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2017 Capital Budget Briefing Note Basement Flooding Protection Program – Program Status Update

Issue:

City Council, through the creation of the City's Basement Flooding Protection Program, has directed staff to reduce the risk of basement flooding across the City through a combination of public drainage system improvements and through the use of policies, by-laws, and incentives to reduce flood risks on private and public properties.

This briefing note provides an update on Toronto Water's efforts to reduce the risk of basement flooding in the City. Specifically, ward by ward progress updates are provided to summarize the progress to date on Environmental Assessment studies, infrastructure upgrades, and private property flood protection device subsidies.

Background:

Basement Flooding Environmental Assessment (EA) Studies

Environmental Assessment (EA) studies are undertaken that assess the capacities of the City's existing storm, sanitary, and combined sewer drainage systems and recommend infrastructure improvements to these systems to reduce future basement and surface flooding. Deficiencies in private drainage systems are not identified and not assessed through the City's Basement Flooding EA studies.

The Basement Flooding Protection Program (BFPP) was expanded to be City-wide following the severe storm of July 8, 2013. This expansion resulted in the creation of new Basement Flooding study areas, bringing the total to 67 study areas. City Council, at its meeting on March 10 and 11, 2015, requested the General Manager, Toronto Water, to initiate and expedite the completion of new Basement Flooding EA studies for the remainder of the City, specifically Study Areas 42 through 67 and in the order of priority as shown in Schedule A to the report (December 18, 2014) from the General Manager, Toronto Water. The Council decision can be viewed at:

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2015.EX3.1>

As of September 30, 2016, EA studies have been completed for 30 Basement Flooding Study Areas. EA studies for eleven study areas are underway, of which one EA study is planned to be completed by the end of 2016 (Study Area 26), eight EA studies are planned for completion in 2017 (Study Areas 20, 27, 34, 35, 36, 37, 38 and 39), and two EA studies are planned for completion in 2018 (Study Areas 40 and 41). The 30 completed Basement Flooding EA studies have recommended an estimated \$1.683 billion of infrastructure improvement projects.

A preliminary schedule (subject to future adjustments) for undertaking Basement Flooding EA studies was provided in the December 18, 2014 Staff Report. Toronto Water committed to providing City Council with an updated schedule when there is a change in the EA schedule (e.g. advancement or delay of an EA study start) that exceeds one year. As per the commitment in the 2014 Staff Report, the revised schedules for study areas 42, 43, 44, 45 and 62 are provided in Table 1.

Table 1 - Revised Schedules for Basement Flooding Study Areas 42, 43, 44, 45 and 62

Basement Flooding Study Area	Original EA Study Start Year	Revised EA Study Start Year
42	2016	2017
43	2016	2017
44	2016	2017
45	2018	2017
62	2024	2017

While the EA start schedules for study areas 42, 43 and 44 have been delayed, the schedules for study areas 45 and 62 are being advanced. Study area 62 is hydraulically connected with study areas 42 and 44, and these connections warrant the bundling of study area 62 with study areas 42 and 44. In addition, the Lower Simcoe underpass (between Front Street West and Bremner Boulevard) which has experienced multiple closures due to surface flooding incidents over the past several years, is located within study area 62. Both of these factors warrant the acceleration of study area 62.

Implementation of Infrastructure Upgrades

Infrastructure upgrades to reduce the risk of basement flooding are prioritized and scheduled, as per Council approved criteria to protect the greatest number of properties as soon as possible, within approved budgets, and are coordinated with other capital projects.

A key criteria in the decision to proceed with the design and construction of BFPP infrastructure upgrades is the requirement for projects to cost less than or equal to \$32,000 cost per benefitting property. This threshold was adopted by City Council at its meeting of September 21, 2011. The adopted staff report can be found at: <http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2011.PW7.6>

Projects that meet the \$32,000 cost per benefitting property threshold at the completion of the EA stage, proceed to preliminary design. At the completion of preliminary design, projects that meet the \$32,000 cost per benefitting property threshold, proceed to detailed design and construction. By the end of 2016, it is projected that approximately \$247 million of infrastructure upgrades will have been designed and constructed within the BFPP. This value represents approximately 15% of the total value of the improvements that have been recommended by completed Basement Flooding EA studies.

While many projects meet the \$32,000 cost per benefitting property threshold, there are also many projects that do not meet it. Of the \$1.683 billion of recommended infrastructure improvement projects identified to date, approximately \$915 million or 54% of the total value did not meet the \$32,000 cost per benefitting property threshold. These projects have not been scheduled for implementation within the 5 year capital plan, in accordance with City Council direction.

The remaining \$551 million of recommended infrastructure projects are in various stages of implementation. These stages include: under construction, in the design process (i.e. preliminary design or detailed design stages), and planned to begin the design process.

Basement Flooding Protection Subsidy Program

The City's Basement Flooding Protection Subsidy Program (BFPSP) offers property owners of single-family, duplex and triplex residential homes financial assistance of up to \$3,400 per property to install flood protection devices, including a backwater valve, sump pump, and pipe severance and capping of the home's storm sewer or external weeping tile.

The BFPSP was initially created for homeowners in response to the May 12, 2000 storm event, and was initially known as the "Voluntary Private Home Isolation from Public Sewer System Program". As a result of properties being impacted by subsequent storm events including the August 14, 2003, August 19, 2005 and May 17, 2006 storm events, the program was expanded City wide. City Council at its meeting in July 2006 adopted a report to expand the program City-wide and requested the General Manager of Toronto Water to incorporate funding to support the Program in its 2007 Capital Budget submission. The Council decision can be viewed at: <http://www.toronto.ca/legdocs/2006/agendas/council/cc060725/pof6rpt/cl041.pdf>

Since the subsidy program was expanded City wide in 2006, over 19,500 applications have been approved with over \$32.4 million in total subsidy payments issued to property owners by Toronto Water as of the end of June 2016. On average, the City currently issues approximately \$1,600 in subsidy payments to participating properties. The number of subsidy applications approved by the City have varied considerably from ward to ward as shown in Figure 1.

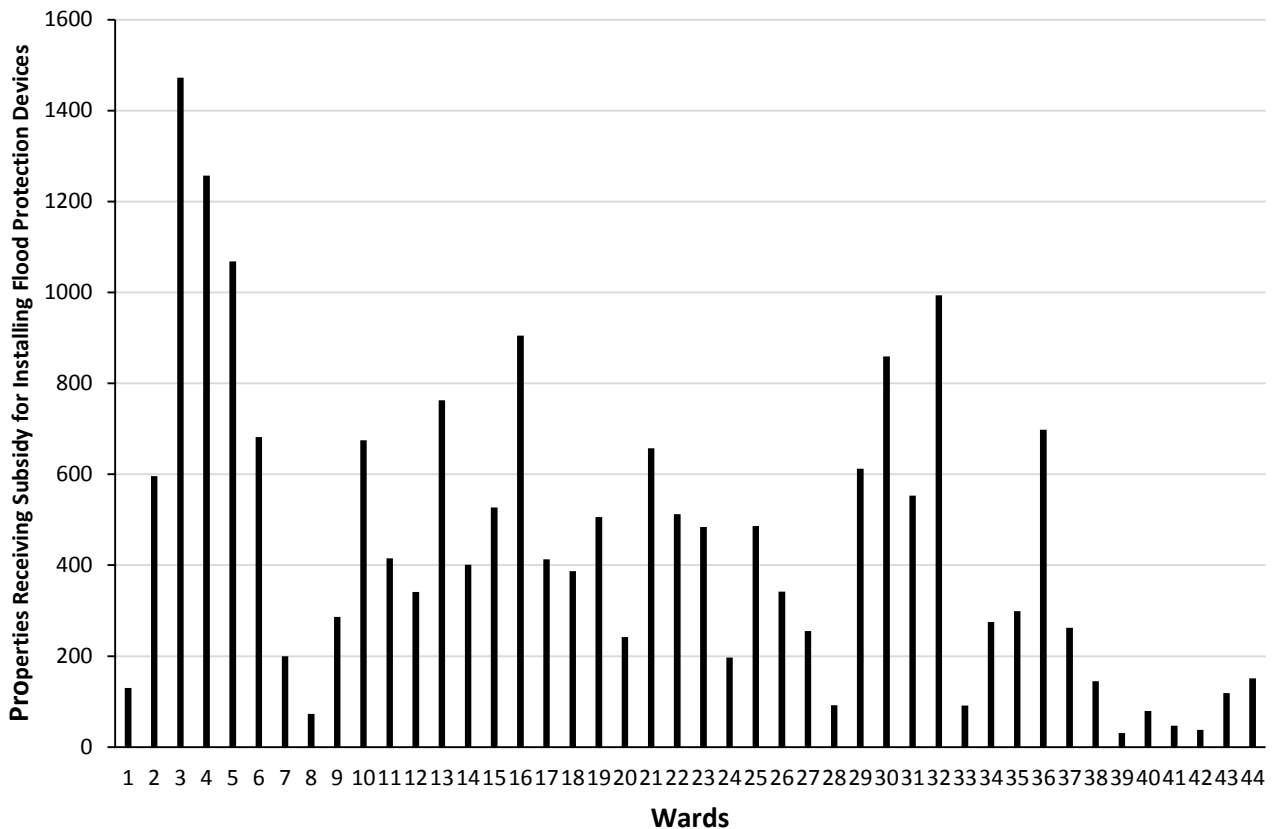


Figure 1 - Number of Properties Receiving a Subsidy for Installing Flood Protection Devices by Ward (up to end of June 2016)

Key Points:

Progress in the Basement Flooding Protection Program varies considerably from ward to ward. This briefing note provides a ward by ward summary in Schedule A and highlights the accomplishments achieved to date. Specifically, the progress regarding EA studies, construction of infrastructure upgrades, and participation in the subsidy program is provided.

These summaries highlight that while significant effort has been expended on this program, there still remains a great deal of effort to achieve the elevated level of service to reduce the risk of basement flooding across the entire City.

The summary for each City ward includes:

- A map showing the limits of each ward, the private properties that have installed flood protection devices, and the boundaries for the EA studies along with different shading to identify the portions of each ward where EA studies have been completed, are ongoing, or are planned to begin;
- A pie chart and table illustrating the proportion of each ward where an EA study has been completed, is ongoing, and is planned to begin in the future.

- A pie chart illustrating the status of the infrastructure improvement works that were recommended through completed EA studies. The chart is subdivided into five categories, namely 'Constructed', 'Under Construction', 'Design Process Initiated', 'Planned for Design Initiation', and 'Deferred Projects'. To align with the typical budgeting cycle, expected construction costs to the end of the 2016 calendar year have been estimated. The pie charts represent the portions of the ward where EA studies have been completed. Infrastructure improvement costs for the portions of the ward not yet studied are not estimated within the provided values.
- As projects move through the implementation process, cost estimates are updated and replaced with actual costs, which results in variations in the values from year to year.
- Bar charts are provided to illustrate the accomplishments of the City's Basement Flooding Protection Subsidy Program, which provides financial assistance to pay for some of the costs of installing flood protection devices. Both program participation and program expenditure summaries up to the end of June 2016 are provided.

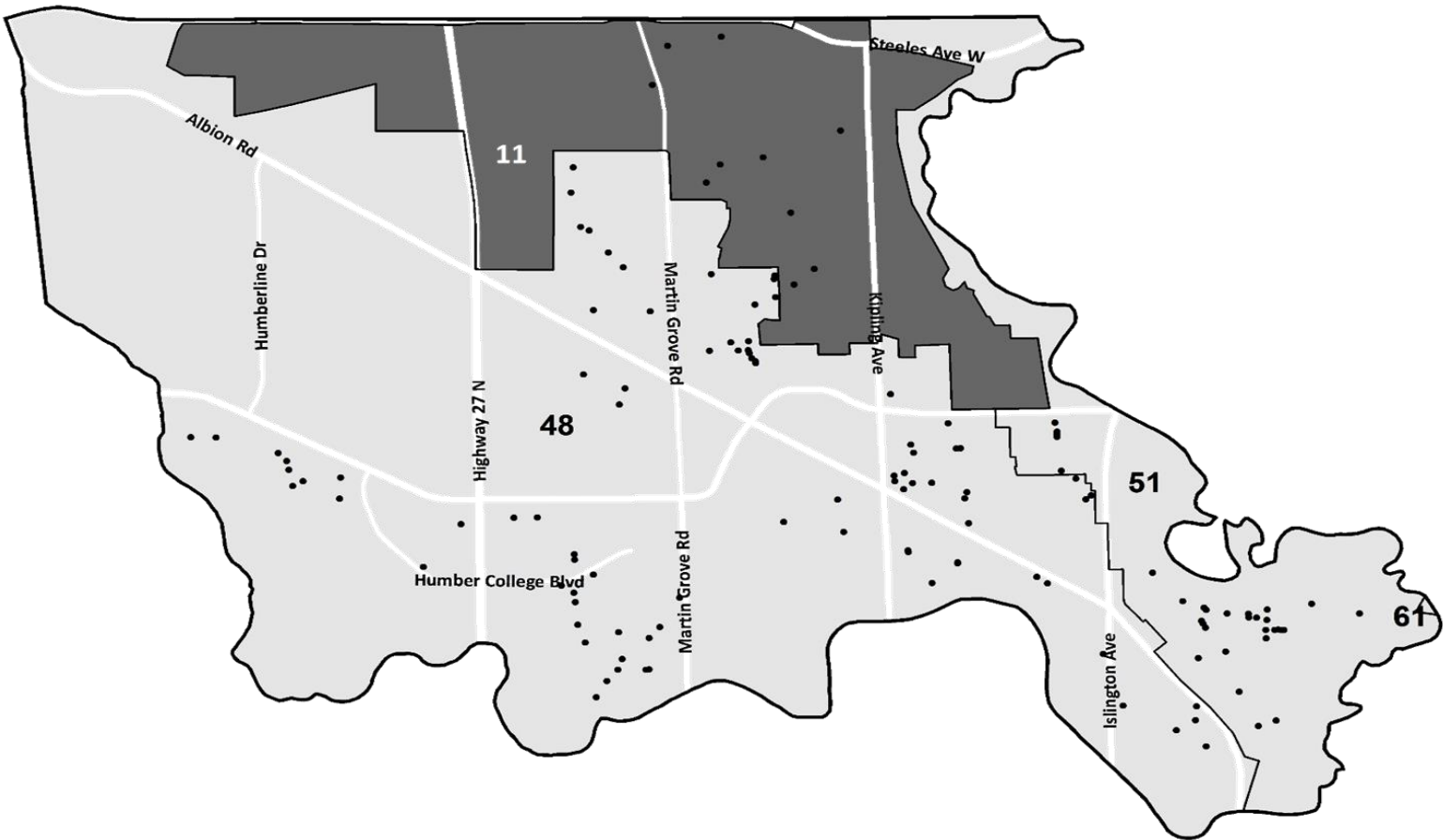
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Email: ghardin2@toronto.ca

Date: October 21, 2016

Basement Flooding Protection Program Summary

Ward 1 - Etobicoke North



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
11	Completed (2012)	
48	To begin in 2018	
51	To begin in 2020	

Basement Flooding Protection Program Implementation Summary - to end of 2016

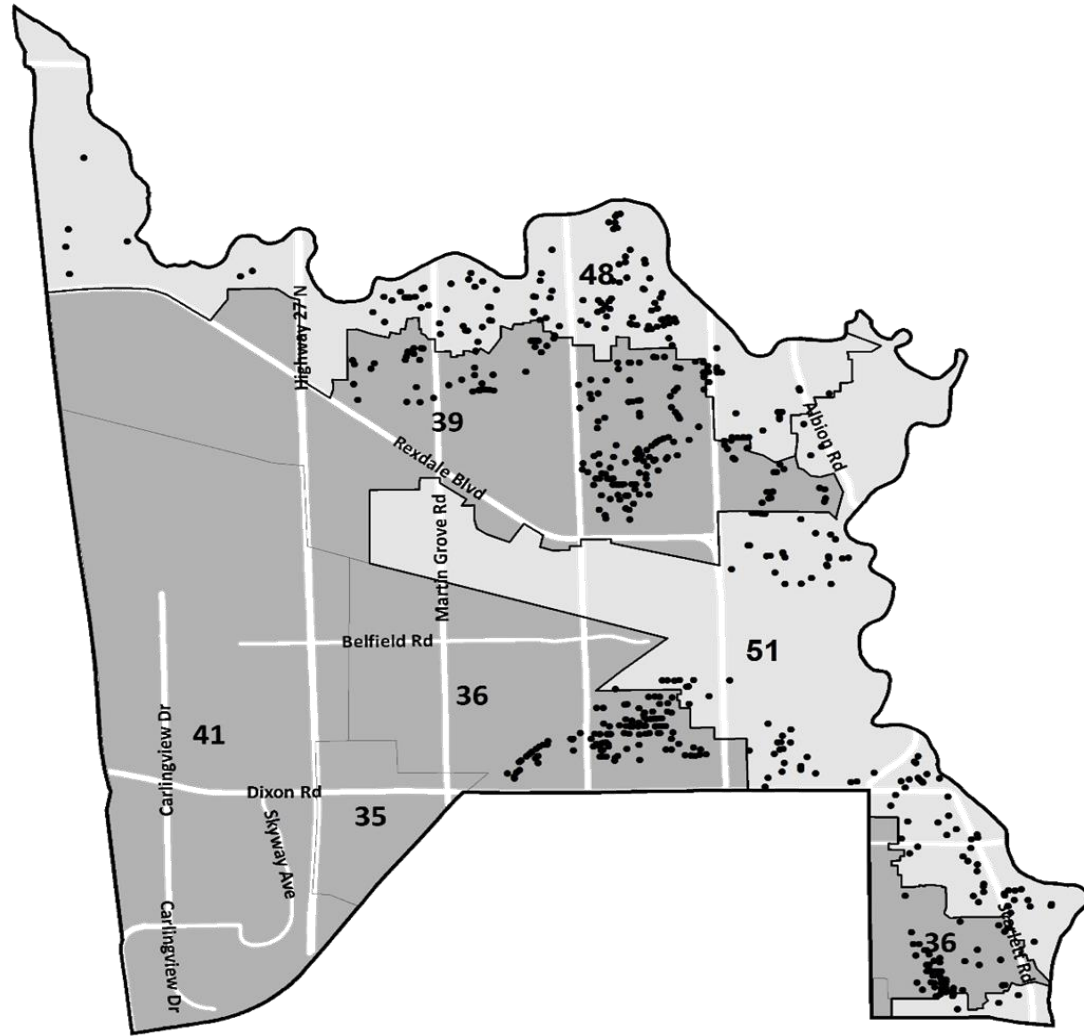
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> ■ Constructed ■ Under Construction ■ Design Process Initiated ■ Planned for Design Initiation ■ Deferred (>\$32,000 per benefitting property) 	<ul style="list-style-type: none"> • 1.1 km of storm sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> ■ Properties with FPD ■ Properties without FPD 	<ul style="list-style-type: none"> ■ Subsidized by City ■ Cost to Property Owners
<p>130 3551</p>	<p>\$ 0.20 M \$ 0.14 M</p>

Basement Flooding Protection Program Summary

Ward 2 - Etobicoke North



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
35	Underway (began in 2015)	<p>64% Study is Underway 36% Area Studied</p> <ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
36	Underway (began in 2015)	
39	Underway (began in 2015)	
41	Underway (began in 2015)	
48	To begin in 2018	
51	To begin in 2020	

Basement Flooding Protection Program Implementation Summary - to end of 2016

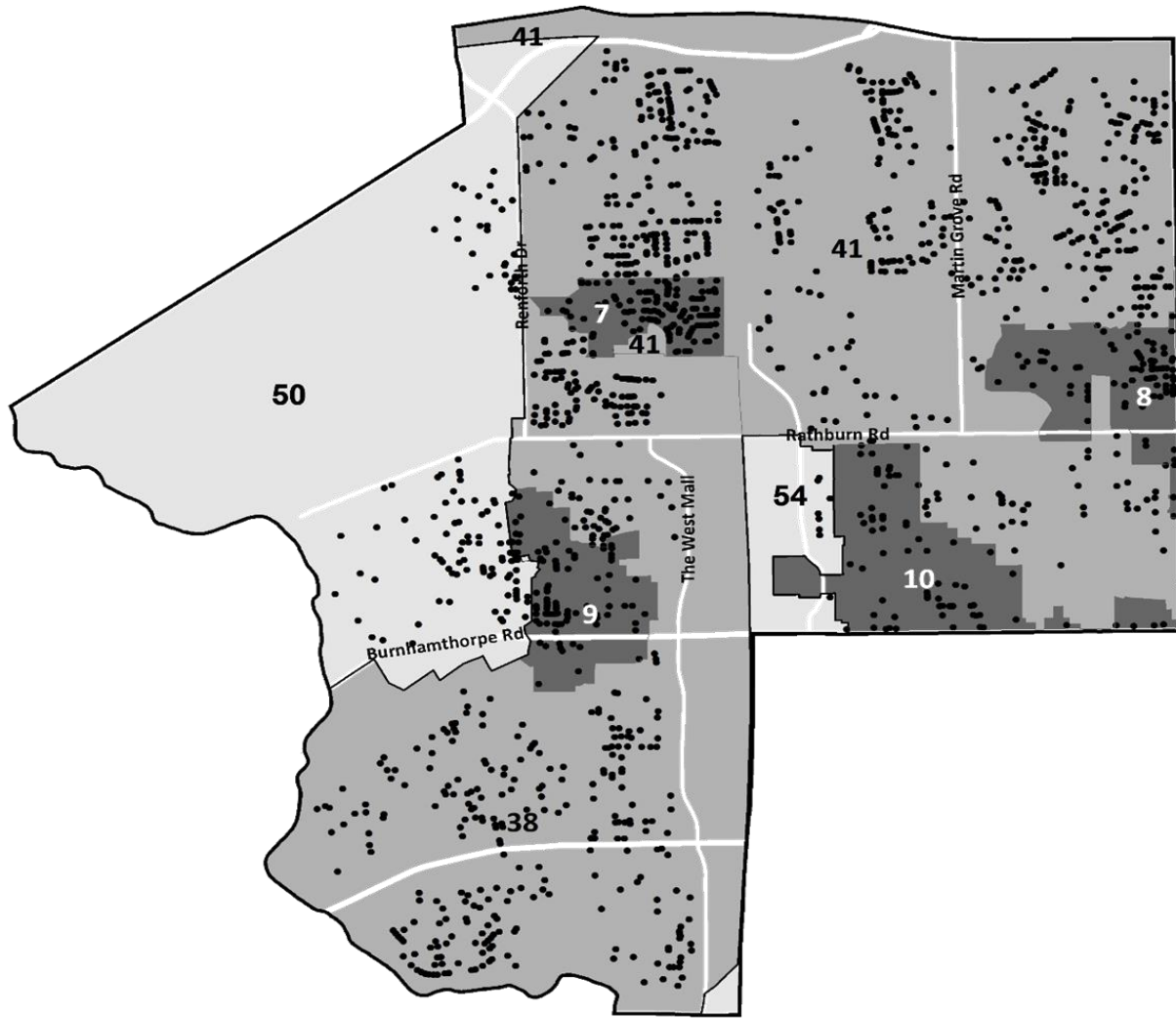
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <p>596 3656</p>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <p>\$ 0.90 M \$ 0.66 M</p>

Basement Flooding Protection Program Summary

Ward 3 - Etobicoke Centre



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
7	Completed (2012)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
8	Completed (2012)	
9	Completed (2012)	
10	Completed (2012)	
38	Underway (began in 2015)	
41	Underway (began in 2015)	
50	To begin in 2020	
54	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

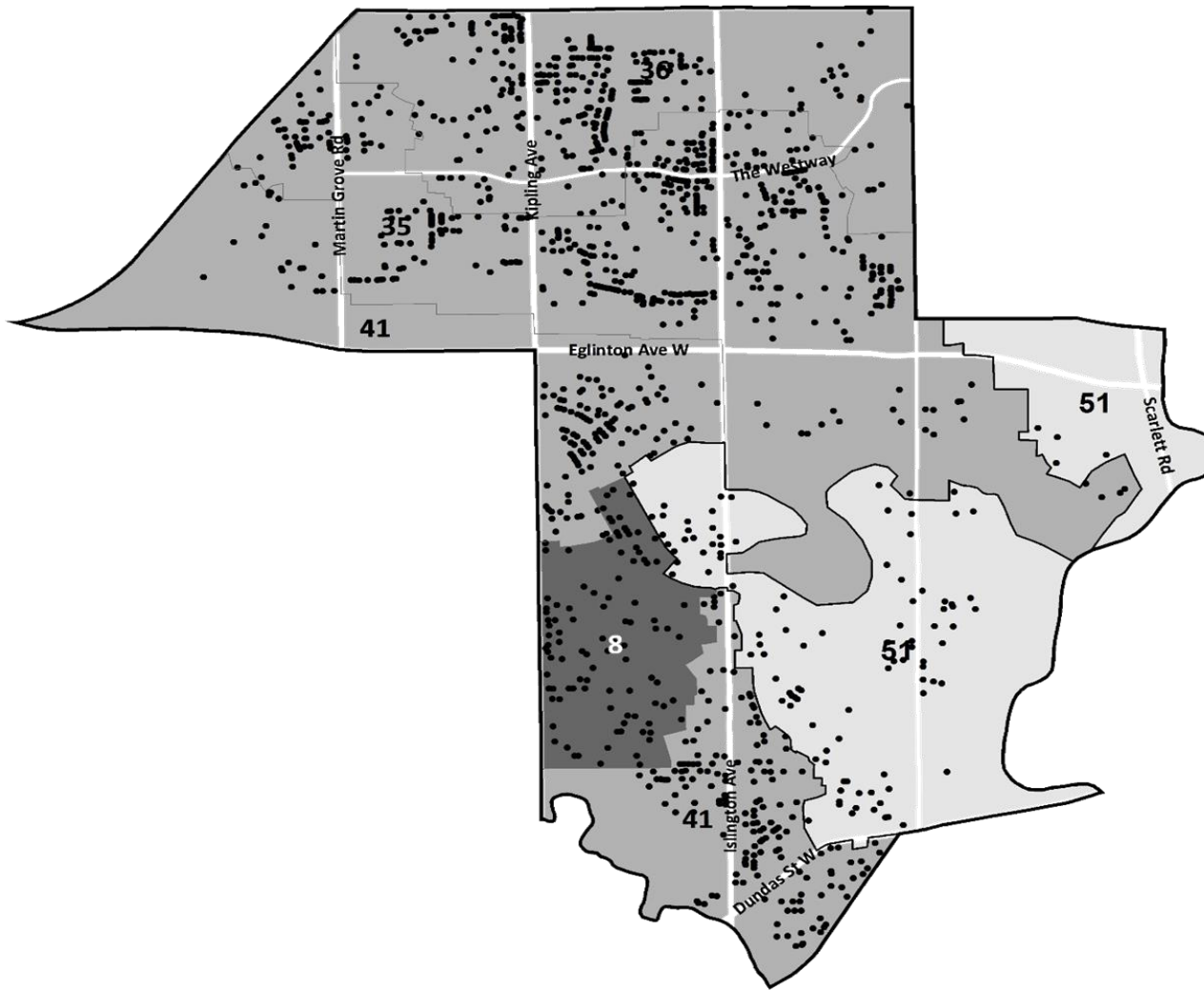
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	<ul style="list-style-type: none"> •2.9 km of storm sewer upgrades installed •3.1 km of sanitary sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<p>1472 4536</p>	<p>\$ 2.31 M \$ 1.57 M</p>

Basement Flooding Protection Program Summary

Ward 4 - Etobicoke Centre



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
8	Completed (2012)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
35	Underway (began in 2015)	
36	Underway (began in 2015)	
41	Underway (began in 2015)	
51	To begin in 2020	

Basement Flooding Protection Program Implementation Summary - to end of 2016

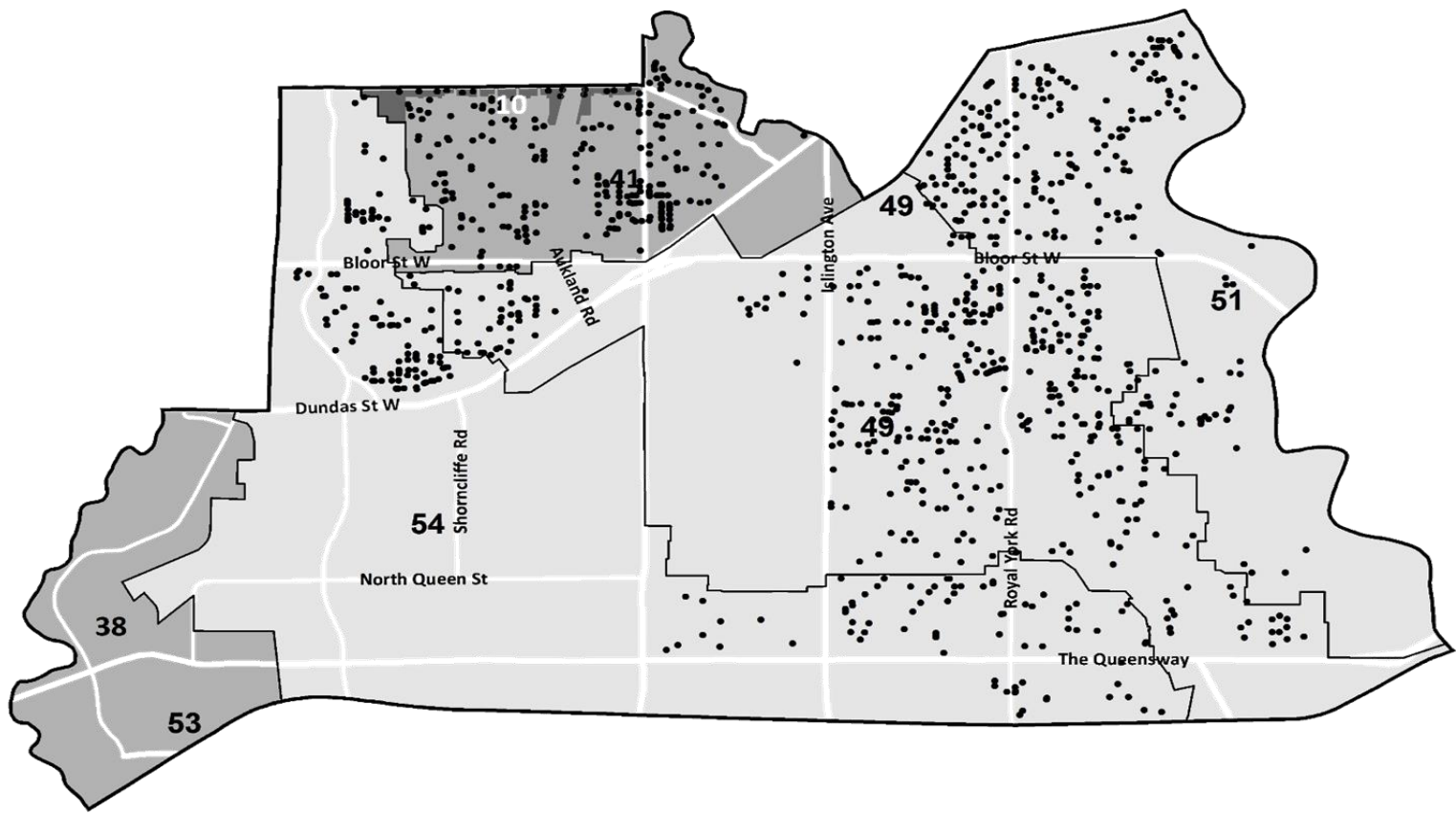
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefiting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<div style="display: flex; justify-content: space-around; width: 100%;"> <div style="background-color: #0056b3; color: white; padding: 5px; border: 1px solid black;">1257</div> <div style="background-color: #333; color: white; padding: 5px; border: 1px solid black;">5846</div> </div>	<div style="display: flex; justify-content: space-around; width: 100%;"> <div style="background-color: #0056b3; color: white; padding: 5px; border: 1px solid black;">\$ 1.94 M</div> <div style="background-color: #ccc; color: black; padding: 5px; border: 1px solid black;">\$ 1.37 M</div> </div>

Basement Flooding Protection Program Summary

Ward 5 - Etobicoke—Lakeshore



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
10	Completed (2012)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied </div> <div style="text-align: center;"> Study is Underway </div> <div style="text-align: center;"> Area to be Studied </div> </div>
38	Underway (began in 2015)	
41	Underway (began in 2015)	
49	To begin in 2018	
51	To begin in 2020	
54	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

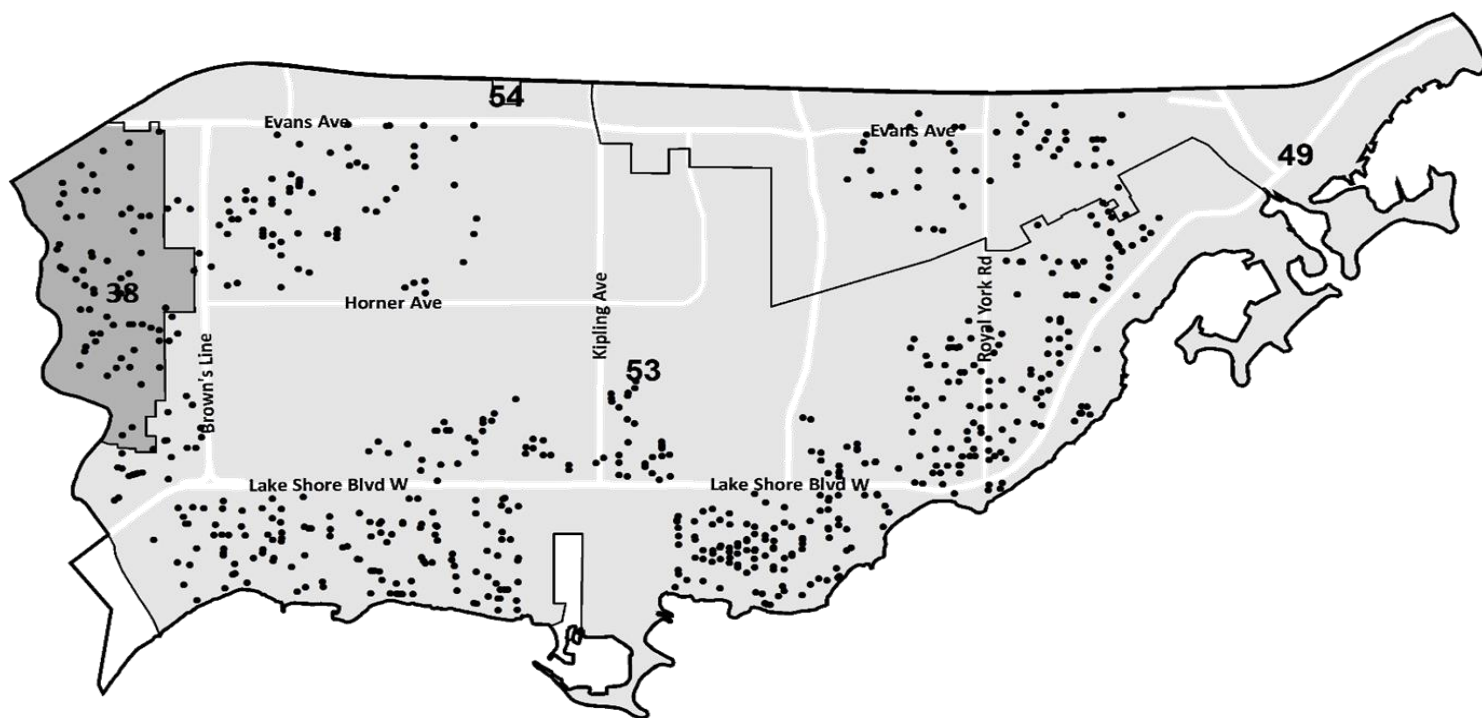
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the next Environmental Assessment Study in this ward</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) </div>	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> ■ Properties with FPD 1068 </div> <div style="text-align: center;"> ■ Properties without FPD 6975 </div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> ■ Subsidized by City \$ 1.74 M </div> <div style="text-align: center;"> ■ Cost to Property Owners \$ 1.29 M </div> </div>

Basement Flooding Protection Program Summary

Ward 6 - Etobicoke—Lakeshore



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
38	Underway (began in 2015)	<p>6% 94%</p> <ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
49	To begin in 2018	
53	To begin in 2020	
54	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

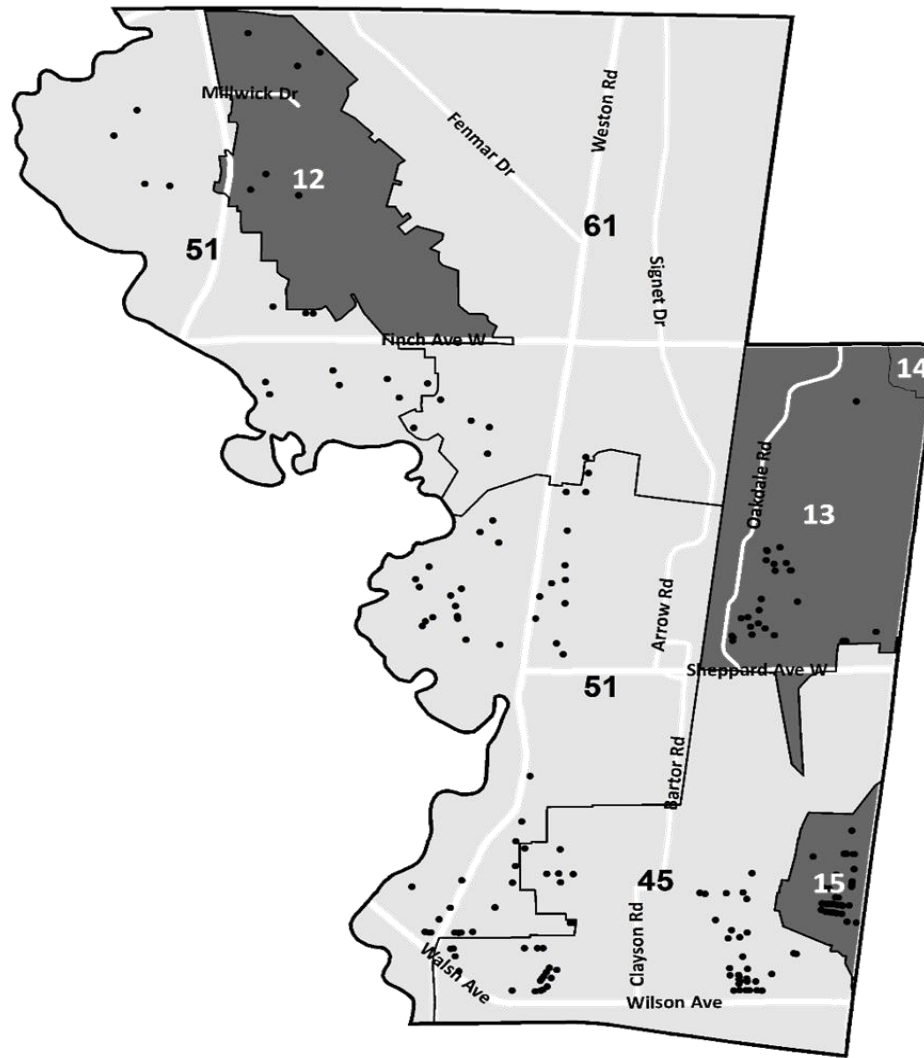
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <p>682 7332</p>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <p>\$ 1.14 M \$ 0.84 M</p>

Basement Flooding Protection Program Summary

Ward 7 - York West



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward						
12	Completed (2010)	<table border="1"> <tr> <td>Area Studied</td> <td>21%</td> </tr> <tr> <td>Study is Underway</td> <td>79%</td> </tr> <tr> <td>Area to be Studied</td> <td>0%</td> </tr> </table>	Area Studied	21%	Study is Underway	79%	Area to be Studied	0%
Area Studied	21%							
Study is Underway	79%							
Area to be Studied	0%							
13	Completed (2014)							
14	Completed (2009)							
15	Completed (2014)							
45	To begin in 2017							
51	To begin in 2020							
61	To begin in 2024							

Basement Flooding Protection Program Implementation Summary - to end of 2016

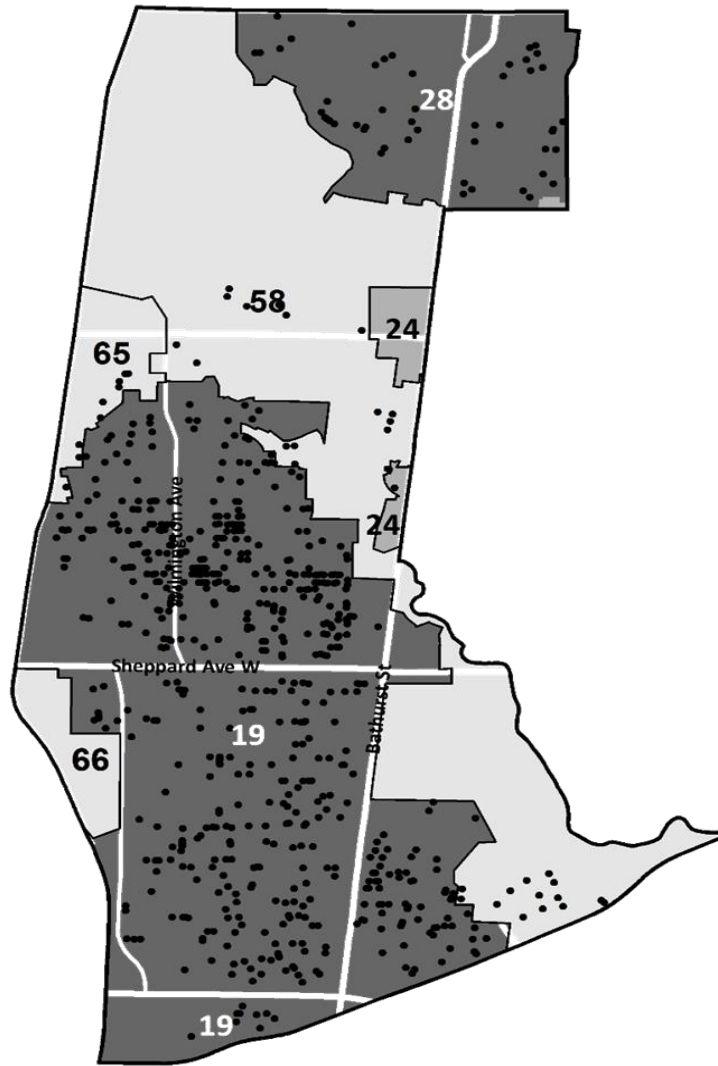
Project Implementation Progress	Project Highlights												
<table border="1"> <tr> <td>Constructed</td> <td>\$26.2 M, 43%</td> </tr> <tr> <td>Under Construction</td> <td>\$8.9 M, 15%</td> </tr> <tr> <td>Design Process Initiated</td> <td>\$13.1 M, 22%</td> </tr> <tr> <td>Planned for Design Initiation</td> <td>\$6.5 M, 11%</td> </tr> <tr> <td>Deferred (>\$32,000 per benefitting property)</td> <td>\$5.7 M, 9%</td> </tr> <tr> <td>TOTAL</td> <td>\$60.4 M</td> </tr> </table>	Constructed	\$26.2 M, 43%	Under Construction	\$8.9 M, 15%	Design Process Initiated	\$13.1 M, 22%	Planned for Design Initiation	\$6.5 M, 11%	Deferred (>\$32,000 per benefitting property)	\$5.7 M, 9%	TOTAL	\$60.4 M	<ul style="list-style-type: none"> •1.7 km of storm sewer upgrades installed •2.4 km of sanitary sewer upgrades installed
Constructed	\$26.2 M, 43%												
Under Construction	\$8.9 M, 15%												
Design Process Initiated	\$13.1 M, 22%												
Planned for Design Initiation	\$6.5 M, 11%												
Deferred (>\$32,000 per benefitting property)	\$5.7 M, 9%												
TOTAL	\$60.4 M												

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures								
<table border="1"> <tr> <td>Properties with FPD</td> <td>200</td> </tr> <tr> <td>Properties without FPD</td> <td>4192</td> </tr> </table>	Properties with FPD	200	Properties without FPD	4192	<table border="1"> <tr> <td>Subsidized by City</td> <td>\$ 0.31 M</td> </tr> <tr> <td>Cost to Property Owners</td> <td>\$ 0.25 M</td> </tr> </table>	Subsidized by City	\$ 0.31 M	Cost to Property Owners	\$ 0.25 M
Properties with FPD	200								
Properties without FPD	4192								
Subsidized by City	\$ 0.31 M								
Cost to Property Owners	\$ 0.25 M								

Basement Flooding Protection Program Summary

Ward 10 - York Centre



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016



Completed Environmental Assessment (EA) Study Area

#

Ongoing Environmental Assessment (EA) Study Area

#

Future Environmental Assessment (EA) Study Area

#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
19	Completed (2014)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
24	Underway (began in 2012)	
28	Completed (2008)	
58	To begin in 2022	
65	To begin in 2025	
66	To begin in 2025	

Basement Flooding Protection Program Implementation Summary - to end of 2016

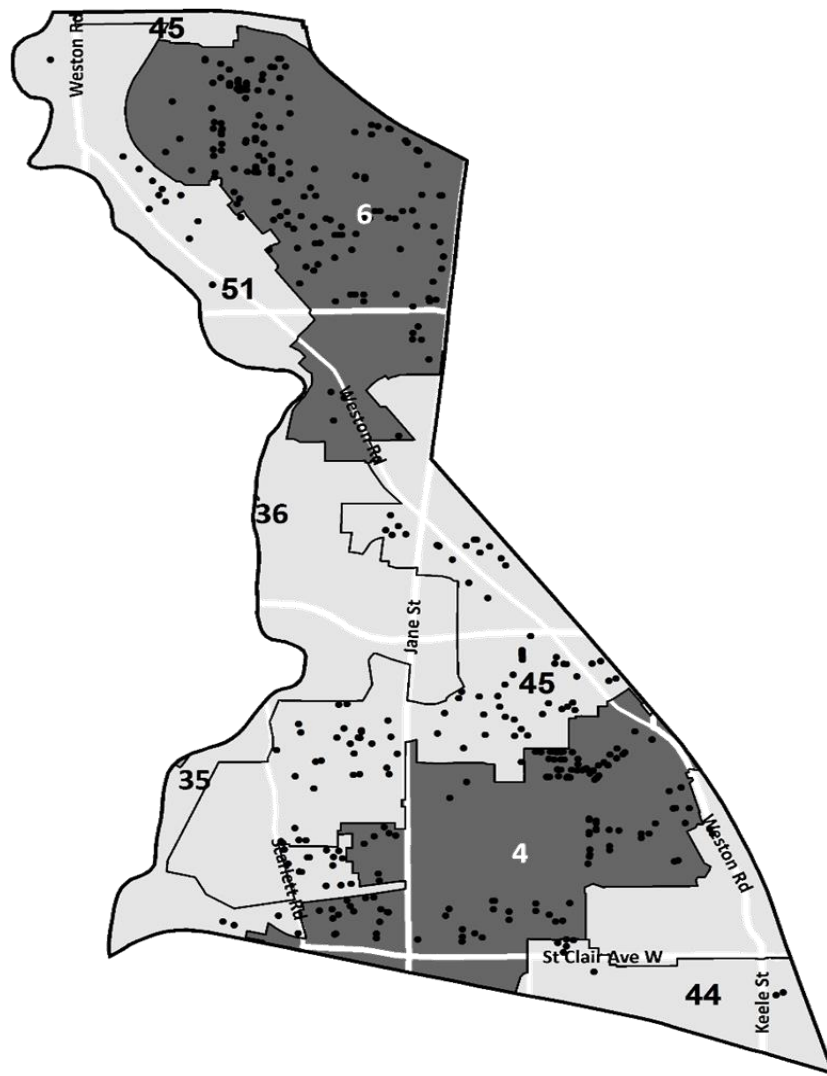
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefiting property) 	<ul style="list-style-type: none"> 2.5 km of storm sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<p>675 4937</p>	<p>\$ 1.22 M \$ 0.84 M</p>

Basement Flooding Protection Program Summary

Ward 11 - York South—Weston



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
4	Completed (2014)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied 40% </div> <div style="text-align: center;"> Study is Underway 60% </div> <div style="text-align: center;"> Area to be Studied </div> </div>
6	Completed (2014)	
44	To begin in 2017	
45	To begin in 2017	
51	To begin in 2020	

Basement Flooding Protection Program Implementation Summary - to end of 2016

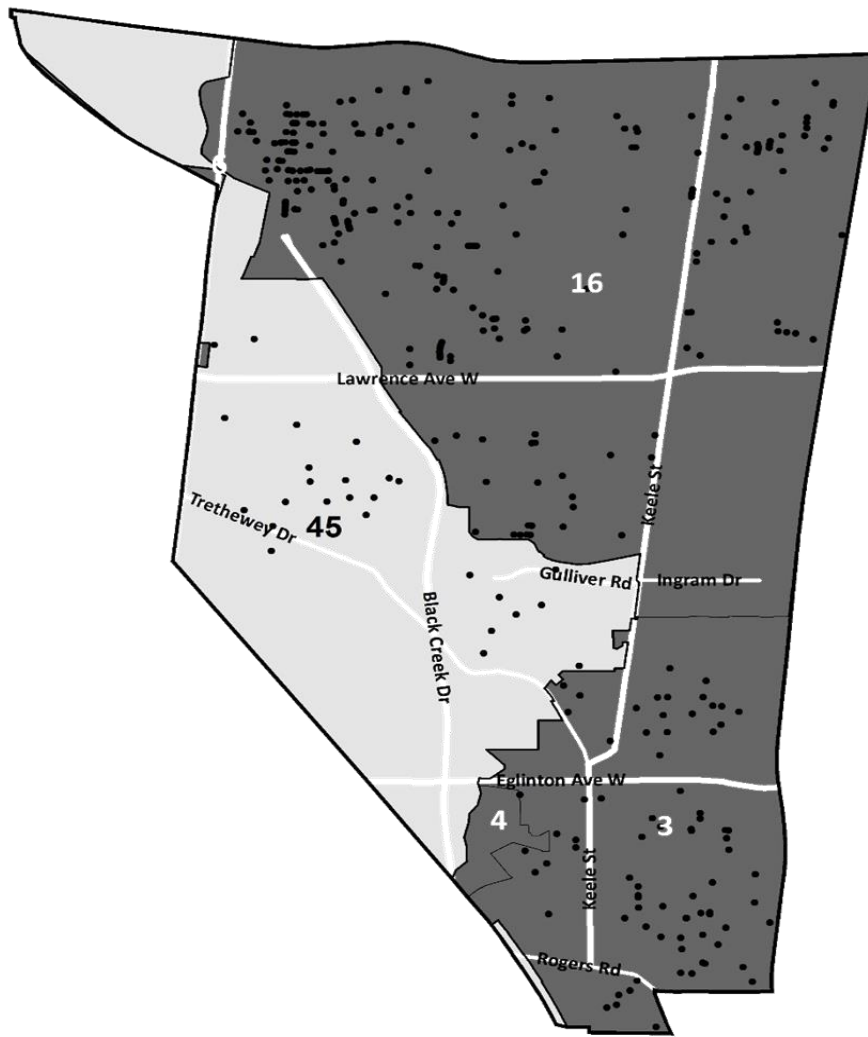
Project Implementation Progress	Project Highlights
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Constructed </div> <div style="text-align: center;"> Under Construction </div> <div style="text-align: center;"> Design Process Initiated </div> <div style="text-align: center;"> Planned for Design Initiation </div> <div style="text-align: center;"> Deferred (>\$32,000 per benefitting property) </div> </div>	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Properties with FPD 415 </div> <div style="text-align: center;"> Properties without FPD 5725 </div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Subsidized by City \$ 0.65 M </div> <div style="text-align: center;"> Cost to Property Owners \$ 0.52 M </div> </div>

Basement Flooding Protection Program Summary

Ward 12 - York South—Weston



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
3	Completed (2011)	
4	Completed (2014)	
16	Completed (2012)	
45	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
	<ul style="list-style-type: none"> •2.4 km of storm sewer upgrades installed •400 m of sanitary sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around;"> ■ Properties with FPD ■ Properties without FPD </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #4f81bd; width: 100px; height: 20px; margin-right: 10px;"></div> <div style="background-color: #1f4e79; width: 300px; height: 20px; margin-right: 10px;"></div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> 341 5112 </div>	<div style="display: flex; justify-content: space-around;"> ■ Subsidized by City ■ Cost to Property Owners </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #1f4e79; width: 150px; height: 20px; margin-right: 10px;"></div> <div style="background-color: #4f81bd; width: 150px; height: 20px;"></div> </div> <div style="display: flex; justify-content: space-around; align-items: center;"> \$ 0.54 M \$ 0.41 M </div>

Basement Flooding Protection Program Summary

Ward 13 - Parkdale—High Park



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
4	Completed (2014)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied </div> <div style="text-align: center;"> Study is Underway </div> <div style="text-align: center;"> Area to be Studied </div> </div>
5	Completed (2014)	
42	To begin in 2017	
44	To begin in 2017	
49	To begin in 2018	
51	To begin in 2020	

Basement Flooding Protection Program Implementation Summary - to end of 2016

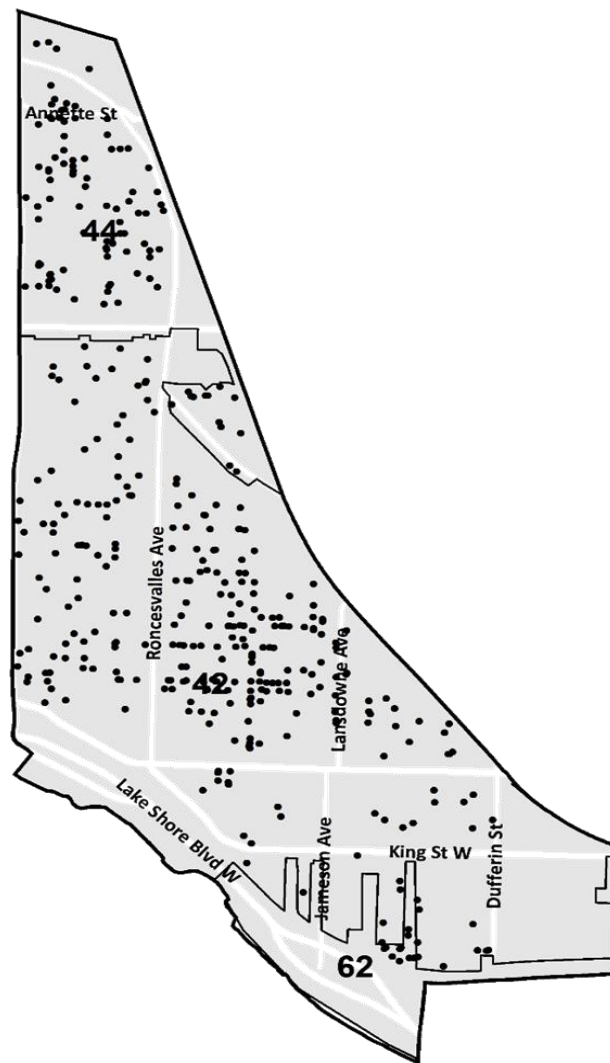
Project Implementation Progress	Project Highlights
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Constructed </div> <div style="text-align: center;"> Under Construction </div> <div style="text-align: center;"> Design Process Initiated </div> <div style="text-align: center;"> Planned for Design Initiation </div> <div style="text-align: center;"> Deferred (>\$32,000 per benefitting property) </div> </div>	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> ■ Properties with FPD </div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> ■ Properties without FPD </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: lightblue; padding: 10px; border: 1px solid black; width: 40px; text-align: center;">763</div> <div style="background-color: blue; padding: 10px; border: 1px solid black; width: 100px; text-align: center; color: white;">4527</div> </div>	<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> ■ Subsidized by City </div> <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> ■ Cost to Property Owners </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: blue; padding: 10px; border: 1px solid black; width: 100px; text-align: center; color: white;">\$ 1.20 M</div> <div style="background-color: lightblue; padding: 10px; border: 1px solid black; width: 100px; text-align: center;">\$ 1.02 M</div> </div>

Basement Flooding Protection Program Summary

Ward 14 - Parkdale—High Park



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
42	To begin in 2017	<p style="text-align: center;">100%</p>
44	To begin in 2017	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

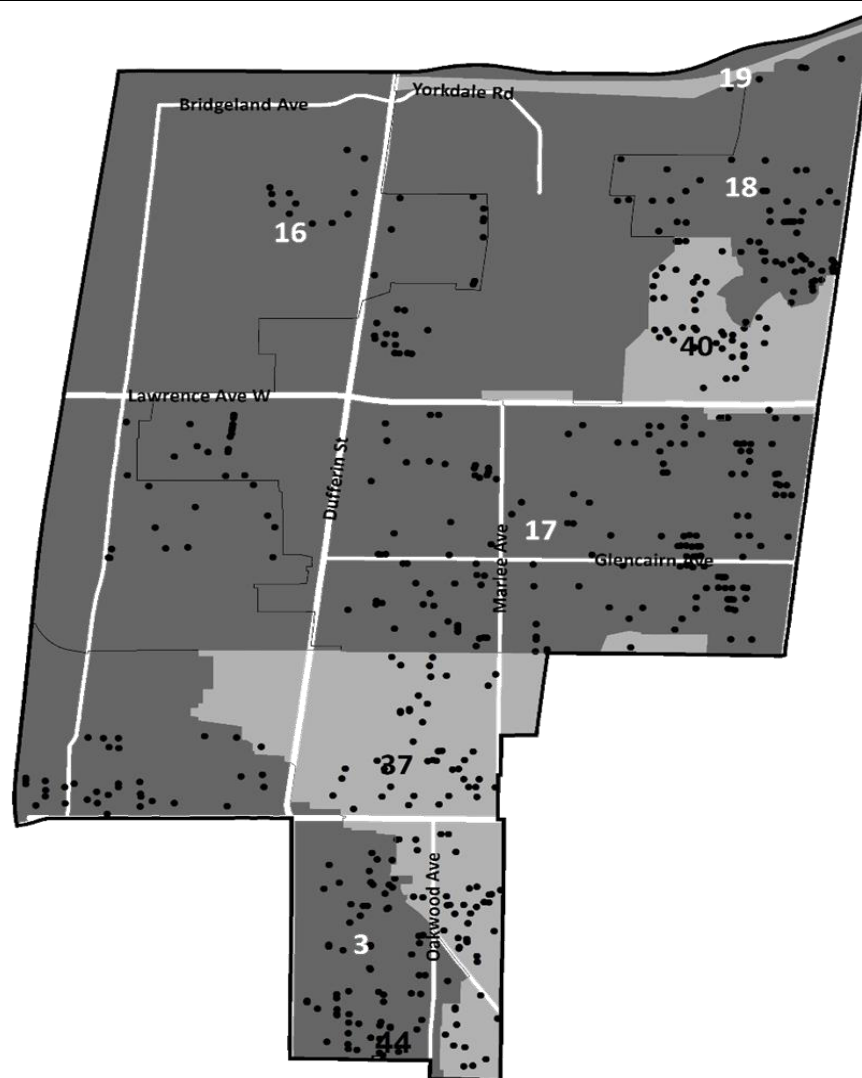
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<p>■ Properties with FPD ■ Properties without FPD</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: lightblue; padding: 10px; border: 1px solid black;">401</div> <div style="background-color: darkblue; padding: 10px; border: 1px solid black;">2205</div> </div>	<p>■ Subsidized by City ■ Cost to Property Owners</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: darkblue; padding: 10px; border: 1px solid black;">\$ 0.67 M</div> <div style="background-color: lightblue; padding: 10px; border: 1px solid black;">\$ 0.52 M</div> </div>

Basement Flooding Protection Program Summary

Ward 15 - Eglinton—Lawrence



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
3	Completed (2011)	
16	Completed (2012)	
17	Completed (2014)	
18	Completed (2014)	
19	Completed (2014)	
37	Underway (began in 2015)	
40	Underway (began in 2015)	

Basement Flooding Protection Program Implementation Summary - to end of 2016

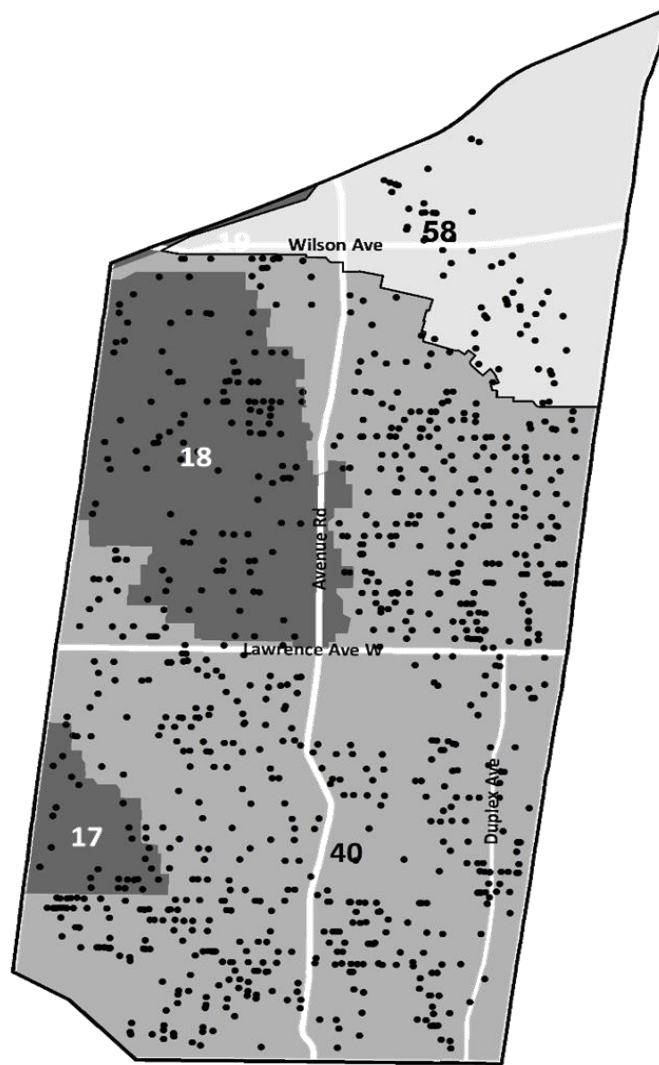
Project Implementation Progress	Project Highlights
<p>TOTAL \$315.3 M</p> <ul style="list-style-type: none"> \$206.2 M, 66% \$60.0 M, 19% \$35.0 M, 11% \$7.5 M, 2% \$6.7 M, 2% 	<ul style="list-style-type: none"> •1 km of storm sewer upgrades installed •500 m of sanitary sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD: 527 Properties without FPD: 6031 	<ul style="list-style-type: none"> Subsidized by City: \$0.91 M Cost to Property Owners: \$0.66 M

Basement Flooding Protection Program Summary

Ward 16 - Eglinton—Lawrence



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
17	Completed (2014)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
18	Completed (2014)	
40	Underway (began in 2015)	
58	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<p>905</p> <p>8012</p>	<p>\$ 1.56 M</p> <p>\$ 1.22 M</p>

Basement Flooding Protection Program Summary

Ward 17 - Davenport



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
3	Completed (2011)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
37	Underway (began in 2015)	
44	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

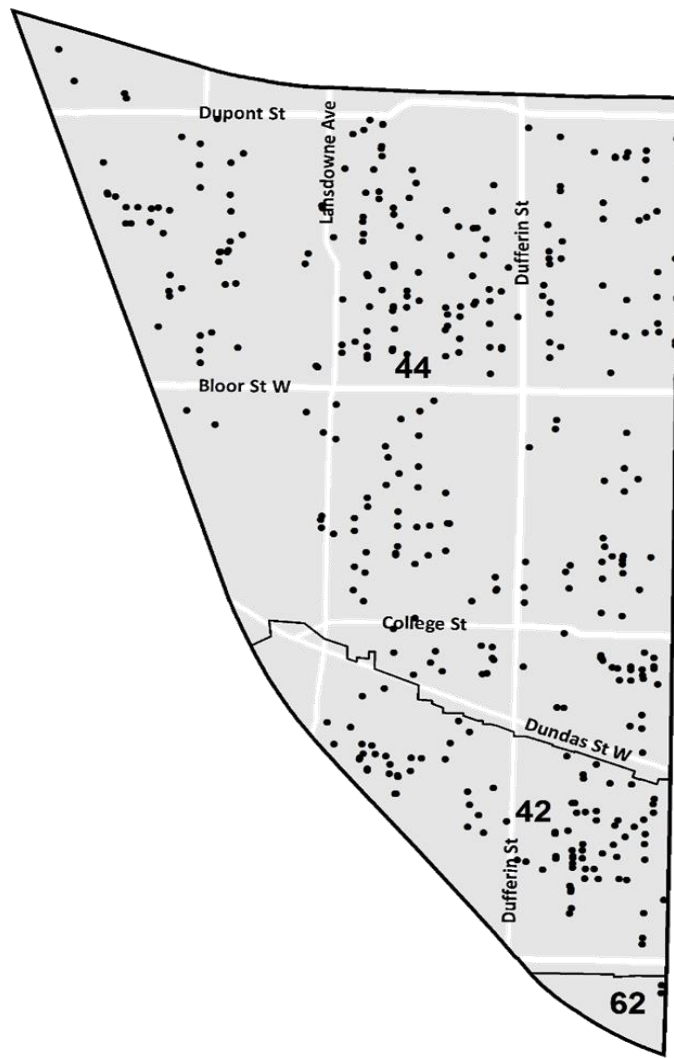
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	<ul style="list-style-type: none"> •800 m of storm sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<p>413 6044</p>	<p>\$ 0.68 M \$ 0.55 M</p>

Basement Flooding Protection Program Summary

Ward 18 - Davenport



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
42	To begin in 2017	<p>100%</p>
44	To begin in 2017	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

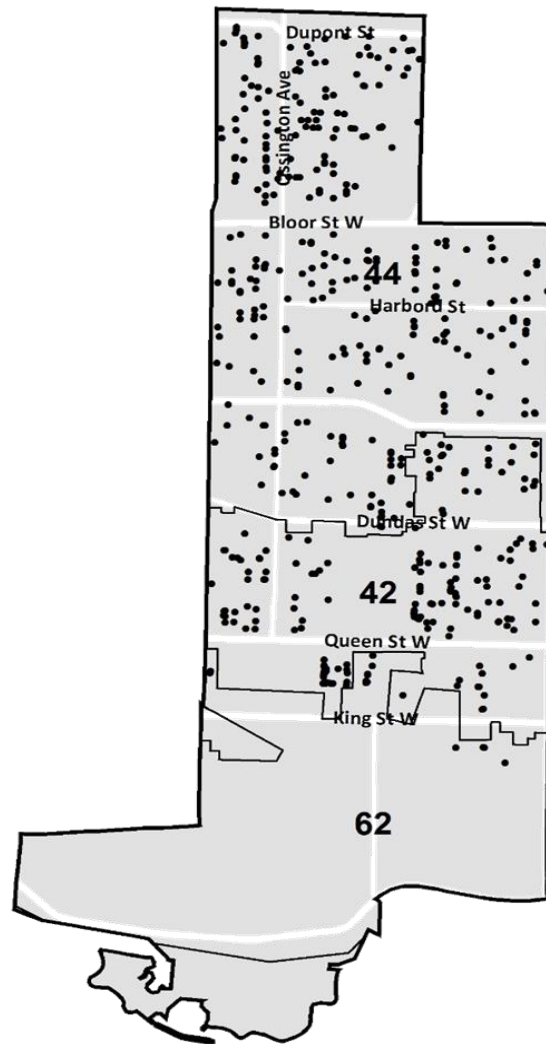
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> ■ Constructed ■ Under Construction ■ Design Process Initiated ■ Planned for Design Initiation ■ Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> ■ Properties with FPD ■ Properties without FPD <p>387 2926</p>	<ul style="list-style-type: none"> ■ Subsidized by City ■ Cost to Property Owners <p>\$ 0.64 M \$ 0.47 M</p>

Basement Flooding Protection Program Summary

Ward 19 - Trinity—Spadina



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
42	To begin in 2017	<p>100%</p>
44	To begin in 2017	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

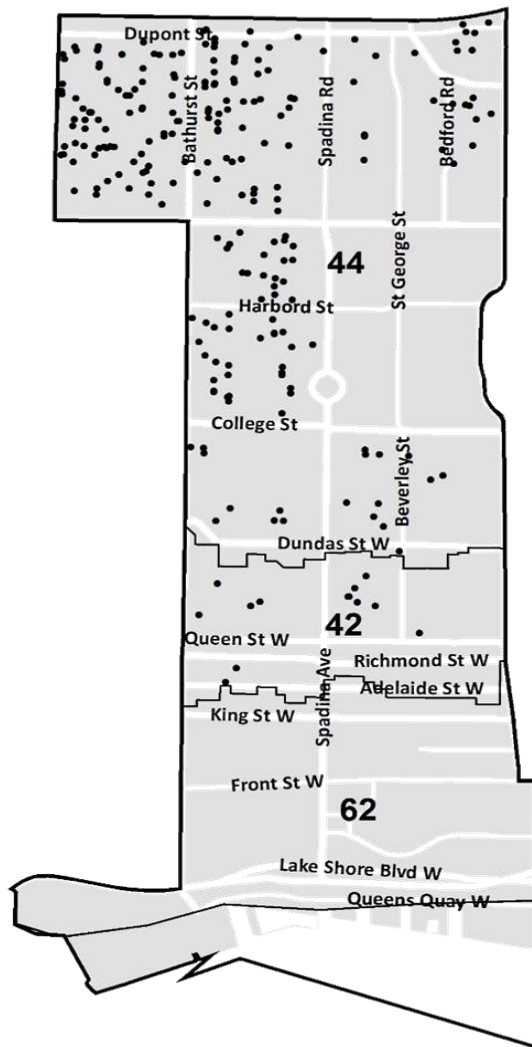
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <p>506 4645</p>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <p>\$ 0.89 M \$ 0.67 M</p>

Basement Flooding Protection Program Summary

Ward 20 - Trinity—Spadina



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
42	To begin in 2017	<p style="text-align: center;">100%</p>
44	To begin in 2017	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<p style="text-align: center;"> ■ Properties with FPD ■ Properties without FPD </p> <p style="text-align: center;"> 242 2681 </p>	<p style="text-align: center;"> ■ Subsidized by City ■ Cost to Property Owners </p> <p style="text-align: center;"> \$ 0.42 M \$ 0.31 M </p>

Basement Flooding Protection Program Summary

Ward 21 - St. Paul's



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
37	Underway (began in 2015)	
40	Underway (began in 2015)	
44	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

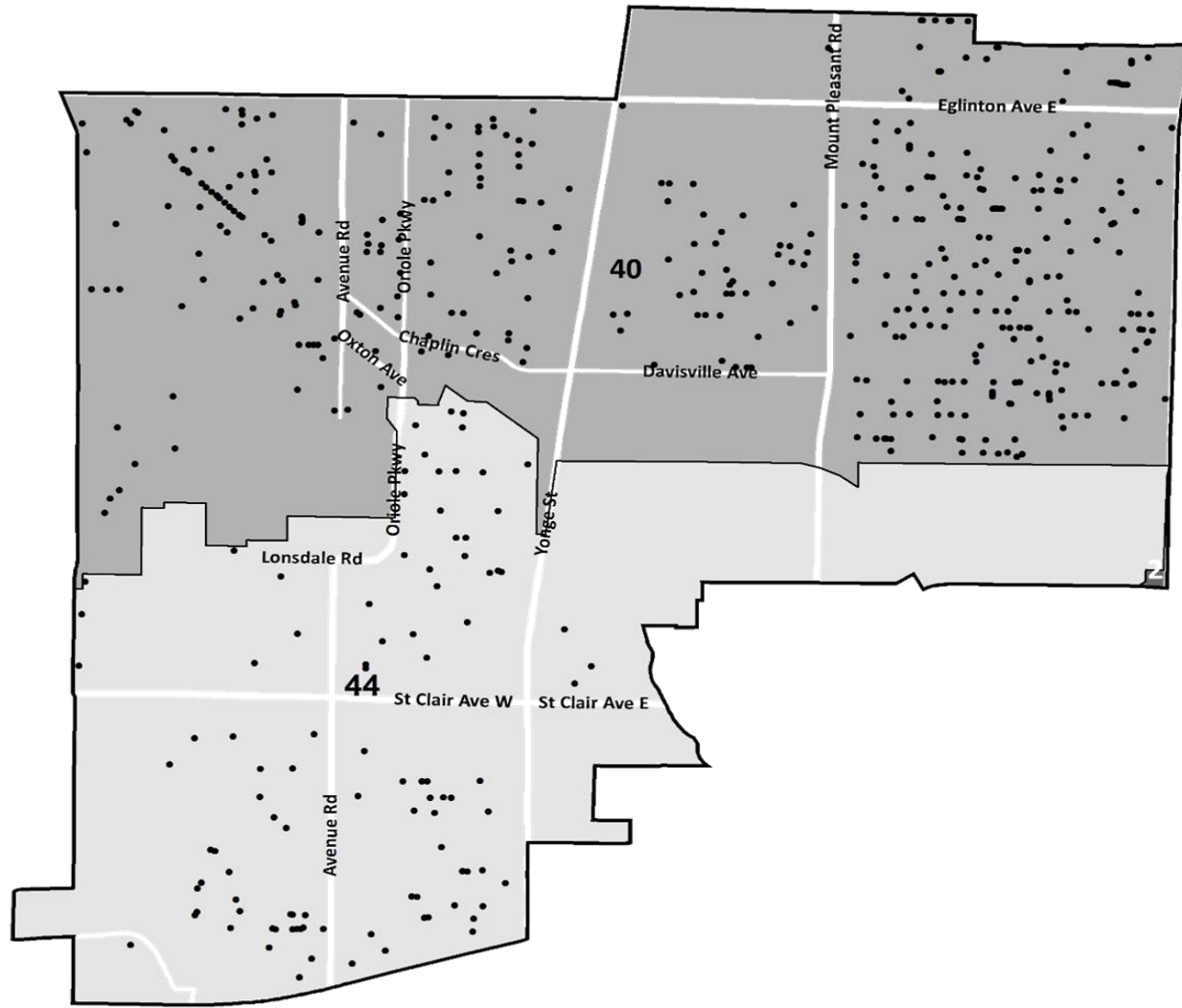
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 40px; background-color: #003366; color: white; display: flex; align-items: center; justify-content: center;">657</div> <div style="border: 1px solid black; width: 200px; height: 40px; background-color: #003366; color: white; display: flex; align-items: center; justify-content: center;">4458</div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 150px; height: 40px; background-color: #003366; color: white; display: flex; align-items: center; justify-content: center;">\$ 1.19 M</div> <div style="border: 1px solid black; width: 100px; height: 40px; background-color: #ccc; color: black; display: flex; align-items: center; justify-content: center;">\$ 0.83 M</div> </div>

Basement Flooding Protection Program Summary

Ward 22 - St. Paul's



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
40	Underway (began in 2015)	<div style="display: flex; justify-content: flex-end; margin-top: 10px;"> <ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied </div>
44	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

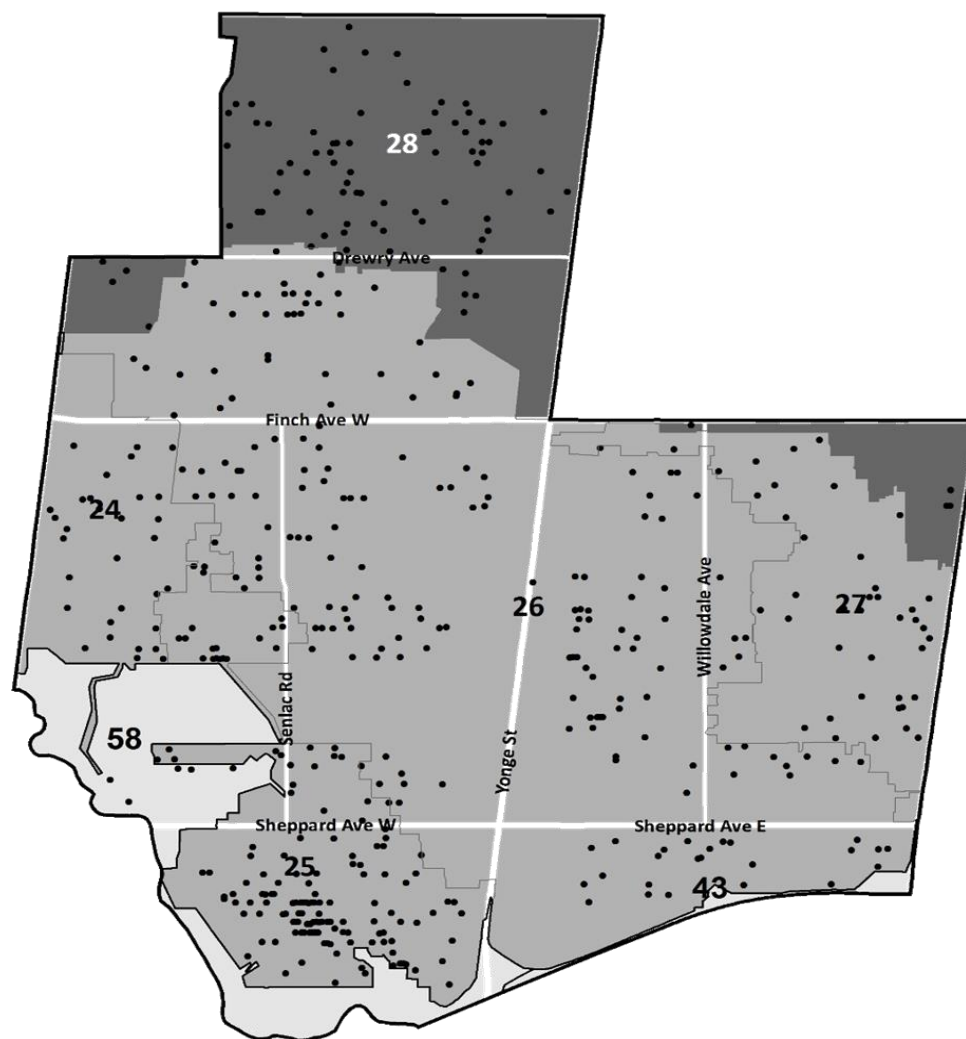
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) </div>	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; font-size: small;"> ■ Properties with FPD ■ Properties without FPD </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #003366; color: white; padding: 5px; border: 1px solid black;">512</div> <div style="background-color: #003366; color: white; padding: 5px; border: 1px solid black;">4406</div> </div>	<div style="display: flex; justify-content: space-around; font-size: small;"> ■ Subsidized by City ■ Cost to Property Owners </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: #003366; color: white; padding: 5px; border: 1px solid black;">\$ 0.87 M</div> <div style="background-color: #999; color: white; padding: 5px; border: 1px solid black;">\$ 0.62 M</div> </div>

Basement Flooding Protection Program Summary

Ward 23 - Willowdale



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward						
24	Underway (began in 2012)	<table border="1"> <tr> <td>Area Studied</td> <td>20%</td> </tr> <tr> <td>Study is Underway</td> <td>73%</td> </tr> <tr> <td>Area to be Studied</td> <td>8%</td> </tr> </table>	Area Studied	20%	Study is Underway	73%	Area to be Studied	8%
Area Studied	20%							
Study is Underway	73%							
Area to be Studied	8%							
25	Underway (began in 2012)							
26	Underway (began in 2012)							
27	Underway (began in 2012)							
28	Completed (2008)							
43	To begin in 2017							
58	To begin in 2022							

Basement Flooding Protection Program Implementation Summary - to end of 2016

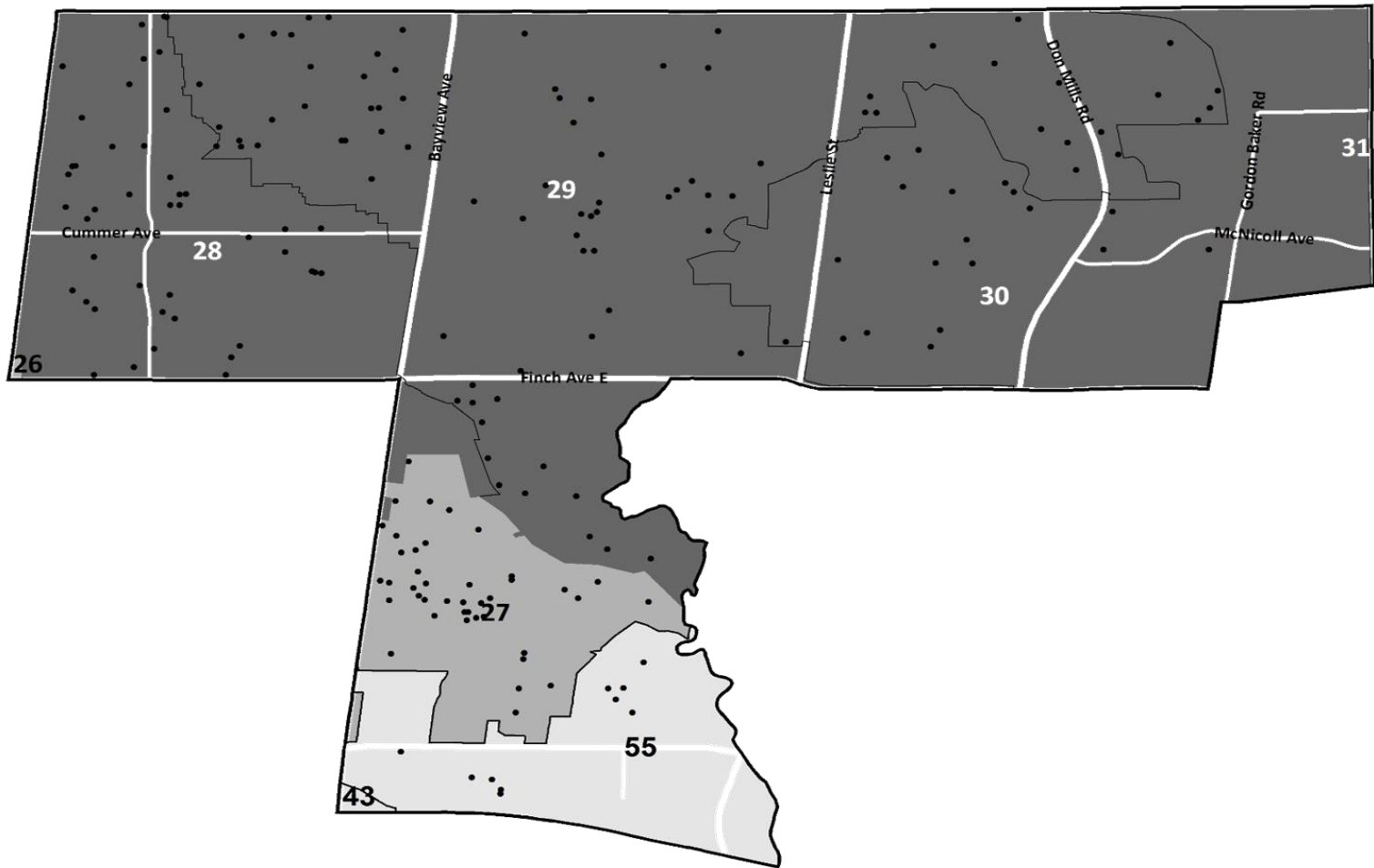
Project Implementation Progress	Project Highlights
<p>TOTAL \$ 47.3 M</p> <ul style="list-style-type: none"> Constructed: \$ 37.4 M, 79% Deferred (>\$32,000 per benefitting property): \$ 9.8 M, 21% 	<ul style="list-style-type: none"> •9.5 km of storm sewer upgrades installed •300 m of sanitary sewer upgrades installed •Installation of Moore Park Stormwater Management Pond

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD: 484 Properties without FPD: 7867 	<ul style="list-style-type: none"> Subsidized by City: \$ 0.83 M Cost to Property Owners: \$ 0.63 M

Basement Flooding Protection Program Summary

Ward 24 - Willowdale



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
27	Underway (began in 2012)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied </div> <div style="text-align: center;"> Study is Underway </div> <div style="text-align: center;"> Area to be Studied </div> </div>
28	Completed (2008)	
29	Completed (2008)	
30	Completed (2008)	
55	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Constructed </div> <div style="text-align: center;"> Under Construction </div> <div style="text-align: center;"> Design Process Initiated </div> <div style="text-align: center;"> Planned for Design Initiation </div> <div style="text-align: center;"> Deferred (>\$32,000 per benefitting property) </div> </div>	<ul style="list-style-type: none"> • 1.9 km of storm sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Properties with FPD 197 </div> <div style="text-align: center;"> Properties without FPD 6601 </div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Subsidized by City \$ 0.31 M </div> <div style="text-align: center;"> Cost to Property Owners \$ 0.24 M </div> </div>

Basement Flooding Protection Program Summary

Ward 26 - Don Valley West



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
2	Completed (2015)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
46	To begin in 2018	
55	To begin in 2022	
58	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

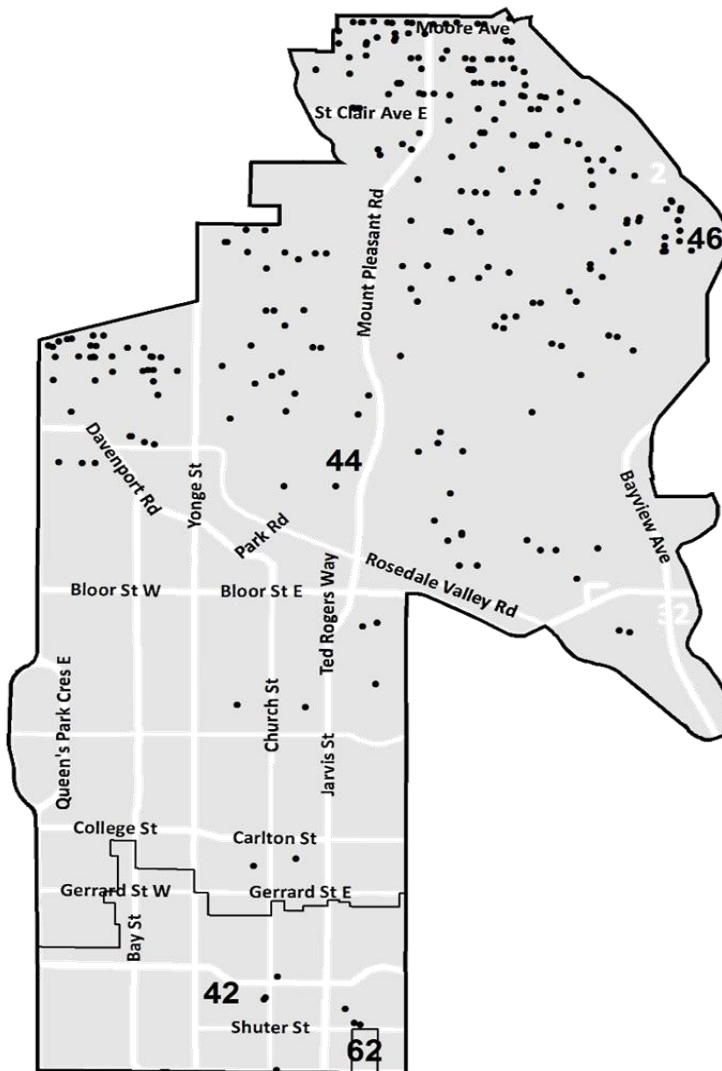
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefiting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>342</p> </div> <div style="text-align: center;"> <p>2906</p> </div> </div>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>\$ 0.55 M</p> </div> <div style="text-align: center;"> <p>\$ 0.46 M</p> </div> </div>

Basement Flooding Protection Program Summary

Ward 27 - Toronto Centre—Rosedale



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
42	To begin in 2017	<p>100%</p>
44	To begin in 2017	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

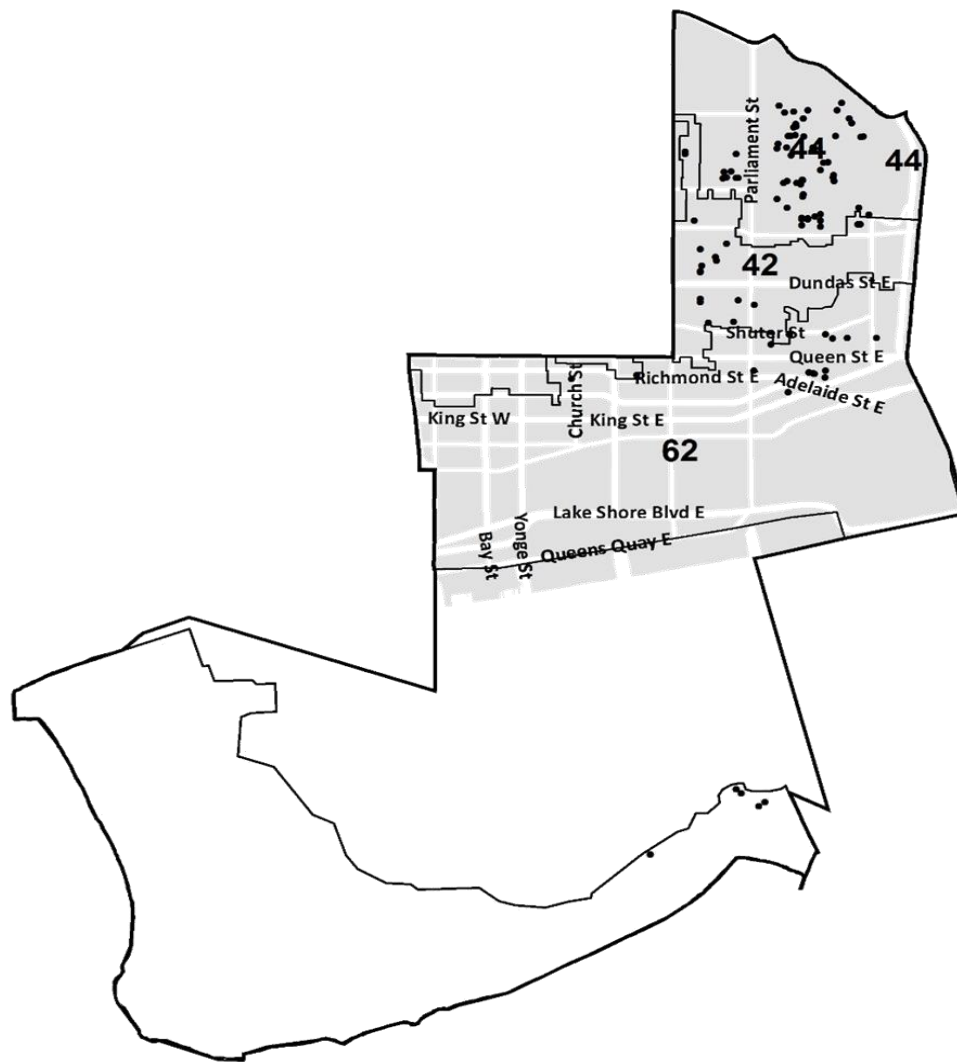
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> ■ Constructed ■ Under Construction ■ Design Process Initiated ■ Planned for Design Initiation ■ Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> ■ Properties with FPD ■ Properties without FPD <p>255 2923</p>	<ul style="list-style-type: none"> ■ Subsidized by City ■ Cost to Property Owners <p>\$ 0.44 M \$ 0.37 M</p>

Basement Flooding Protection Program Summary

Ward 28 - Toronto Centre—Rosedale



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
42	To begin in 2017	<p style="text-align: center;">100%</p>
44	To begin in 2017	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures	
■ Properties with FPD ■ Properties without FPD	■ Subsidized by City ■ Cost to Property Owners	
<p style="text-align: center;">92 1991</p>	<p style="text-align: center;">\$ 0.16 M \$ 0.11 M</p>	

Basement Flooding Protection Program Summary

Ward 29 - Toronto—Danforth



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
2	Completed (2015)	<p>24% 76%</p> <ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
32	Completed (2012)	
46	To begin in 2018	
47	To begin in 2018	

Basement Flooding Protection Program Implementation Summary - to end of 2016

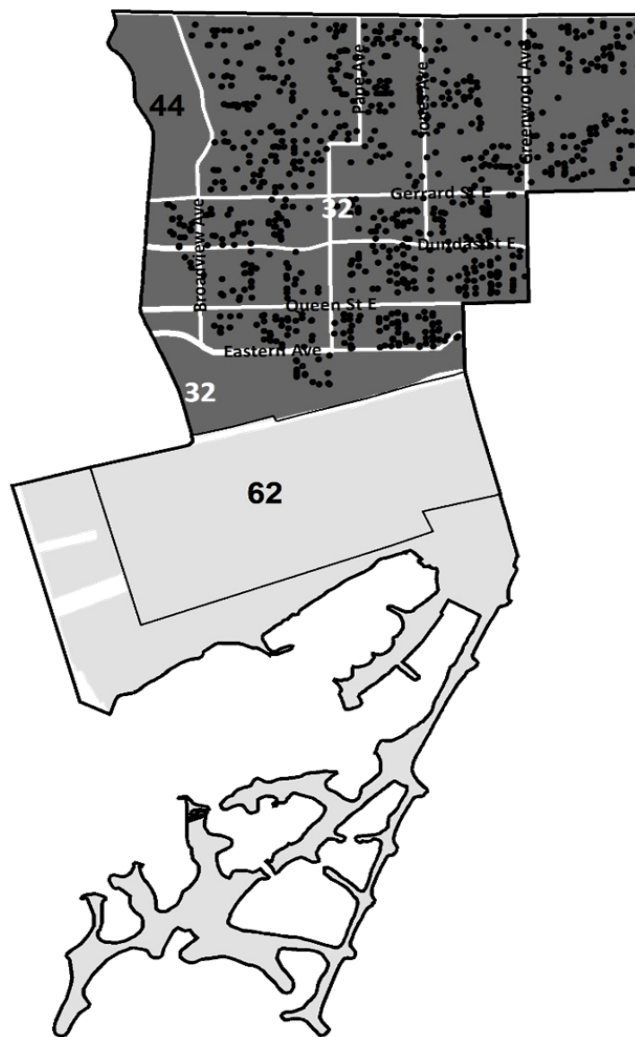
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the next Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <p>612 6447</p>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <p>\$ 1.03 M \$ 0.77 M</p>

Basement Flooding Protection Program Summary

Ward 30 - Toronto—Danforth



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
32	Completed (2012)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

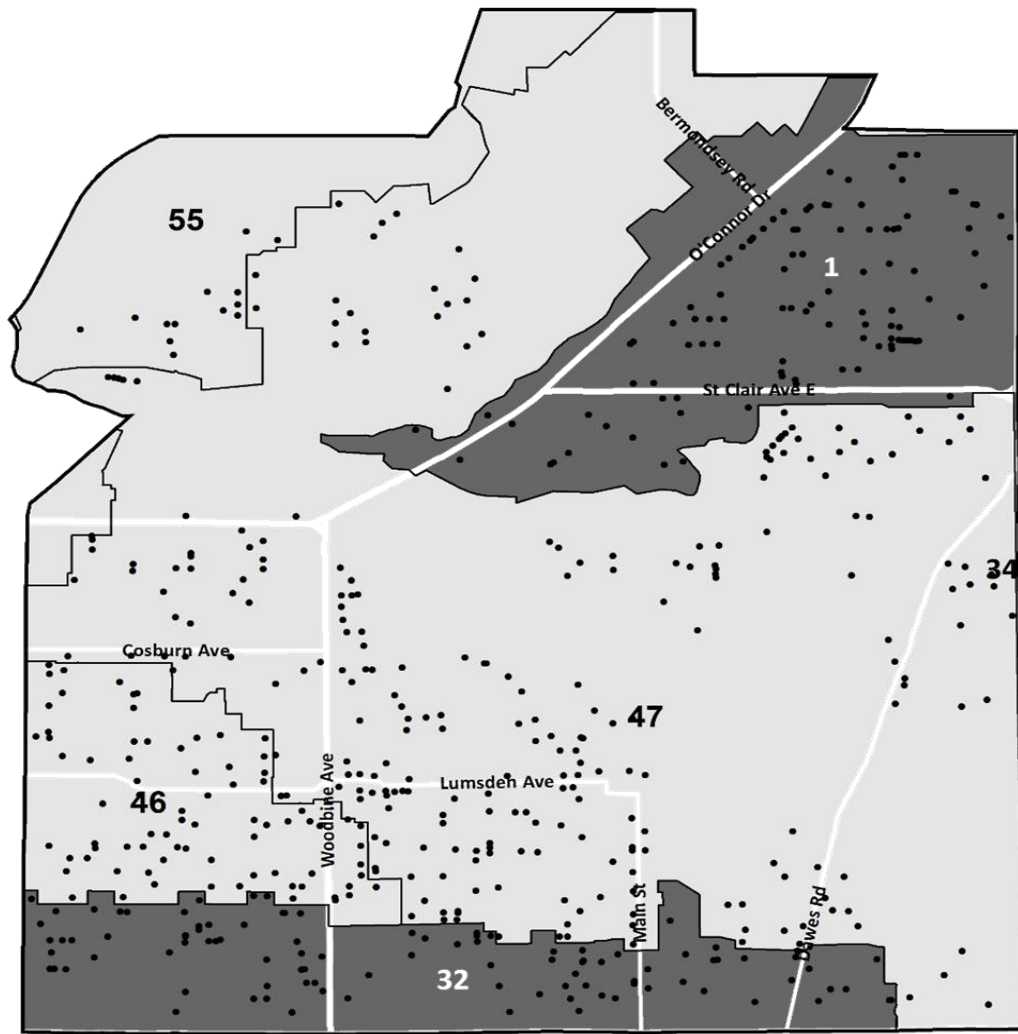
Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	<ul style="list-style-type: none"> 150 m of storm sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<p>859 6686</p>	<p>\$ 1.47 M \$ 1.06 M</p>

Basement Flooding Protection Program Summary

Ward 31 - Beaches—East York



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
1	Completed (2014)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
32	Completed (2012)	
46	To begin in 2018	
47	To begin in 2018	
55	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<p style="text-align: center;">TOTAL \$ 16.7 M</p> <p>\$ 16.7 M, 100%</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: lightblue; width: 100px; height: 20px; text-align: center;">553</div> <div style="background-color: darkblue; width: 300px; height: 20px; text-align: center;">6989</div> </div>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: darkblue; width: 150px; height: 20px; text-align: center;">\$ 0.91 M</div> <div style="background-color: lightblue; width: 150px; height: 20px; text-align: center;">\$ 0.64 M</div> </div>

Basement Flooding Protection Program Summary

Ward 32 - Beaches—East York



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
32	Completed (2012)	
47	To begin in 2018	
62	To begin in 2017	

Basement Flooding Protection Program Implementation Summary - to end of 2016

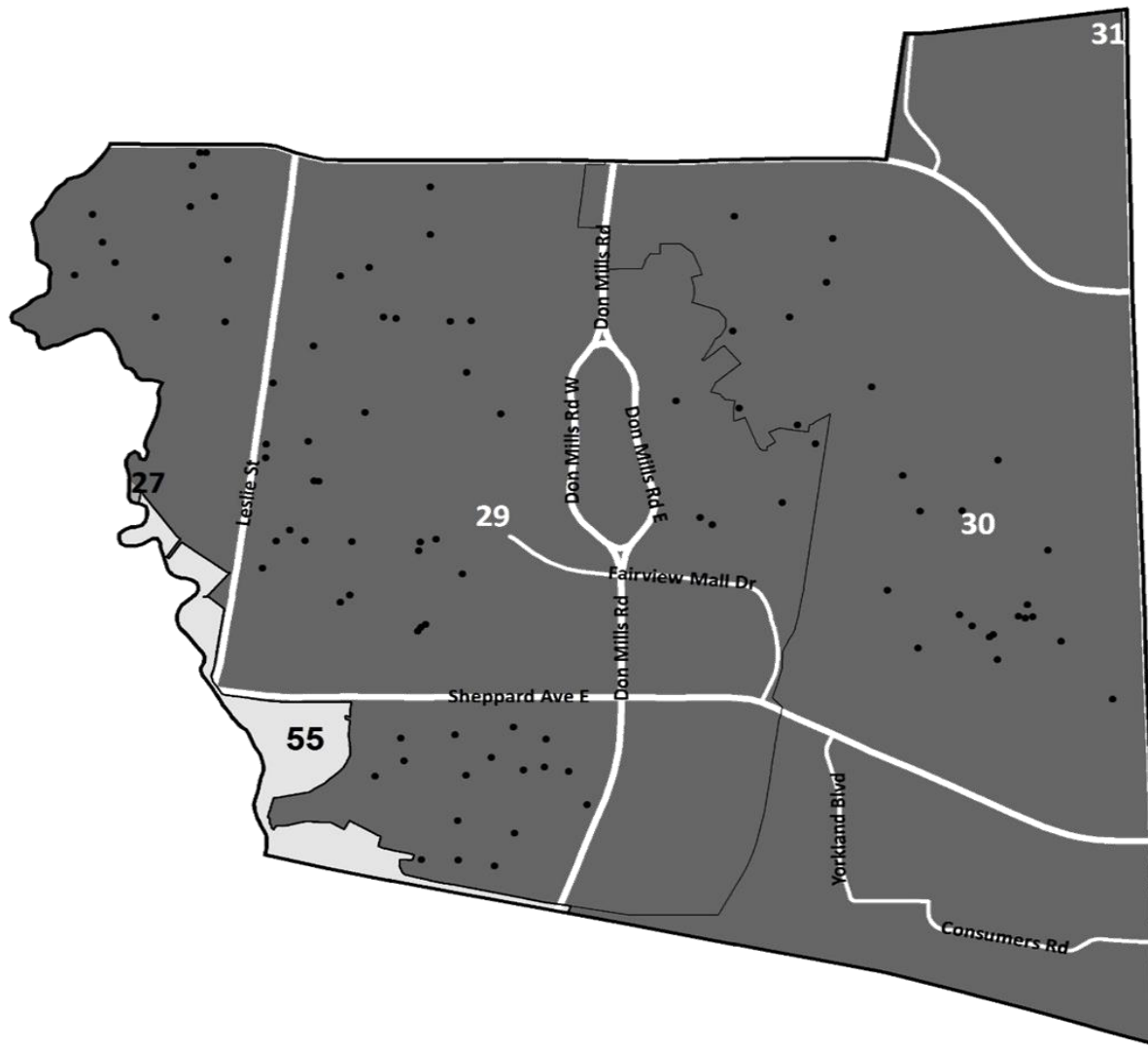
Project Implementation Progress	Project Highlights
	<ul style="list-style-type: none"> •240 m of combined sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> ■ Properties with FPD ■ Properties without FPD 	<ul style="list-style-type: none"> ■ Subsidized by City ■ Cost to Property Owners
<p>994 7881</p>	<p>\$ 1.58 M \$ 1.34 M</p>

Basement Flooding Protection Program Summary

Ward 33 - Don Valley East



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
29	Completed (2008)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied Study is Underway Area to be Studied </div> </div>
30	Completed (2008)	
55	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

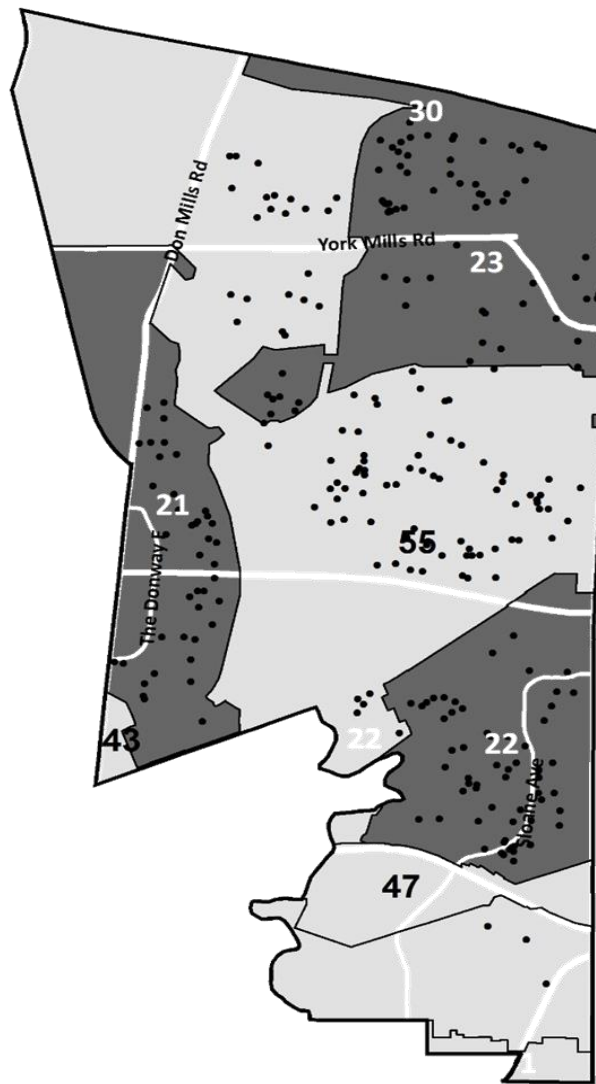
Project Implementation Progress	Project Highlights
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefiting property) </div> </div>	<ul style="list-style-type: none"> •4.9 km of storm sewer upgrades installed •100 m of sanitary sewer upgrades installed •Muirhead Park SWM Pond, Old Sheppard Underground Storm Tank

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> ■ Properties with FPD ■ Properties without FPD </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: blue; width: 100px; height: 20px; display: flex; align-items: center; justify-content: center;"> 91 </div> <div style="background-color: darkblue; width: 200px; height: 20px; display: flex; align-items: center; justify-content: center;"> 5546 </div> </div>	<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> ■ Subsidized by City ■ Cost to Property Owners </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: blue; width: 100px; height: 20px; display: flex; align-items: center; justify-content: center;"> \$ 0.15 M </div> <div style="background-color: lightblue; width: 100px; height: 20px; display: flex; align-items: center; justify-content: center;"> \$ 0.12 M </div> </div>

Basement Flooding Protection Program Summary

Ward 34 - Don Valley East



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
21	Completed (2016)	
22	Completed (2014)	
23	Completed (2016)	
30	Completed (2008)	
43	To begin in 2017	
47	To begin in 2018	
55	To begin in 2022	

Basement Flooding Protection Program Implementation Summary - to end of 2016

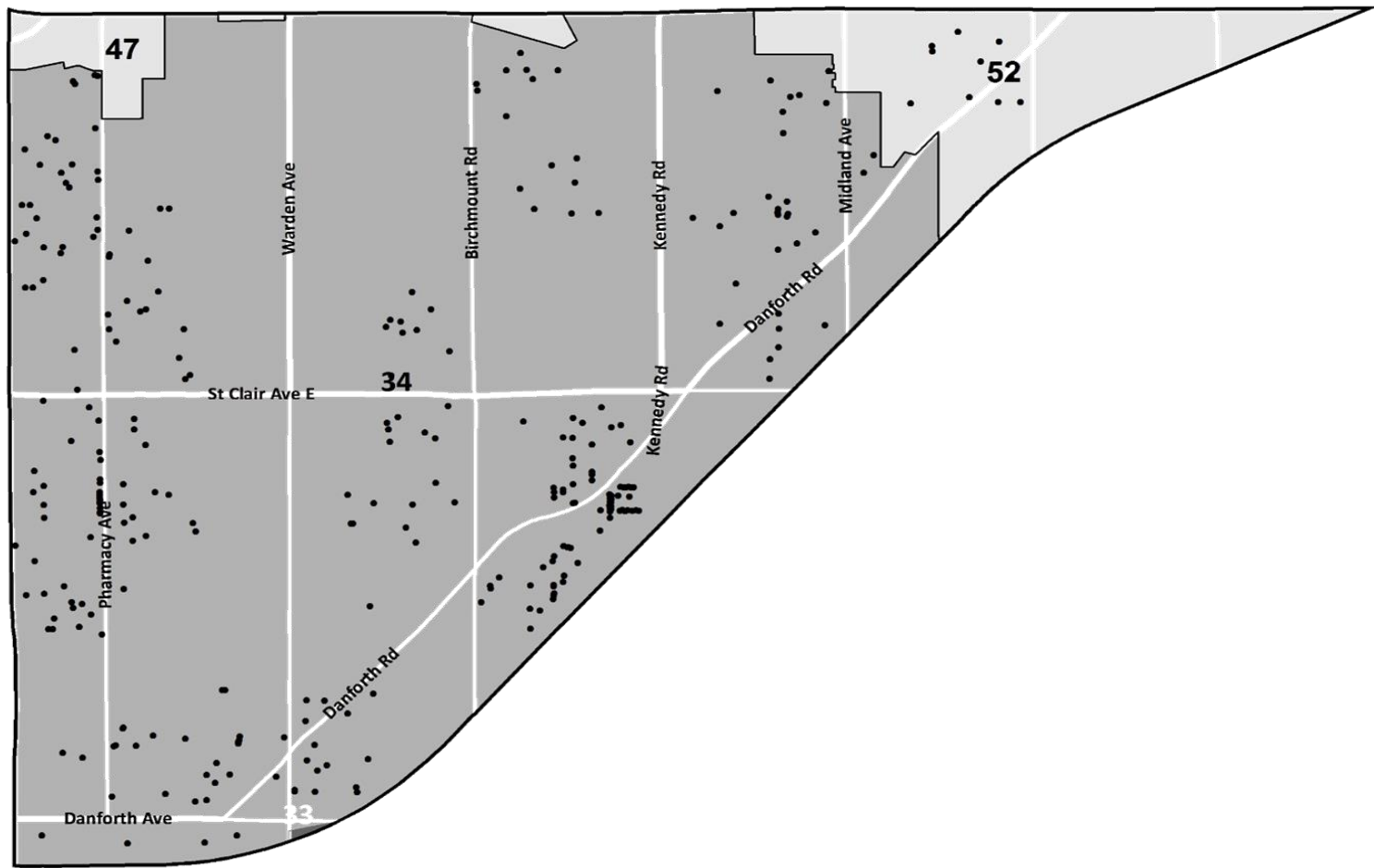
Project Implementation Progress	Project Highlights
<p style="text-align: center;">TOTAL \$ 41.8 M</p> <p>\$ 41.8 M, 100%</p> <ul style="list-style-type: none"> ■ Constructed ■ Under Construction ■ Design Process Initiated ■ Planned for Design Initiation ■ Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> ■ Properties with FPD ■ Properties without FPD <p style="text-align: center;">275 4898</p>	<ul style="list-style-type: none"> ■ Subsidized by City ■ Cost to Property Owners <p style="text-align: center;">\$ 0.44 M \$ 0.36 M</p>

Basement Flooding Protection Program Summary

Ward 35 - Scarborough Southwest



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
34	Underway (began in 2015)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied </div> <div style="text-align: center;"> Study is Underway </div> <div style="text-align: center;"> Area to be Studied </div> </div>
47	To begin in 2018	
52	To begin in 2020	

Basement Flooding Protection Program Implementation Summary - to end of 2016

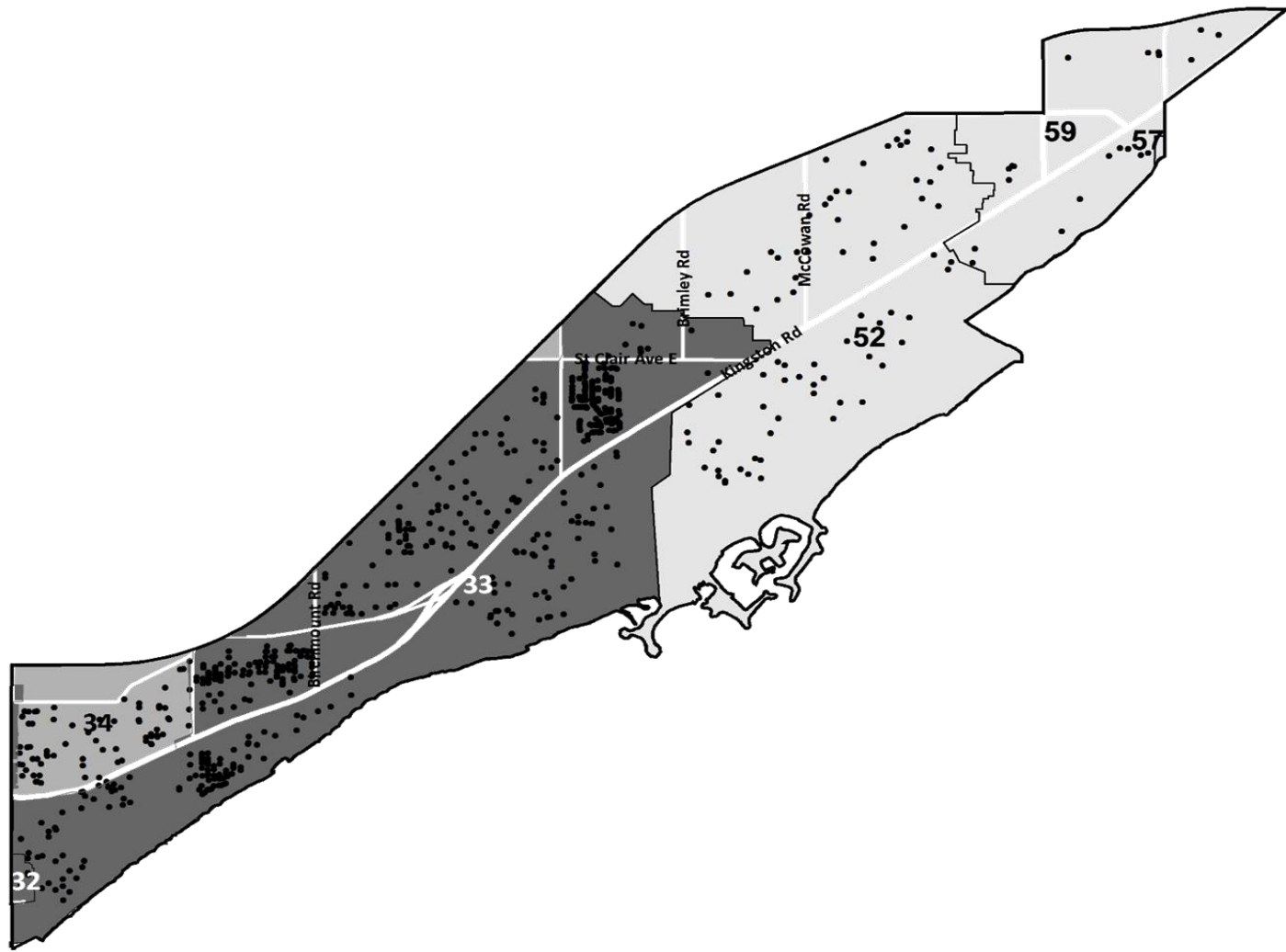
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) </div>	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> ■ Properties with FPD 299 </div> <div style="text-align: center;"> ■ Properties without FPD 7206 </div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> ■ Subsidized by City \$ 0.51 M </div> <div style="text-align: center;"> ■ Cost to Property Owners \$ 0.31 M </div> </div>

Basement Flooding Protection Program Summary

Ward 36 - Scarborough Southwest



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
32	Completed (2012)	<ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
33	Completed (2011)	
34	Underway (began in 2015)	
52	To begin in 2020	
59	To begin in 2024	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<p>698 7564</p>	<p>\$ 1.19 M \$ 0.66 M</p>

Basement Flooding Protection Program Summary

Ward 37 - Scarborough Centre



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward						
30	Completed (2008)	<table border="1"> <tr> <td>Area Studied</td> <td>28%</td> </tr> <tr> <td>Study is Underway</td> <td>71%</td> </tr> <tr> <td>Area to be Studied</td> <td>1%</td> </tr> </table>	Area Studied	28%	Study is Underway	71%	Area to be Studied	1%
Area Studied	28%							
Study is Underway	71%							
Area to be Studied	1%							
34	Underway (began in 2015)							
47	To begin in 2018							
52	To begin in 2020							
59	To begin in 2024							
60	To begin in 2024							

Basement Flooding Protection Program Implementation Summary - to end of 2016

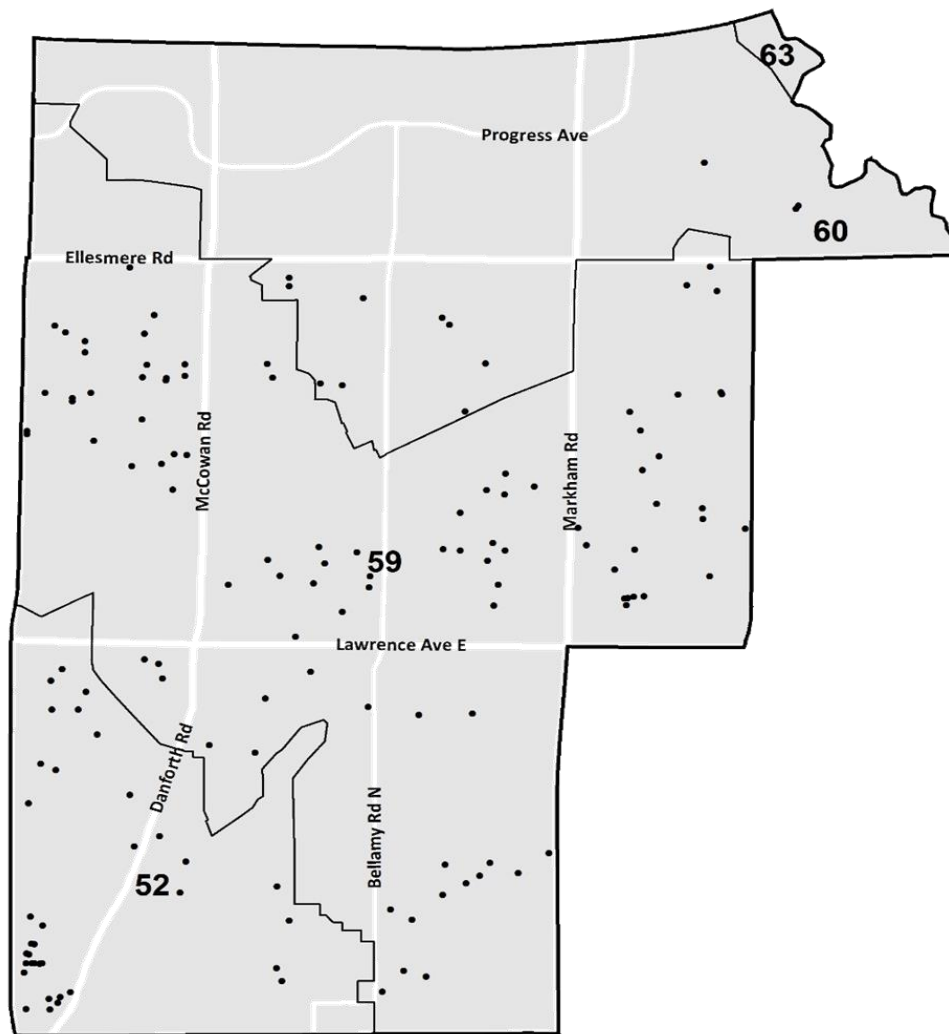
Project Implementation Progress	Project Highlights					
<p style="text-align: center;">TOTAL \$19.1 M</p> <p>\$19.1 M, 100%</p> <table border="1"> <tr> <td>Constructed</td> <td>Under Construction</td> <td>Design Process Initiated</td> <td>Planned for Design Initiation</td> <td>Deferred (>\$32,000 per benefitting property)</td> </tr> </table>	Constructed	Under Construction	Design Process Initiated	Planned for Design Initiation	Deferred (>\$32,000 per benefitting property)	
Constructed	Under Construction	Design Process Initiated	Planned for Design Initiation	Deferred (>\$32,000 per benefitting property)		

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures								
<table border="1"> <tr> <td>Properties with FPD</td> <td>Properties without FPD</td> </tr> <tr> <td style="text-align: center;">262</td> <td style="text-align: center;">9083</td> </tr> </table>	Properties with FPD	Properties without FPD	262	9083	<table border="1"> <tr> <td>Subsidized by City</td> <td>Cost to Property Owners</td> </tr> <tr> <td style="text-align: center;">\$ 0.43 M</td> <td style="text-align: center;">\$ 0.29 M</td> </tr> </table>	Subsidized by City	Cost to Property Owners	\$ 0.43 M	\$ 0.29 M
Properties with FPD	Properties without FPD								
262	9083								
Subsidized by City	Cost to Property Owners								
\$ 0.43 M	\$ 0.29 M								

Basement Flooding Protection Program Summary

Ward 38 - Scarborough Centre



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
52	To begin in 2020	<p style="text-align: center;">100%</p>
59	To begin in 2024	
60	To begin in 2024	
63	To begin in 2025	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<p style="text-align: center;">■ Properties with FPD ■ Properties without FPD</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; width: 100px; height: 20px; display: flex; align-items: center; justify-content: center;">145</div> <div style="background-color: #0056b3; width: 300px; height: 20px; display: flex; align-items: center; justify-content: center;">7099</div> </div>	<p style="text-align: center;">■ Subsidized by City ■ Cost to Property Owners</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; width: 150px; height: 20px; display: flex; align-items: center; justify-content: center;">\$ 0.25 M</div> <div style="background-color: #a6c9ec; width: 100px; height: 20px; display: flex; align-items: center; justify-content: center;">\$ 0.17 M</div> </div>

Basement Flooding Protection Program Summary

Ward 39 - Scarborough—Agincourt



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
30	Completed (2008)	<p>88% Area Studied 12% Area to be Studied</p> <ul style="list-style-type: none"> Area Studied Study is Underway Area to be Studied
31	Completed (2011)	
59	To begin in 2024	
60	To begin in 2024	

Basement Flooding Protection Program Implementation Summary - to end of 2016

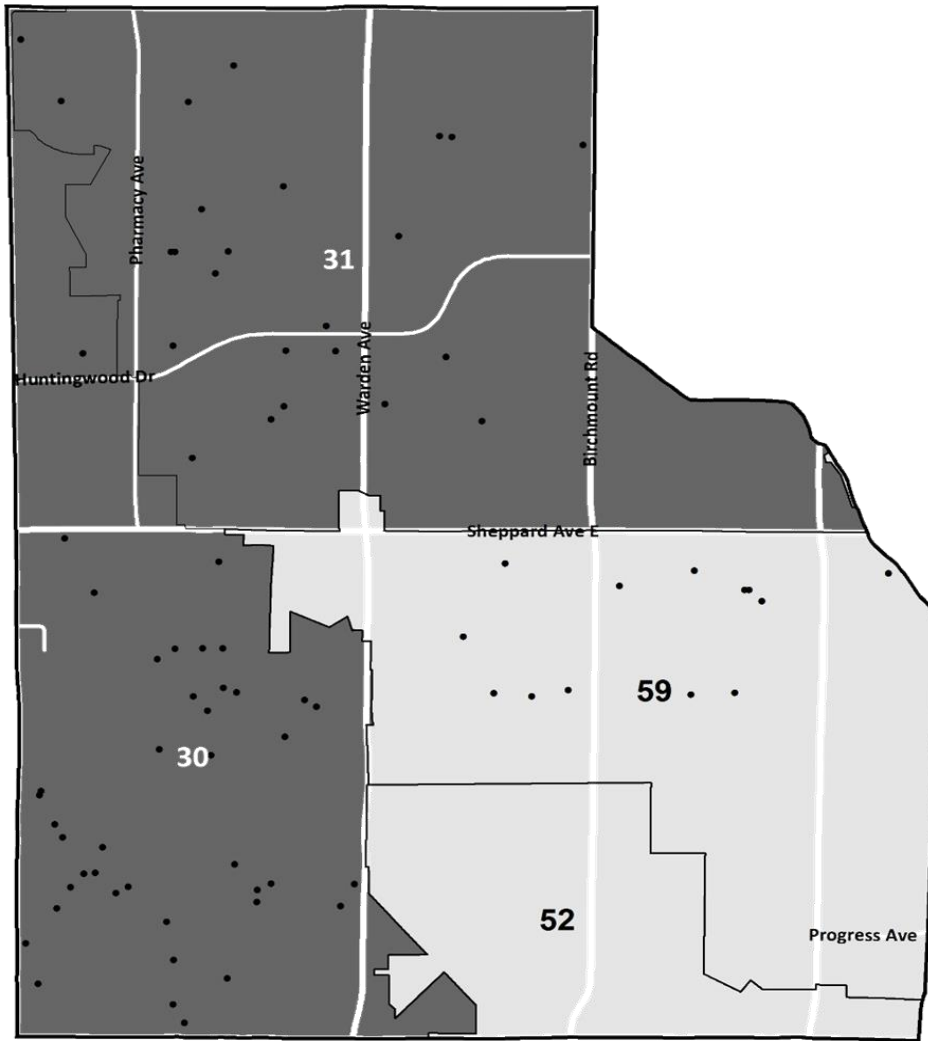
Project Implementation Progress	Project Highlights
<p>TOTAL \$ 13.9 M</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	<ul style="list-style-type: none"> •1 km of storm sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <p>31 6183</p>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <p>\$ 0.06 M \$ 0.03 M</p>

Basement Flooding Protection Program Summary

Ward 40 - Scarborough—Agincourt



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
30	Completed (2008)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied </div> <div style="text-align: center;"> Study is Underway </div> <div style="text-align: center;"> Area to be Studied </div> </div>
31	Completed (2011)	
52	To begin in 2020	
59	To begin in 2024	

Basement Flooding Protection Program Implementation Summary - to end of 2016

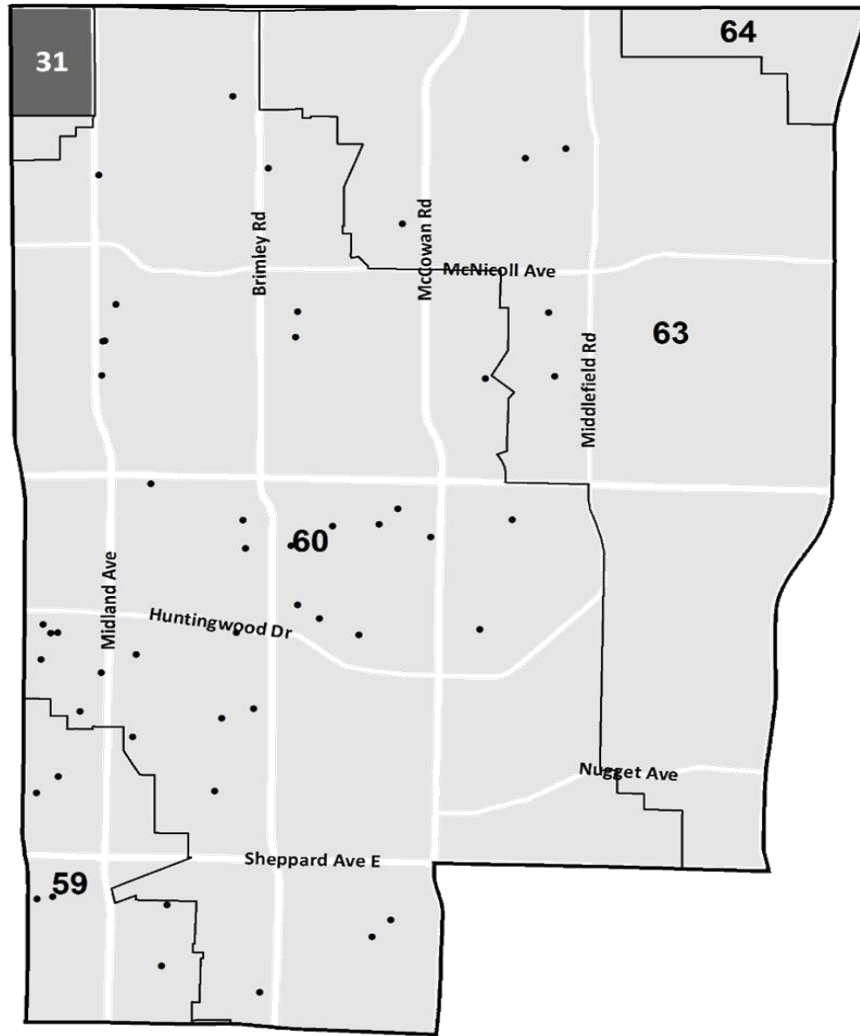
Project Implementation Progress	Project Highlights
<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Constructed </div> <div style="text-align: center;"> Under Construction </div> <div style="text-align: center;"> Design Process Initiated </div> <div style="text-align: center;"> Planned for Design Initiation </div> <div style="text-align: center;"> Deferred (>\$32,000 per benefitting property) </div> </div>	<ul style="list-style-type: none"> •800 m of storm sewer upgrades installed •400 m of sanitary sewer upgrades installed

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Properties with FPD 79 </div> <div style="text-align: center;"> Properties without FPD 5856 </div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> Subsidized by City \$ 0.14 M </div> <div style="text-align: center;"> Cost to Property Owners \$ 0.09 M </div> </div>

Basement Flooding Protection Program Summary

Ward 41 - Scarborough—Rouge River



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
31	Completed (2011)	<div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> Area Studied </div> <div style="text-align: center;"> Study is Underway </div> <div style="text-align: center;"> Area to be Studied </div> </div>
59	To begin in 2024	
60	To begin in 2024	
63	To begin in 2025	
64	To begin in 2025	

Basement Flooding Protection Program Implementation Summary - to end of 2016

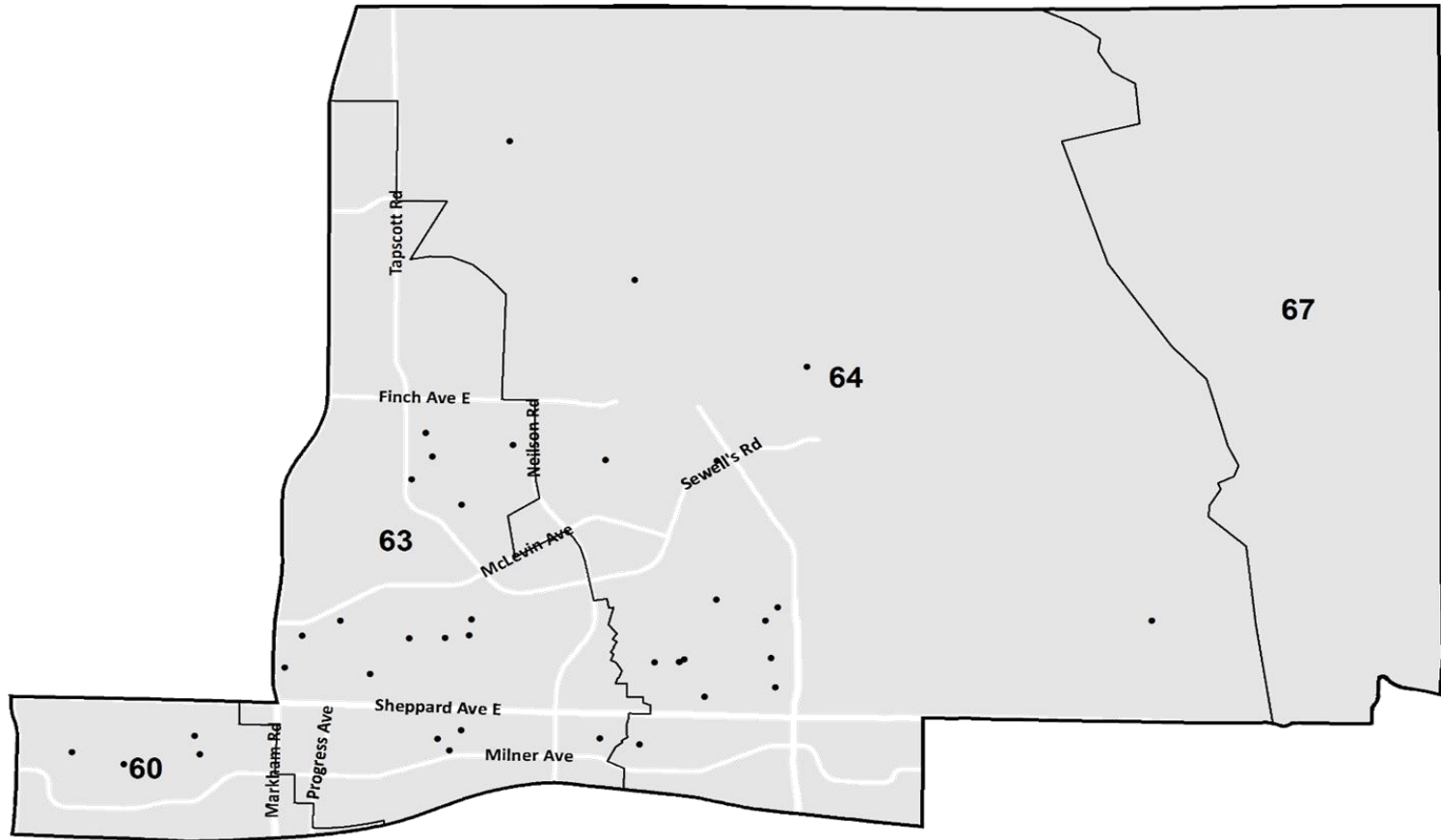
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the next Environmental Assessment Study in this ward</p> <div style="margin-top: 10px;"> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) </div>	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<div style="display: flex; justify-content: space-around; font-size: small;"> ■ Properties with FPD ■ Properties without FPD </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: blue; width: 40%; height: 20px; display: flex; align-items: center; justify-content: center;"> 47 </div> <div style="background-color: blue; width: 60%; height: 20px; display: flex; align-items: center; justify-content: center;"> 8976 </div> </div>	<div style="display: flex; justify-content: space-around; font-size: small;"> ■ Subsidized by City ■ Cost to Property Owners </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="background-color: blue; width: 40%; height: 20px; display: flex; align-items: center; justify-content: center;"> \$ 0.08 M </div> <div style="background-color: lightblue; width: 60%; height: 20px; display: flex; align-items: center; justify-content: center;"> \$ 0.06 M </div> </div>

Basement Flooding Protection Program Summary

Ward 42 - Scarborough—Rouge River



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
60	To begin in 2024	<p style="text-align: center;">100%</p>
63	To begin in 2025	
64	To begin in 2025	
67	To begin in 2025	

Basement Flooding Protection Program Implementation Summary - to end of 2016

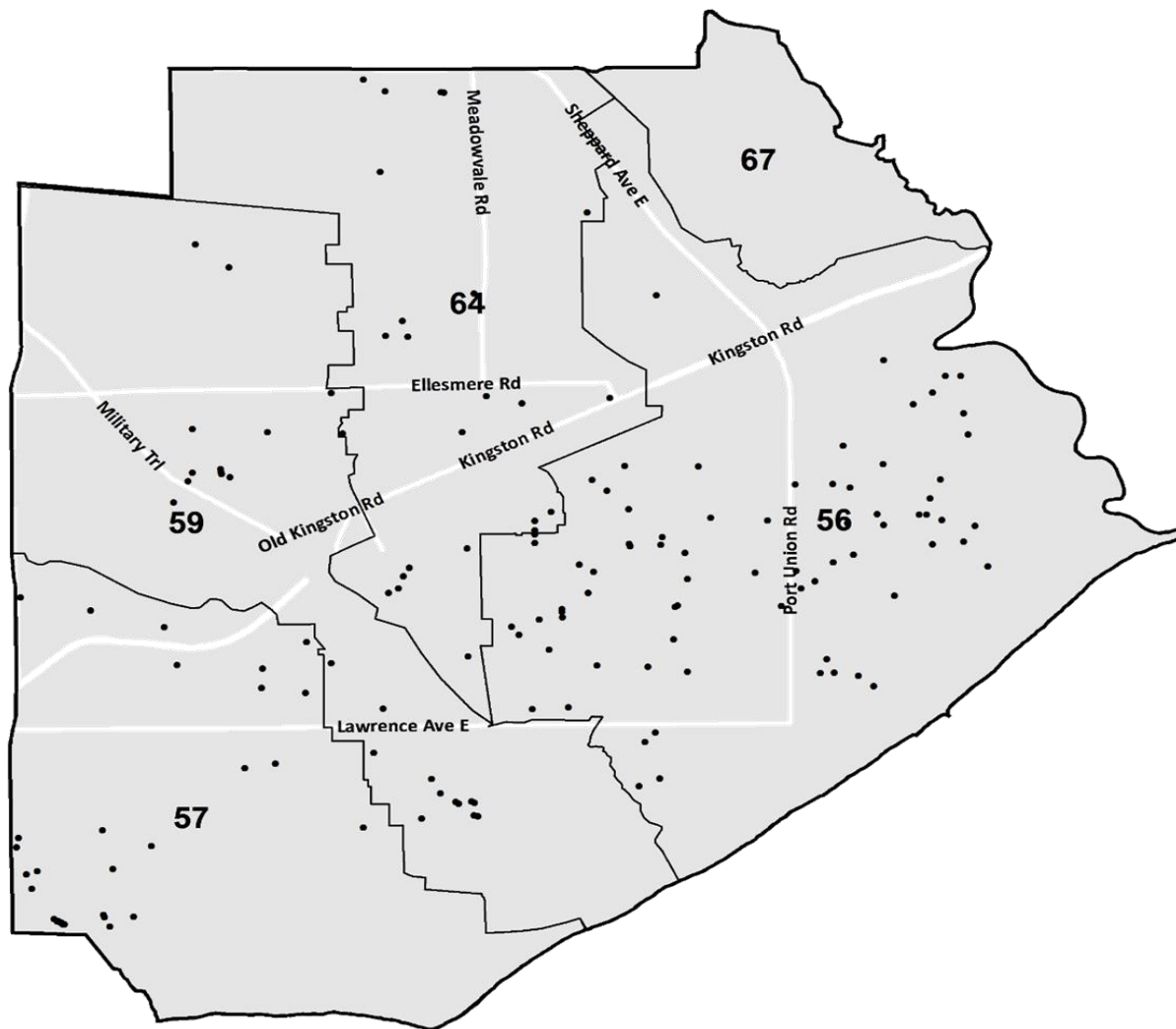
Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="background-color: #4f81bd; width: 40%; height: 20px; display: flex; align-items: center; justify-content: center;"> 38 </div> <div style="background-color: #2e5496; width: 60%; height: 20px; display: flex; align-items: center; justify-content: center;"> 9417 </div> </div>	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="background-color: #4f81bd; width: 45%; height: 20px; display: flex; align-items: center; justify-content: center;"> \$ 0.06 M </div> <div style="background-color: #a6c9ec; width: 55%; height: 20px; display: flex; align-items: center; justify-content: center;"> \$ 0.04 M </div> </div>

Basement Flooding Protection Program Summary

Ward 44 - Scarborough East



Properties With Installed Flooding Protection Device(s) (FPD), 2006 to Q2 2016	●	Completed Environmental Assessment (EA) Study Area	#
		Ongoing Environmental Assessment (EA) Study Area	#
		Future Environmental Assessment (EA) Study Area	#

Basement Flooding Environmental Assessment (EA) Studies Summary - to end of 2016

Study Areas in Ward	Status of EA Studies	EA Study Progress in Ward
56	To begin in 2022	<p style="text-align: center;">100%</p>
57	To begin in 2022	
59	To begin in 2024	
64	To begin in 2025	
67	To begin in 2025	

Basement Flooding Protection Program Implementation Summary - to end of 2016

Project Implementation Progress	Project Highlights
<p>Implementation will proceed following completion of the first Environmental Assessment Study in this ward</p> <ul style="list-style-type: none"> Constructed Under Construction Design Process Initiated Planned for Design Initiation Deferred (>\$32,000 per benefitting property) 	

Basement Flooding Protection Subsidy Program Summary - 2006 to Q2 2016

Program Participation	Program Expenditures
<ul style="list-style-type: none"> Properties with FPD Properties without FPD 	<ul style="list-style-type: none"> Subsidized by City Cost to Property Owners
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #003366; color: white; padding: 5px; border-radius: 5px;">151</div> <div style="background-color: #336699; color: white; padding: 5px; border-radius: 5px;">9338</div> </div>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #003366; color: white; padding: 5px; border-radius: 5px;">\$ 0.25 M</div> <div style="background-color: #99c2ff; color: white; padding: 5px; border-radius: 5px;">\$ 0.18 M</div> </div>