 4.8 Forestgate -  
4.12 Guildwood. Three potential alternatives were also indicated:

1. Major Flow Redirection Retention storage
2. Retention Storage areas in Fonthill Park and Lynwood Road (Sir Alan MacNab grounds).
3. Construction of new storm sewers to accommodate future issues.

Anne Flanagan went on to refer to the Independent Community Panel Report to the City of Hamilton dated September 2006. In the **Executive Summary** of this document it clearly states:

**'An inventory of areas previously impacted by severe storms or those areas with the potential of being impacted needs to be developed. A comprehensive Flood Reduction Program must be implemented.'** Mrs. Flanagan also referred to the recommendations as outlined in #4, #9 and #14 of this extensive report.

**Bob MacCullough** asked when will things be fixed and where are we on the priority list at the present time. Mr. MacCullough indicated that the residents need something done now. Pumps or whatever measures may be taken to protect residents from further issues of this nature. Mr. MacCullough indicated that 2014 is unacceptable! He also indicated that residents have asked for storm sewer data and we never received the material.

**Joe Spano** who resides on Greencedar indicated that he now has no insurance. He can no longer get coverage.

**Mike Safadi** who resides on Magnolia indicated that he had a backwater valve installed but it failed. He had mud in his basement.

**Mary Byrne** who has been flooded four times spoke about the damage done to the foundations of our homes and real estate prices. Mary also spoke on the impact that the Link has had since it opened.

**Anne Flanagan** spoke again with regard to safety issues and the emotional impact that is involved. People are afraid to leave their homes or go for vacation for fear there will be a storm in their absence and what additional damage their homes and property will endure.

**Bill Chambers** spoke about the consistent flooding in the Hadeland and Upper Paradise area.

**Allison** who lives on Greencedar spoke of the frequent flooding and the impact that it has had on her family's lives.

**Chris Mills** who was not able to attend sent an e-mail with a number of questions:

1. Has the storm water system been subject to a Dual Drainage System?
2. What was the existing storm sewer design to?

Chris indicated that our neighborhoods' were indicated as "High Priority" in the September 2006 PIC yet the City has done nothing about it to date.

**Councillor Whitehead** asks the City Staff, "Have we taken too much time to implement the capital plan?" He states that there were so many recommendations made but how many are actually implemented? How many have not been implemented? He asks what we can do to address the concerns of the residents before they leave this room. It may take a few years before a solution is in place, but what do we do during the interim?

4:07pm – After the residents begin to discuss additional concerns, the Councillor states that it is clear there is anxiety, and it is time for Staff to take the stand and address the matter.

4:08pm - In response to Mr. Mills' concerns in the report, City Staff respond that they have assembled a computer model study for the Lincoln Alexander Parkway, Upper Paradise, and Mohawk Road West. Items A-E is completed. The residents ask when this was done, and City Staff could not provide an answer.

4:10pm – **Councillor Whitehead** states that the model was not designed for the current climate. To which the residents agree and provide furthers concerns as to their anxiety and the fact that nothing has been done about the overland flow issue. They ask when it will be done. Councillor Whitehead responds stating that we need to find out

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why it has taken so long for these issues to be addressed, and turns to City Staff for a response.

4:16pm – **City Staff** states that they are going to deliver a study, and while they cannot say why it has taken so long, they will assure that it gets done in a timely manner.

4:17pm – **Councillor Whitehead** responds stating that the Environmental Assessment has begun and that this “requires time” – he mentions that it will be done with the 2012 or 2013 budget.

4:20pm – **The Residents** ask when the West Mountain Storm Study was completed. City Staff cannot answer this, and the residents ask why this investigation took 6 years. The City Staff cannot answer this either, stating that they are not part of the original staff that took part in the project.

4:21pm – **Councillor Whitehead** states that he was hoping these were the same people, and that there needs to be another meeting with Staff members such as Tony Sergi and others who were involved in regards to the history to answer the residents’ questions.

4:23pm – **City Staff state that the Design work will be done now, and the Capital work will be done next year.**

4:24pm – **The Residents** state that, “We’re talking 2014...maybe...” and go on to advise the Councillor and City Staff that there has to be something done about this sooner.

4:25pm – **Councillor Whitehead** states that there is a “capacity issue” and it has to be done through design. He then goes on to ask, “What have we done in 6 years?” He states that City Staff have done studies and more studies, cleaned the sewers, and created a higher standard of maintenance in terms of monitoring the sewers. Councillor Whitehead states that the level of maintenance needs to be better, as these are hot spots and there are 2 issues at hand; clogged catch basins and poor infrastructure.

4:29pm – **Councillor Whitehead** requests that we co-ordinate another meeting to find out what took so long. He goes on to state that there needs to be an Environmental Assessment completed because this is a more complex issue, and asks why 50-60% of the recommendations are not in play? Have we spent too much money on studies? He suggests that for short term relief, we step up the maintenance in this area.



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4:31pm – **The Residents** state “that is not enough!” Residents go on to discuss further concerns with the Councillor and City Staff. Councillor Whitehead states that we are “losing focus” and we are not going to get all of the answers now. Councillor Whitehead states that he will request that the Resident Group’s issues be placed on the agenda to have City Staff make a report. He states that “now’s the time to pose the questions” so that answers to them can be addressed during the follow-up meeting. Councillor Whitehead mentions that we need a presentation to find out what has been done, what took so long, what will be done and what we can do in the interim, and requests that we have a follow-up meeting with regards to the flooding. Anne Flanagan requested permission to make a presentation to the Public Works Committee. Councillor Whitehead requested that Anne Flanagan make a deputation to the Public Works Committee at the next meeting which is scheduled for Monday June 20, 2011 at 9:30 a.m. in Council Chamber at Hamilton City Hall. Other residents advised that they will as well attend this meeting.

4:39pm – City Staff state that this will take approximate 6-8 weeks, and the residents recommend Sir Allen MacNab as the location so that they can easily get there. Councillor Whitehead recommends that the residents find a spokesperson to do deputations at the Public Works meeting on Monday, June 20th. He mentions that he will then move a motion directing City Staff to respond and do a presentation for Public Works and then Council can move any motions needed.

4:41pm – Councillor Whitehead states to arrive at 9:15am at the latest so that he can ask for an exemption and allow them to speak. He then mentions that the Compassionate Grant Program is now available for them as well.

4:44pm – Adjournment

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**PROBLEM:**

- Since the flooding in 2005:
  - Residents are checking their basements every time there is a heavy rain and/or a thunderstorm
  - Residents are clearing debris from catchments during rain events to assist in preventing overland flow, which contributed to the flooding of several homes due to the design, as much as possible
- Flooding has occurred in the same areas in 2011. **This is not acceptable.**

**ACTIONS TAKEN:**

- Since 2005 City initiated a plan to install back-water valves (backflow preventers) on connections to homes. **This did not include the disconnection of the eaves trough downspouts or installation of sump pumps.**
  - Due to flooding in 2005 the City of Toronto initiated a program which included a subsidy to install back-water valves, disconnecting/capping the laterals (connection to storm sewer from ~~hours~~ <sup>homes</sup> sump pumps and disconnect the eaves trough down spouts.
  - The Toronto solution presents a short term, cost effective solution to the residents impacted by the 2005 flood.
- Hamilton initiated several studies/reports/reviews. Documents have been provided for review.
- Resolution of the flooding problem was identified as a "High Priority" in 2006.
  - As a "High Priority" item, it would be expected that the recommendations from the 2008 EA would be in the capital budget.
  - If this had been a "High Priority" it could have been a "shovel ready" project for Infrastructure Stimulus Funding (ISF).
    - NOTE: ISF program was extended as many municipalities put forward projects which were not truly "Shovel Ready". Hamilton is not an exception to this – see article in Hamilton Spectator discussing the "Shovel Ready" projects (date unknown).
- In the meeting held on June 17, 2011, residents were informed that the City completed a Dual Drainage Model.
  - Q: What were the results of this model? Kindly advise.
  - Q: When was this model completed? Kindly advise.
  - Q: What are the recommendations from this model? Kindly advise.

**Q: What other actions have been taken?**

**Q: Has the City engaged a consultant or their own staff to commence a preliminary design?**

**Q: In what year has this capital project been accounted for in the budget?**

- As a "High Priority" it is reasonable to assume that it would have been implemented by now. (6 years after initial flood, 3 years after EA filed.)

**NEXT STEPS:**

- As a "High Priority":
  - Set-up and Community Liaison Committee (CLC). This City has already done this in several communities. A third party mediator is requested.
    - CLC's meet in the evening at a local location close to the residents
    - Low cost solution, mediator approx. \$2,000.00 per meeting
    - Meetings are typically 2 hours long
    - Meeting minutes generated and circulated
    - Meetings held quarterly to provide updates and show progress
  - Set-up a website providing updates to all residents in the area.

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- Conveys progress made
- Can be linked to Councillor Whiteheads website
- Consider initiating a program now to fully subsidise the disconnecting of down spouts, installation of a plug on the drain to the storm sewer, and a sump pump of all homes recently flooded.
  - These should be considered high priority homes since it has occurred twice.
  - Home owners need to present "proof of damage" through insurance or other means acceptable to the City.
  - **This is a good time to do it as most basements are currently torn up due to the flooding.**
  - Presents a low cost alternative to assist in addressing the actual problem
  - Provides the City with some time before digging up the sewers and installing sub-terrain overflows which carry the flood water to an acceptable underground storm retention system
- Consider underground storm retention system on the property of Sir Allan MacNab High School
  - Permits continued use of grounds
  - Eliminates concerns expressed by School Boards in other communities regarding surface storm retention ponds – security, liability, etc.

**CONCERNS:**

- City is "hiding" from the problem rather than addressing it. (6 years since last flood)
  - Funds are available through government programs.
  - Had the project been further along it could have been considered for ISF.
  - No more studies, commence a Schedule B or C Municipal Class EA and go forward with a preliminary design. This technology is not changing rapidly so the time spent now will not be lost.
- City staff in meeting on June 17, 2011 was not educated on the matter and could not answer many questions. One resident overheard a City staff member ask "Where is this street?" while leaving the meeting.
- It appears that the City is not considering this a "High Priority".
  - The studies indicated the need for another storm retention pond at the intersection of Sanatorium Road and Scenic Drive.
  - Oddly enough this does not appear on the plans of the developer for this land.
- Required construction funds have not been put forward in the capital budget since completion of the EA in 2008.

**ATTACHMENTS:**

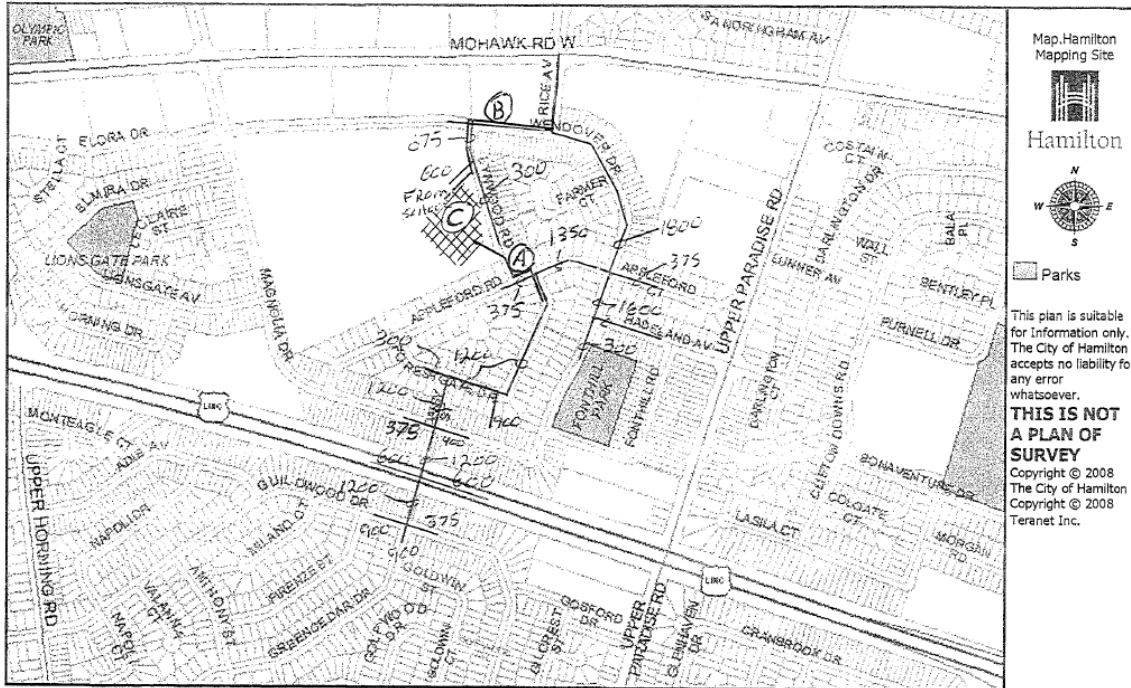
- 1) Map of area indicating the size and location of the storm sewers in the neighbourhood. Source: City of Hamilton Geographic Information System (GIS).

**NOTES:**

- a. Slopes/Grades of pipe not known
- b. Not an Engineering Drawing
- c. Road elevations not shown, but clearly indicated by flood zones in earlier reports.

Submitted by Chris Mills, aka King  
a resident of Forestgate Dr.  
June 20, 2011

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600 m

- Produced by Guest 22:23 6/17/2011
- ① APPROX. 235m IN LENGTH
- ② APPROX. 259m IN LENGTH
- ③ LOCATION OF SUB-SURFACE STORM RETENTION (WITH CONTROLLED DISCHARGE)

- STORM SEWER SIZE FROM HAMILTON GIS. IN mm
- ALL FLOWS NORTH.

[http://map.hamilton.ca/interactivemaps/commands/printadvanced/print\\_preview\\_landscape.asp](http://map.hamilton.ca/interactivemaps/commands/printadvanced/print_preview_landscape.asp)

17/06/2

**Question:**

**1) Since we were deemed "High Priority" in September, 2006, where are we on the Capital Budget list? Mr. Udo Ehrenberg, P. Eng; mentioned something about 2014. This is totally unacceptable!**

**Answer:**

Budget for the Fessenden Neighbourhood Drainage Analysis Assignment has been in place since 2008. Budget for the Detailed Design, Tendering (programmed for 2012) and Construction (programmed for 2013 to 2014) will be recommended to Council as part of the 2012 Budget Deliberations. All budget requirements are subject to Council approval. Timing of Construction projects are also subject to permitting and approvals (Ministry of the Environment, Conservation Authority, Site Plan Approval, etc.)

**Question:**

**2) Hamilton obtained money from the Infrastructure Stimulus Funding (ISF). How were the projects prioritized? Who sat on the committee? Did the Councillors get to name projects in their own wards? How were (2) Recreation Centres: Sir Allan McNab and Westmount, chosen over aging infrastructure in the immediate vicinity?**

**Answer:**

The Federal and Provincial governments jointly announced/launched the Infrastructure Stimulus Program (ISF) on April 14, 2009, with a submission deadline of May 1, 2009; that resulted in more than 2,700 applications from Ontario municipalities

Project eligibility was for the "rehabilitation or retrofit of existing infrastructure assets, or the construction of new infrastructure assets in eligible categories, that can be completed before March 31, 2011." Fessenden Stormwater projects were not ready for submission to this program at that time in 2009.

Eligible projects as per the program requirements were required to be "shovel ready" to be considered. All EA's and planning studies had to be completed as a condition of submission.

Candidate projects were submitted by a cross-departmental team to Council on April 27, 2009. Final selection of projects was done by the Federal and Provincial Governments.

**Question:**

**3) When did the Environmental Assessment begin? We are having difficulty finding that out! There are five phases. Which phase are we in now? Has there been public consultation?**

**Answer:**

The Fessenden Neighbourhood Stormwater Management EA was initiated in November of 2009. The formal public consultation (PIC) is tentatively scheduled for September 2011.

The EA is currently at end of Phase 2. The subsequent step is Phase 5 (Implementation) barring any stakeholder objection and subject to funding availability.

The following is a chronology of activities undertaken since the flooding events of 2005.

**September 2006 to May 2008** - In September 2006 the Mountview Neighborhood Drainage Study was initiated and subsequently completed in May of 2008. The goal of this drainage study was to assess the overall drainage conditions in the study area; review and investigate the capacity of the storm drainage system and to identify potential problem areas and solutions. Consultation was a component of the study. Three Public Information Centres occurred during 2006.

The Mountview study area was much larger than the Fessenden Area. Mountview is generally bound by Scenic Drive, Upper Paradise Road, and Stone Church Road that drains to Chedoke Creek in the Ainslie Wood / Westdale Neighbourhoods, and the hydro land corridor along a tributary of Chedoke Creek.

The Mountview drainage study findings identified the Sanatorium Road Area and the Fessenden Area as priority areas recommended for further refinement and analysis to develop detailed flood remediation solutions from a Municipal Class Environmental Assessment (EA) perspective and process. This EA process must be followed for all infrastructure upgrades and development works as this is a legislated requirement. Three Public Information Centres occurred during 2007

**December 2006 to June 2010** – While the Mountview Neighbourhood Drainage Study was still active, the Sanatorium Road and Stormwater Improvement EA was initiated. Although substantially completed in December of 2007, a request for a Part II Order to address a stakeholder’s concerns was registered in March of 2008. Resolution of the Part II Order request was completed in June of 2010.

As detailed design of the Sanatorium Road and Stormwater improvements project were developed this year it was determined that the preferred alternative had to be changed. An addendum to the Sanatorium EA will be released in 2012 such that detailed design may be completed.

**November 2009 to present** - The Fessenden Neighbourhood Stormwater Management EA project was initiated in November 2009. The project is ongoing and following the Schedule "B" Class EA process. Below are the three required phases: 1, 2 and 5 as detailed in the Municipal Class EA Manual.

- Phase 1 – Problem or Opportunity has been completed.
- Phase 2 – Alternative Solutions is currently underway and will culminate with a Public Information Centre and a File Report which will contain the recommended solution(s). We are prepared to have the PIC at this time and anticipate Phase 2 being complete shortly thereafter.
- Phases 3 and 4 – Not required for Fessenden Class EA
- Phase 5 – Implementation of the preferred alternative.

We are finalizing the project analysis report and planning for a Public Information Centre (PIC) in September of 2011 to present the findings including alternative solutions, and the recommended preferred alternatives.

All project correspondence (emails, letters, conversations, etc.) as well as the June 17, 2011 City Hall meeting; July 14<sup>th</sup>, 2011 Community meeting; and the planned September 2011 Public Information Center meeting are considered consultation in the context of the Municipal Class EA Process.

**NEXT STEPS :**

- Detailed Design, Permits/Approvals and Tendering (programmed for 2012) \*
- Land Acquisition (2011 and 2012)\*
- Construction (programmed for 2013 to 2014)\*

\* All budget requirements are subject to Council approval. Construction projects are also subject to permitting and approvals (Ministry of the Environment, Conservation Authority, Site Plan Approval, etc.)

**Question:**

**4) In the meeting on June 17, 2022, residents were informed that the City completed a Dual Drainage Model.**

- **What are the results of this model?**
- **When was this model completed?**
- **What are the recommendations from this model?**

**\*\*\*Refer to handout by Chris Mills, P. Eng. distributed at Public Works committee meeting June 20, 2011.**

**Answer:**

A dual drainage model (a model of the sewers and overland flow drainage system) has been developed for this area. The purpose of this model is to digitally replicate the flooding experienced within the study area. The model has been calibrated to observations (provided through discussions and photographs submitted by residents during the August 19<sup>th</sup> 2005 storm). It showed areas of the neighbourhoods where surface water accumulates which is shown in video format at the July 14<sup>th</sup>, 2011 presentation to the residents.

The model was then used to investigate the effectiveness of various potential measures to remediate the flooding problems. The investigated measures include:

- Distributed or widespread implementations (e.g. rain barrels, backwater valves etc.);
- Increased sewer capacity;
- Retrofits to the sewer inlets (increased inlet capacity);
- Underground stormwater detention storage; and
- Flow diversion and surface stormwater detention storage.

The modelling portion of this study was largely completed by February 2011.

**Question:**

**5) Has the city engaged a consultant or their own staff to commence a preliminary design?**

**Answer:**

The City has retained McCormick Rankin Consultant (MRC) to undertake the Fessenden EA project. The draft report is ready to be finalized directly after a scheduled public meeting with the residents, anticipated for September 2011. MRC will deliver a



Conceptual Design. The assignment for detailed design will be awarded in the next phase.

**Question:**

**6) In what year has this capital project been accounted for in the budget?  
\*\*\*Please refer to handout by Chris Mills, P. Eng. June 20, 2011, Public Works committee meeting.**

**Answer:**

Budget for the Detailed Design, Tendering (programmed for 2012) and Construction (programmed for 2013 to 2014) will be recommended to Council as part of the 2012 Budget Deliberations. All budget requirements are subject to Council approval. Construction projects are also subject to permitting and approvals (Ministry of the Environment, Conservation Authority, Site Plan Approval, etc.)

**Question:**

**7) What other actions have been taken since major flood August 2005?**

**Answer:**

- Mountview Storm Drainage Study, Sanatorium Road and Stormwater Class Environmental Assessment, Fessenden Neighbourhood Stormwater EA.
- Conducted sewer Closed Circuit Television (CCTV) Video Inspections to confirm sewer connectivity and pipe conditions.
- Conducted regular Operation and Maintenance work.
- Fulfilled the requirement for Heritage Assessment as per the Ministry of Tourism and Culture.
- Completed the dual model to fully understand the flooding event and test the proposed remedial measures at different design conditions.
- Developed number of flood remedial measures and draft recommended solutions.
- Initiated discussion with school board for potential acquisition of land required for the SWM pond.
- Enrolled the flood victims of June 8/11 storm event for eligibility to the Plumbing Protective Program to install a backwater valve.
- 22 Sanitary Sewer Manholes have been sealed in July 2011 to prevent entry of ponded rainwater into the sanitary sewer system.

**Question:**

- 8) - ***What are your immediate plans to alleviate the concerns of the homeowners?***
- ***What are your short-term plans to deal with the next storm?***
- ***What are your long range plans? Please discuss plans and action dates.***

**Answer:**

The City's immediate plans to alleviate the concerns of the homeowners include finalizing the current EA study. The implementation plan for the recommended solution and the corresponding schedule will be presented to City Council, for approval through the annual capital budget process.

The homeowners in this neighbourhood are eligible to be enrolled in the Plumbing Protective Program to install a backwater valve on their sanitary sewer lateral and the City Disaster Relief Assistance Program.

Road Operations, Catch basin cleaning hotlist maintains unobstructed inlets and drainage before and during severe rainfall.

Installed seals on 22 sanitary manholes in road depression areas which reduce the volume of run-off entering the sanitary sewer system..

Educational Information regarding flooding, drainage and preparedness has been made available at :  
[http://www.hamilton.ca/CityDepartments/PublicWorks/Environment\\_Sustainable\\_Infrastructure/StrategicPlanning/StrategicEnvironmentalPlanningProjects/FloodProgram/Flood+Aware+Preparedness+Program.htm?WT.mc\\_id=FloodAware&WT.hamilton\\_redirect\\_friendly=1](http://www.hamilton.ca/CityDepartments/PublicWorks/Environment_Sustainable_Infrastructure/StrategicPlanning/StrategicEnvironmentalPlanningProjects/FloodProgram/Flood+Aware+Preparedness+Program.htm?WT.mc_id=FloodAware&WT.hamilton_redirect_friendly=1)

**(GOOGLE SEARCH : "FLOOD AWARE HAMILTON" as an alternate )**  
A "Basement Flooding Guide" to assist residents during flooding events is currently under development.

Long range Plans are described in Question # 3-NEXT STEPS

**B1. Surge recommendation of 2006 what has been implemented?**

On September 1st, 2005, City Council directed the staff to establish the Independent Community Panel (ICP) to assist staff by reviewing the causes, effects and outcomes of

storm events and making recommendations to the City. A final report recommending 26 initiatives was presented to Storm Event Response Group (SERG) in September 2006 and Council in October 2006.

The ICP was reconvened and a second peer review process was initiated by SERG in to assess the progress of Hamilton’s stormwater management and drainage programs. On this second peer review, the ICP recognized the efforts of the City staff for stormwater management and the progress in implementing the 26 recommendations of 2006 review.

In 2009 the ICP commented on the status of the original 26 recommendations as follows, *“2. Hamilton has been addressing all of the 26 recommendations put forth by the ICP through the initial peer review process. The City of Hamilton has made considerable progress on a policy level by adopting the Water and Wastewater Master Plan (2006) and the Stormwater Master Plan (2007).”*

ICP submitted 23 additional recommendations for the City of Hamilton’s consideration.

The work is ongoing to address the 23 new recommendations.

**B2. What has not been implemented and why have some of the recommendations not been implemented?**

All 26 recommendations of the 2006 ICP Review are being addressed.

**B3. What of these recommendations have been followed up on?**

All 26 recommendations of the 2006 ICP Review are being addressed.

**B4. What has been accomplished in the 6 years since these issues have been identified as High Priority?**

Refer to the Independent Community Panel’s Report for findings of Hamilton’s Stormwater Management Program. (pages 96 to 106)

The report may be viewed at the following website.

<http://www.hamilton.ca/NR/rdonlyres/3978EDA2-C2AA-48A4-88F0-D701292EF7B1/0/HamiltonICP2009OfficialSubmission.pdf>

Refer to question # 7 for specific activities in the Fessenden Neighbourhood.

**Forestgate / Greencedar / Magnolia Flooding Issues July 14, 2011**  
**MacNab Recreation Centre Room 1**

<b>Attendees:</b>	<b>Residents in Attendance</b>	
	Anne & Val Flanagan	15 Forestgate Drive
	Dan Clark	32 Forestgate Drive
	Bill Chambers	19 Forestgate Drive
	Mary Jameson	12 Forestgate Drive
	Len Bolder	12 Forestgate Drive
	Carmela Oliverio	107 Duncarin Crescent
	Maurice Byrne	347 Magnolia
	Mary Byrne	347 Magnolia
	Mike Safadi	356 Magnolia
	Nabil Safadi	356 Magnolia
	John Campbell	57 Goldwin
	Heather Harding	60 Goldwin
	Bob Harding	60 Goldwin
	Audrey & Bill Muir / Walker	335 Magnolia
	Neil Cole	339 Magnolia
	Terry Ryan	341 Magnolia
	Joe Salemi	359 Magnolia
	Keith Stephenson	358 Magnolia
	Mary Jamieson	12 Forestgate
Dana Rousseaux	333 Magnolia	
Dini Balych	352 Magnolia	
Tushe Popaj	340 Magnolia	
Heather & Bob Harding	60 Goldwin	
Tim Gallant	154 Guildwood	
Jasmine Theberge	193 Wendover	
<b>City Staff</b>	Councillor Whitehead	Ward 8 / Chair
	Robert Norman	Strategic Planning
	Udo Ehrenberg	Strategic Planning
	Nahed Ghbn	Strategic Planning
	Chris Murray	City Manager
	Jerry Parisotto	Manager Construction Services
	Nello Violin	Superintendent P.W.
	John Morgante	Development Engineering
	Wayne Song	Road Operations
	Karen Devantier	Water Wastewater
Stephen Braun	MRC Consultants	
Karen Hofbauer	MRC Consultants	

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The meeting was called to order at 7:10 p.m. by Councillor Whitehead who began with an introduction of City Staff and proceeded to offer an overview of the flooding situations to date and impressed to those present the concerns of the residents.

Councillor Whitehead went on to discuss the fears frustration and concerns of the residents many of whom have lost their Insurance because of repeated claims for flooding, some who have lost vehicles to raising water and who are no longer confident that they can keep their vehicles out of harms way in their own garages and are now forced to park on the street. There are also a number of homeowners who are concerned about not only their property values but the structural soundness of the foundations of their homes as there has been a repeated assault of water which in some cases has not drained away as rapidly as it arrived. Many residents have become prisoners in their own homes and are afraid to take vacation or leave for even as short period of time as they have seen how in a few short minutes the water can rise and the destruction can and has been devastating to many who live in the Fessenden corridors.

Councillor Whitehead went on to give a brief overview of the Floods of 2005 and how the community of Peterborough set up one of the first Surge Study Groups. Councillor went on to further disseminate the West Mountain Storm Management Study and explain the boundaries in this document. The study also covered the escarpment and areas of Ward 1 and Ainsle Woods Neighbourhoods; the completion of the Environmental Assessment and the next steps of design and implementation. Regardless of all the designs, plans and standards brought forth, what had been done to date was just not working. The fact that houses were being built with “negative” driveways and that this was allowed. Many recommendations did not work and the plan needs to be fixed.

Councillor Whitehead spoke briefly on how City Manager Chris Murray led the charge on the Red Hill Creek Expressway flooding issues and how they had been rectified and a solution found. Councillor also explained that the Senior Management Team was not taking the flooding issues of the West Mountain lightly and have indicated this by the strong showing of Staff at this meeting.

Councillor Whitehead has to date with his Council Associates worked diligently to understand and lead the way when it comes to issues of

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Flooding. Every member of Council understands what the residents are up against when it comes to water and how destructive and damaging it can be. Councillor Whitehead has assured the residents that Public Works will be on board and will give their support as the needed finances are moved into the Capital Budget.

At **7:40 p.m.**, Councillor Whitehead introduced Udo Ehrenberg of Strategic Planning who set forth the schedule for the evening’s events as follows:

1. Presentation by MRC Representatives.
2. The solutions that have been arrived at to date.
3. How we got to where we are today.
4. What direction we are now taking.
5. Overview of the 3P Program
6. Protective Plumbing and Sewer Back-up

Stephen Braun of McCormick Rankin Corporation offered a power point presentation covering what had been done to date with regard to the West Mountain Storm Management Study. Mr. Braun outlined the specific guidelines set forth by the Ministry of the Environment and outlined step by step each phase of the study. There was a brief question and answer period at the end of the presentation and Mr. Braun advised that there was a copy of the presentation for each resident to take home for review should they have any further questions that they would like to direct to staff after they have had time to fully comprehend the document.

At **8:15** the overview of the Power Point presentation was completed and Karen Devantier of Water Wastewater Management spoke briefly on the installation of a backwater valve to prevent sewer back-up from entering homes during situations such as what had transpired on June 08, 2011. This opened a brief debate on the efficiency of the back water valve and a number of residents did not feel that it performed as well as they had been led to believe.

Councillor Whitehead advised that he would move a motion through his Council Colleagues to insure that the Fessenden area would be monitored diligently until such time as action on the solutions outlined will commence.

Over the years, there have a number of remedial measures suggested with regard to relieving the potential of flooding in this area. Every suggestion from grading the properties to upsizing the sewers has been considered with the following results:

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- Underground storage and upsizing storm sewer grates would hopefully result in all water being stored in tanks would bleed out slowly to a down stream solution.
- Alternative 8E drawing –Surface and Underground water storage.
- The preferred solution would be the addition of a retention pond in the preferred area of MacNab School grounds at the North end of HWDS property.

At **8:30 p.m.** a number of residents inquired about answers to questions that had been raised at the original meeting of June 17, 2011. Rob Norman indicated to the residents that responses to all questions had been answered and that there was a handout available to all residents and would be handed out at the end of the meeting. At this time Councillor Whitehead resumed the floor and advised the residents that it would be in their best interest to select members from their community to sit on a Community Liaison Committee so that they can keep their neighbourhood informed of progress. Those interested have been asked to give their information to Ms. Wicken Executive Assistant to Councillor Whitehead at the end of the meeting. The floor was then open to questions from the residents in an open forum discussion. The following comments have been noted:

- The timelines for the “Next Steps” outlined on page 13 of the handout provided to the residents needs to be accelerated. The residents made it perfectly clear that action is needed now not two years down the road. Councillor Whitehead agreed but also indicated that there are portions of the studies that are out of the municipality’s hands and are part of the Ministry of the Environment. The residents did insist that it was their feeling that many of the necessary studies could be moving forward concurrently and that the remainder of the Environmental Assessment be moved ahead as soon as possible.
- Councillor Whitehead was asked if there would or could be a revision to the Tax Assessment for this area to give those residents experiencing flooding some relief from repeated expenses. Councillor Whitehead advised that he would have to table a motion to Council for any revision to the tax base and advised he look into this in the very near future.
- The residents repeatedly stated that there is obviously a problem in the Fessenden Boundaries which the City of Hamilton needs to address immediately.

There have been a number of discussions regarding the statements made by residents and Colleen Wicken has advised of the Privacy issues that are faced for open forum meetings. In order to capture and allow statements by individuals to be published as a

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matter of record, Ms. Wicken has advised that in the future, it be made clear at the onset of any meeting that all those who wish to address the meeting must do so formally through the chair by stating their name and address and direct their question accordingly to the staff member which they are requesting to address.

The meeting was adjourned by Councillor Whitehead at **9:35 p.m.**

The following residents have volunteered to sit as members and or alternate (\*) on the Community Liaison Committee for Fessenden:

Anne Flanagan	15 Forestgate Drive	<a href="mailto:radar@mountaincable.net">radar@mountaincable.net</a>
Marg Jamieson*	12 Forestgate Drive	
Bob Harding	60 Goldwin	<a href="mailto:bohlharding@quickclic.net">bohlharding@quickclic.net</a>
John Campbell *	57 Goldwin	<a href="mailto:jccampbell@quickclic.net">jccampbell@quickclic.net</a>
Terry Ryan	341 Magnolia	<a href="mailto:tryan@quickclic.net">tryan@quickclic.net</a>
Keith Stephenson*	358 Magnolia	
Dana Rosseaux	333 Magnolia	<a href="mailto:malrosseaux@hotmail.com">malrosseaux@hotmail.com</a>
Mary Byrne *	347 Magnolia	<a href="mailto:moeburn@yahoo.ca">moeburn@yahoo.ca</a>

Respectfully Submitted:

Colleen Wicken

July 19, 2011