

# Projected 2017-2019 Asset Preservation Plan

## Roadway & Sidewalk Assets

AND

## Water & Sewer Assets





# Table of Contents

<b>Roadway &amp; Sidewalk Preservation Plan</b>	<b>1-1</b>
Roadway & Sidewalk Assets	1-3
Assumptions	1-3
2017-2019 Projected Budgets	1-4
2017 Planned Treatments, Unit Rates, & Quantities Preserved	1-4
Roadway & Sidewalk Treatment Description	1-5
Project Locations by Ward & Expressways	1-7
 <b>Water &amp; Sewer Preservation Plan</b>	 <b>2-1</b>
Water & Sewer Assets	2-3
Assumptions	2-3
2017-2019 Projected Budgets	2-4
2017 Planned Treatments, Unit Rates, & Quantities Preserved	2-4
Water & Sewer Treatment Description	2-5
Project Locations by Type	2-7





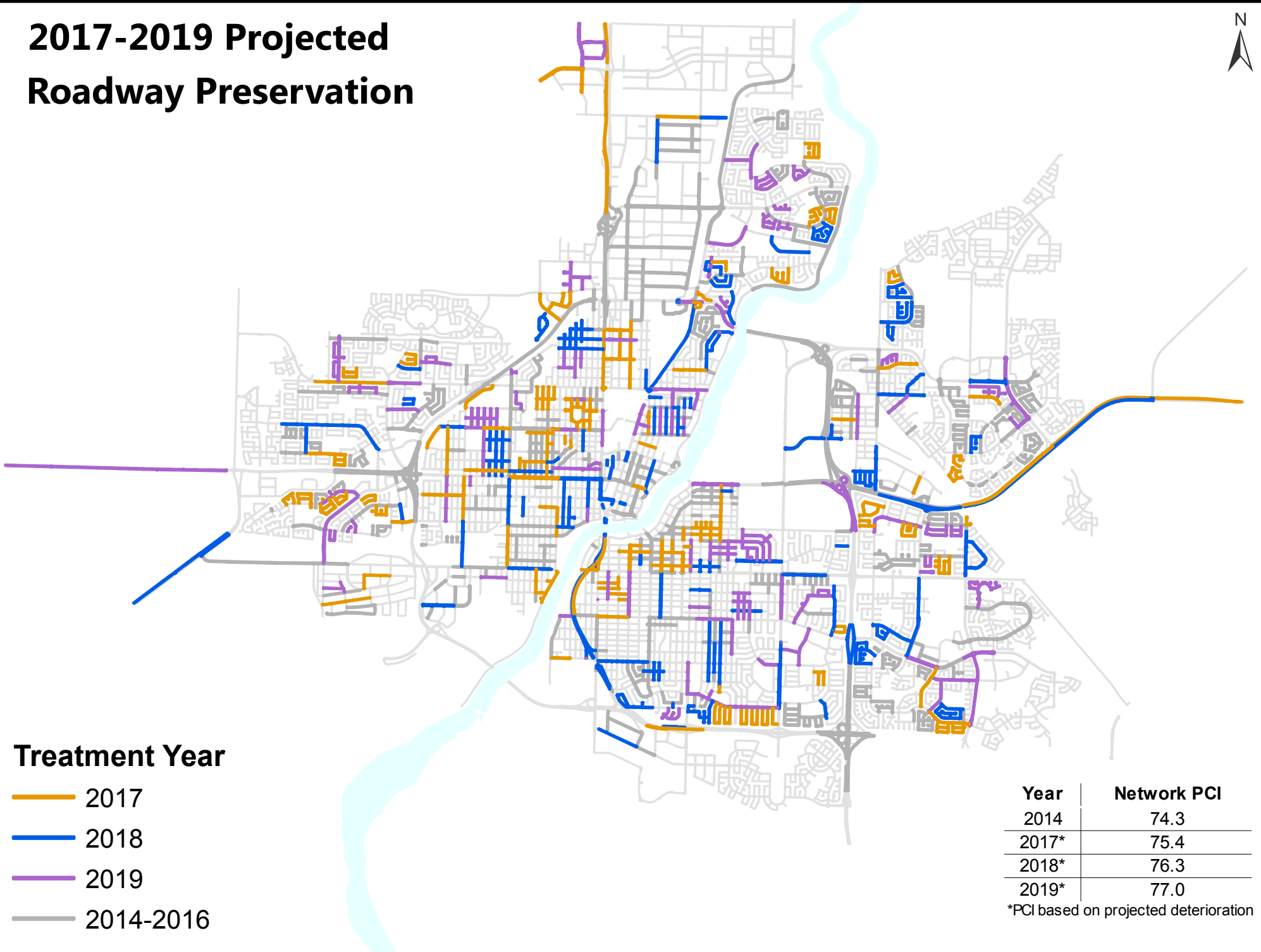
# Projected 2017-2019 Roadway & Sidewalk Preservation Plan



**BUILDING  
BETTER  
ROADS**  
SASKATOON'S ROAD PLAN

  
*City of*  
**Saskatoon**

# 2017-2019 Projected Roadway Preservation



Year	Network PCI
2014	74.3
2017*	75.4
2018*	76.3
2019*	77.0

\*PCI based on projected deterioration

## Roadway & Sidewalk Assets

Roadway and Sidewalk asset preservation management is a process of monitoring, maintaining, and preserving our roads and sidewalks effectively throughout their lifecycle. The goal is to employ effective decision making to optimize a cost effective mix of treatments, to maximize the number of roads and sidewalks treated to improve the networks as a whole.

## Assumptions

The following assumptions were used to produce this roadway and sidewalk preservation plan document:

- Base funding is maintained for 2018 and maintained for 2019.
- Treatment quantities developed are based on adjusted previous year close out reports. Treatment quantities and locations may vary once contract pricing is received or after construction is initiated.
- The unit rate cost estimates are based on but not limited to: contractor unit rates, project management, administration, traffic control, miscellaneous surface prep work, testing, and a contingencies.
- The attached document includes proposed treatments. Actual locations and quantities treated may vary prior to construction.
- Project locations identified on the Ward Maps are identified by funding year, in anticipation that projects get completed during said funding year. There may however, be locations still under construction or planned for construction within an existing previous year contract funded through previous year funding sources.
- Sidewalk preservation of severely damaged sidewalk panels and safety maintenance of lightly damaged sidewalk panels will be performed adjacent to the treated roadways.
- A lane-km, as referred to in this document, is the calculation of the current paved area divided by a lane width of 3.8 metres and then divided by 1000 metres per kilometre which results the Lane-km.
- Urban Highway Connector Program (UHCP) is an agreement between the City and Provincial government. This plan assumes UHCP funding is approved by the Province.
- Pavement Condition Index (PCI) is a condition of the road surface rated from 0 being worst condition, to 100 being in like new condition. This method of condition assessment is based on industry standard practice utilizing ASTM methods for assessments. Displayed on the treatment maps are a projection based on current condition and condition improvement based on treatment type applied to the road.

## 2017-2019 Projected Budgets

Program	2016 Budget (\$M)	2017* Budget (\$M)	2018* Budget (\$M)	2019* Budget (\$M)
Local Roadway Preservation	\$9.000	\$11.126	\$10.782	\$10.782
Collector Roadway Preservation	\$7.050	\$6.080	\$5.800	\$5.800
Arterial Roadway Preservation	\$5.300	\$5.900	\$5.600	\$5.600
Expressway Roadway Preservation	\$3.436	\$3.900	\$3.900	\$3.900
Neighbourhood Sidewalk Preservation	\$3.500	\$3.130	\$2.950	\$2.950
Primary Sidewalk Preservation	\$2.750	\$1.960	\$1.950	\$1.950
<b>Totals</b>	<b>\$31.036</b>	<b>\$32.096</b>	<b>\$30.982</b>	<b>\$30.982</b>

\*2017 budget includes a \$1.6 million one-time loan to be paid off in 5 years by the 2018-2022 Roadway & Sidewalk Budgets. This loan is going towards roadway & sidewalk treatments at CWWF locations. 2018 and 2019 budgets shown are projected budgets.

## 2017 Planned Treatments, Unit Rates & Quantities Preserved

Treatment	Unit Rate	Estimated Treatment Quantity
<b>*Sidewalk Preservation:</b>		
Curb Replacement	\$200-325 /lin.m.	9 500 m
Sidewalk Replacement	\$230-280 /lin.m.	19 400 m
Sidewalk Crack Filling	\$24-30 /lin.m.	17 600 m
Sidewalk Trip Ledge Cutting	\$34-40 /lin.m.	1 980 m
Sidewalk MG-Krete Surfacing	\$120-205 /lin.m.	2 010 m
<b>Road Preservation:</b>		
Crack Sealing	\$8-11 /lin.m.	40 000 m
Microsurface Seam Banding	\$12-14 /lin.m.	8 400 m
Microsurface Spot Patching	\$13-16 /m <sup>2</sup>	0.5 ln-km
Patching (Blade/Shallow/Deep)	\$25-140 /m <sup>2</sup>	8.6 ln-km
Microsurfacing	\$11-13 /m <sup>2</sup>	89.0 ln-km
Blade Level	\$17-20 /m <sup>2</sup>	4.5 ln-km
Overlays	\$19-30 /m <sup>2</sup>	12.7 ln-km
Resurfacing	\$40-45 /m <sup>2</sup>	96.2 ln-km
Reconstruction	\$70-190 /m <sup>2</sup>	18.5 ln-km
<b>2017 Total Projected Roadway Lane-Kilometres Treated:</b>		<b>230 ln-km</b>

\*Included in the sidewalk quantities is \$1.5 million worth of work outside the roadway preservation program to address the highest pedestrian potential locations worst condition sidewalk segments

## Roadway & Sidewalk Treatment Descriptions

**Crack Sealing** – Crack sealing is a rubberized asphaltic material that is used to seal transverse and longitudinal cracks, open longitudinal seams, and minor fatigue cracking. Crack sealing prevents moisture infiltration into the roadway structure to reduce the chance of premature structural failure and potholes.

**Microsurface Banding** - Microsurface banding is pro-active maintenance treatment utilized to address depressed transverse cracks, open seam/centerline cold joint failures, and localized rutting.

**Microsurface Spot Patching** -Microsurface spot patching is utilized to address and seal localized low fatigue cracking, ravelling, seal pot hole patching, and fill in depressions up to 38mm. The intent is to prevent water infiltration that would further deteriorate the roadway surface or structure and improve ride conditions where there were depressions.

**Spot Blade Level or Hotbox Patching** - Spot blade levelling or hotbox patching is aimed at restoring localized areas causing an effect on ride or drainage.

**Mill & Fill Patching** - Mill & Fill Patching utilizes a milling machine to remove localized deteriorated pavement to a depth of 60mm or greater to reach a competent asphalt base. The milled area is then tacked and paved in to the depth it was milled out.

**Shallow Patching** - Shallow patching is required when an area of failed or deteriorated asphalt needs to be milled off or removed to exposed stable existing granular substructure. The existing granular base is reshaped, compacted roll tested and new pavement is applied.

**Deep Patching** - Deep patching is required when an area of failed asphalt upon removal shows that the granular structure below the asphalt is not stable. The existing granular structure would be removed to a certain depth to accommodate a proper new structure. In some cases a sub drainage layer and/or geotextiles may need to be installed.

**Microsurfacing** - Microsurfacing is a surfacing treatment involving the placement of specified crushed graded aggregate with an asphalt emulsion. This treatment is placed on entire road surfaces that are structurally sound, with limited or no cracking, and with minimal surface imperfections. This treatment is typically used to address roadways with weathered or ravelled surfaces.

**Blade Level** - Blade levelling is placing a layer of hot mix asphalt with a motor grader and then compacted with steel and rubber tire rollers for entire road segment. Its primary purpose is to improve the roadway surface profile, which results in improved drainage and ride.

**Asphalt Overlays** - Asphalt overlays are asphalt pavement laid to a thickness of 10mm up to 40mm. They serve as preservation treatment to provide a high quality surface wearing course up to providing structural capacity. Typically this treatment is used on roads with minor surface imperfections and signs of raveling or weathering or the road requires additional structural capacity.

**Resurfacing** – Resurfacing uses a milling machine to remove a layer of existing deteriorated pavement surface as well as to restore the roadway profile prior to adding a new asphalt layer. This treatment replaces the deteriorated pavement surface and restores the road profile.

**Reconstruction** - Reconstruction is used when the entire section or localized sections of roadway have structurally failed or the asphalt pavement has deteriorated and is unable to support its intended loads. Reconstruction may involve the partial or complete removal and replacement of the asphalt, base and subbase and may involve the removal and/or strengthening of a portion of the subgrade Reconstruction treatments are categorized either as a “Reconstruction – Light” or “Reconstruction – Heavy”.

**Water/Sewer Coordinated Road Works** - Water and Sewer Road Restoration is used to restore the roadway outside the limits of the water/sewer work.

**Sidewalk Trip Ledge Cutting** - Trip ledge cutting uses a circular concrete saw or handheld grinder with diamond blade to remove concrete displacements (trip ledges) due to frost heaves or differential settlement. This method of removing trip hazards is a long term solution with cuts being smooth and at consistent specified slopes.

**Sidewalk Crack Filling** - Crack filling treatment is used to seal cracks resulting from expansion and contraction during the concrete curing process, temperature, or damage caused by other forces. Crack filling prevents moisture infiltration that may cause future deterioration of the sidewalk.

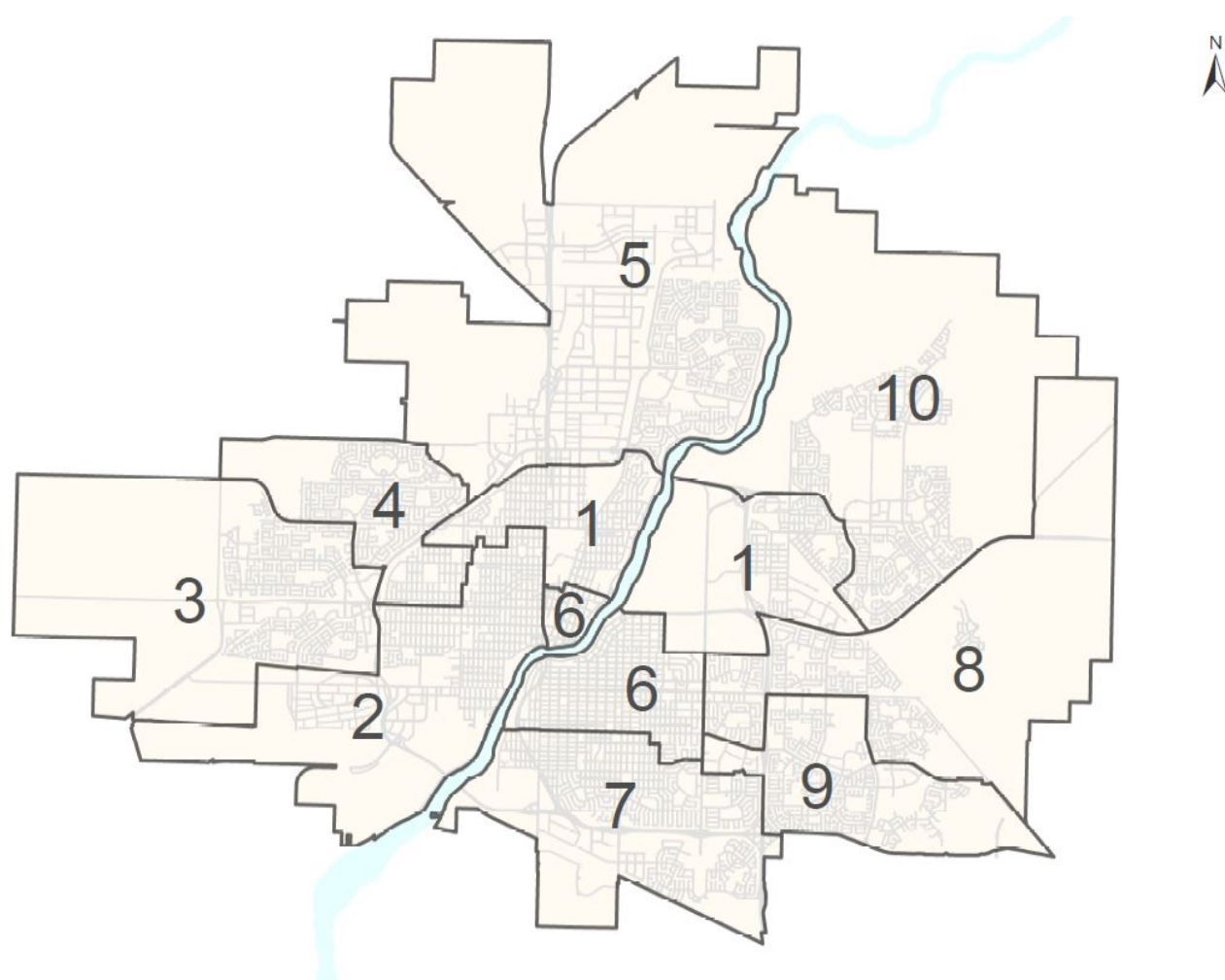
**Sidewalk MG-Krete Surfacing** - MG-Krete Surfacing is used on medium scaled sidewalk panels that have no cracks or distortions. MG-Krete is a two component, non-cementitious, high strength surfacing product.

**Sidewalk Panel and/or Curb Replacement** - Panel and/or curb replacement is the last option for sidewalk repair in order to ensure safe pedestrian traffic. If other treatment options are not achievable due to damage extent, safety, logistics, costs, or aesthetics, a sidewalk panel is to be replaced.



# Projected 2017-2019 Roadway & Sidewalk Preservation Plan

Project Locations by Ward & Expressways

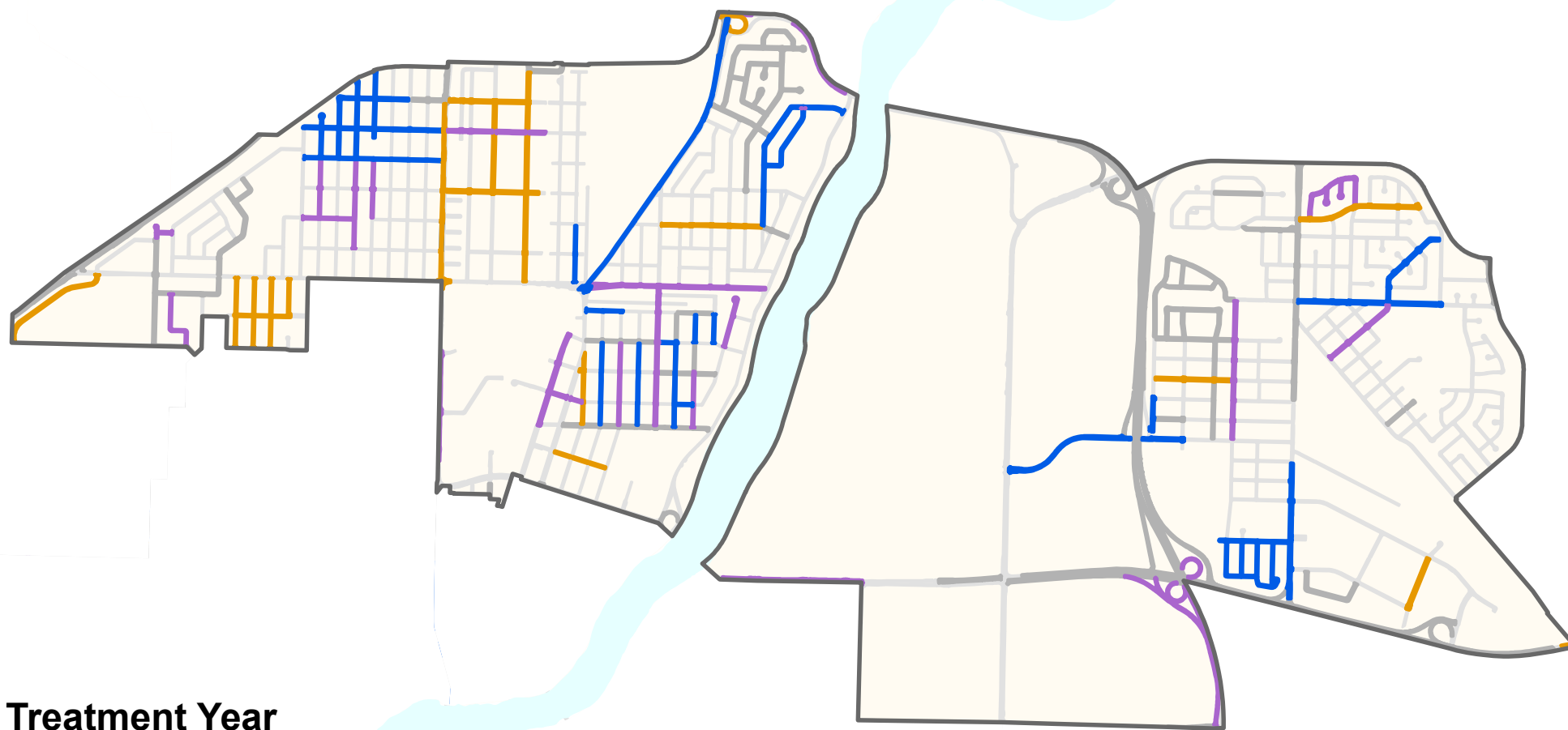


**BUILDING  
BETTER  
ROADS**  
SASKATOON'S ROAD PLAN

  
*City of*  
**Saskatoon**

# 2017-2019 Projected Roadway Preservation

## Ward 1



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	69.2	74.1
2017*	71.0	74.9
2018*	72.7	75.7
2019*	75.1	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads



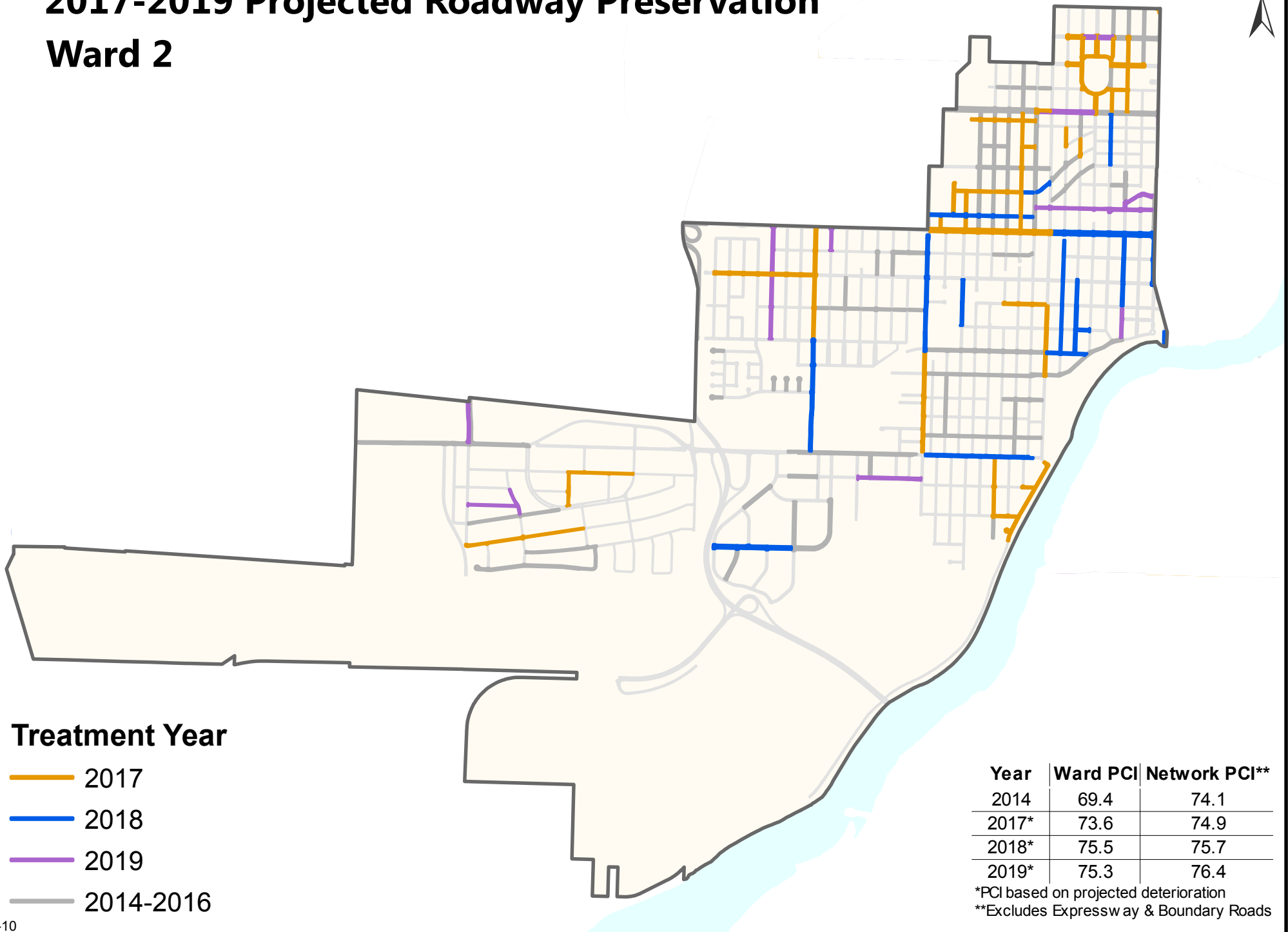
2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
111th St W	Lanyon Ave	Egbert Ave	Local	Road Preservation	Microsurface	1.5
26th St E	2nd Ave N	5th Ave N	Collector	Road Preservation	Resurface	0.7
32nd St W	Ave L N	Ave I N	Local	Road Preservation	Microsurface	0.8
36th St E	Idylwyld Dr N	Quebec Ave	Collector	Road Preservation	Resurface	1.6
36th St E	Quebec Ave	End	Local	Road Preservation	Resurface	0.2
39th St E	Idylwyld Dr N	Quebec Ave	Collector	Road Preservation	Resurface	1.7
3rd Ave N	Queen St	2nd Ave N	Collector	W&S Restoration	Resurface	1.1
Ave I N	32nd St W	33rd St W	Local	Road Preservation	Microsurface	0.5
Ave J N	31st St W	33rd St W	Local	Road Preservation	Microsurface	0.9
Ave K N	31st St W	33rd St W	Local	Road Preservation	Microsurface	0.9
Ave L N	31st St W	33rd St W	Local	Road Preservation	Microsurface	1.0
Balmoral St	7th Ave N	Prince of Wales Ave	Collector	Road Preservation	Resurface	1.8
Edmonton Ave	31st St W	33rd St W WB / 33rd St W EB	Collector	Road Preservation	Resurface	2.1
Idylwyld Dr N SB	39th St W	33rd St W	Major Arterial	W&S Restoration	Resurface	3.0
Ontario Ave	36th St E	39th St E	Collector	Road Preservation	Resurface	1.9
Packham Ave	103rd St E	105th St E / Packham Pl	Collector	Road Preservation	Resurface	1.3
Quebec Ave	33rd St E	40th St E	Major Arterial	Road Preservation	Resurface	4.3
Rossmo Rd	Reid Rd	Kellins Cres	Collector	Road Preservation	Resurface	2.4
2017 Totals						27.6

2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
9th Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
10th Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
102nd St W	O Neil Cres	Gardiner Ave	Local	Road Preservation	SUTO	0.4
104th St W	End	Central Ave	Local	Road Preservation	SUTO	1.2
108th St W	108th St W / Circle Dr Overpass	Bryans Ave	Arterial	Road Preservation	Resurface	0.9
108th St W	Preston Ave N	108th St W / Circle Dr Overpass	Arterial	Road Preservation	Microsurface	2.7
115th St E	Central Ave	Forest Dr	Collector	Road Preservation	Microsurface	3.4
2nd Ave N	33rd St E	35th St E	Local	W&S Restoration	Resurface	0.9
37th St W	Ave I N	Idylwyld Dr N	Local	Road Preservation	Microsurface	2.0
38th St W	Ave I N	Idylwyld Dr N	Collector	Road Preservation	Microsurface	2.6
39th St W	Ave G N	Ave C N	Local	Road Preservation	Microsurface	1.9
4th Ave N	Queen St	Duke St	Local	W&S Restoration	Resurface	1.1
6th Ave N	Queen St	Duke St	Local	W&S Restoration	Resurface	1.2
8th Ave N	Queen St	Duke St	Local	W&S Restoration	Resurface	1.2
Ave E N	Dead End South of 37th St W	Dead End North of 39th St W	Local	Road Preservation	Microsurface	1.0
Ave F N	37th St W	Dead End North of 39th St W	Local	Road Preservation	Microsurface	1.2
Ave G N	37th St W	39th St W	Local	Road Preservation	Microsurface	0.5
Ave H N	37th St W	Dead End North of 39th St W	Local	Road Preservation	Microsurface	0.7
Central Ave	College Dr	107th St W	Arterial	Road Preservation	Resurface	3.1
Duke St	7th Ave N	8th Ave N	Local	W&S Restoration	Resurface	0.2
Egbert Ave	102nd St W	104th St W	Local	Road Preservation	SUTO	0.5
Empire Ave	Prince of Wales Ave	Prince of Wales Ave	Local	Road Preservation	Microsurface	1.3
Gardiner Ave	102nd St W	104th St W	Local	Road Preservation	SUTO	0.5
King St	8th Ave N	9th Ave N	Local	W&S Restoration	Resurface	0.2
Lanyon Ave	108th St W / Circle Dr NE Ramp NB	110th St W	Local	Road Preservation	Reconstruction	0.7
O Neil Cres	102nd St W	O Neil Cres	Local	Road Preservation	SUTO	1.6
Prince of Wales Ave	Balmoral St	Empire Ave	Collector	Road Preservation	Microsurface	2.1
Prince of Wales Ave	Empire Ave	Spadina Cres E	Collector	Road Preservation	Resurface	1.1
Warman Rd SB	Warman Rd / Circle Dr Overpass SB	33rd St E	Arterial	Road Preservation	Resurface	4.6
2018 Totals						39.4

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
1st Ave N	Queen St	Duke St	Local	Road Preservation	Resurface	2.2
33rd St E Lay By	33rd St E	33rd St E WB	Local	Road Preservation	Resurface	0.1
33rd St E	5th Ave N	Spadina Cr	Arterial	Road Preservation	Resurface	2.8
33rd St E EB	3rd Ave N / Warman Rd	5th Ave N	Arterial	Road Preservation	Resurface	0.3
33rd St E WB	5th Ave N	3rd Ave N / Warman Rd	Arterial	Road Preservation	Resurface	0.4
35th St W	Ave I N	Ave F N	Local	Road Preservation	Microsurface	0.7
38th St E	Idylwyld Dr N	Rail	Local	Road Preservation	Resurface	1.9
5th Ave N	Queen St	Duke St	Local	W&S Restoration	Resurface	1.1
7th Ave N	Queen St	33rd St E	Collector	W&S Restoration	Resurface	2.8
9th Ave N	Queen St	Princess St	Local	W&S Restoration	Resurface	0.8
Ave E N	35th St W	37th St W	Local	Road Preservation	Microsurface	0.8
Ave F N	34th St W	37th St W	Local	Road Preservation	Microsurface	1.2
Ave H N	35th St W	37th St W	Local	Road Preservation	Microsurface	0.8
Ave P N	Edmonton Ave	Dead End North of Bowerman St	Local	Road Preservation	Resurface	0.3
Bowerman St	Ave P N	Howell Ave	Local	Road Preservation	Reconstruction	0.2
College Dr EB	Clarence Ave N	Cumberland Ave N	Arterial	Road Preservation	Microsurface	2.6
College Dr WB	Cumberland Ave N	Clarence Ave N	Arterial	Road Preservation	Microsurface	2.7
Delaysen Cres	Rossmo Rd	Rossmo Rd	Local	Road Preservation	UTO	1.7
Delaysen Crt	End of Cul-De-Sac	Delaysen Cres	Local	Road Preservation	UTO	0.3
Delaysen Pl	End of Cul-De-Sac	Delaysen Cres	Local	Road Preservation	UTO	0.3
Duchess St	3rd Ave N / Warman Rd	5th Ave N	Collector	Road Preservation	Reconstruction	0.5
Duke St	8th Ave N	10th Ave N	Local	Road Preservation	SUTO	0.6
Dunlop St	Gray Ave	115th St E	Collector	Road Preservation	Resurface	1.5
Egbert Ave	108th St W	115th St W	Collector	Road Preservation	Resurface	2.6
Idylwyld Dr N NB	25th St E	31st St W / 31st St E	Arterial	Road Preservation	Resurface	1.4
King Cres	Duke St	Dead End North of Duchess St	Local	Road Preservation	Reconstruction	0.9
King St	1st Ave N	3rd Ave N	Local	Road Preservation	Resurface	0.5
Spruce Dr	115th St E	Forest Dr / Rossmo Rd	Local	Road Preservation	Resurface	1.9
Tiffin Cres	31st St W	Faulkner Cres	Local	Road Preservation	Reconstruction	0.9
2019 Totals						34.9

	Lane-Km
2017	27.6
2018	39.4
2019	34.9
2017-2019 Totals	101.9

# 2017-2019 Projected Roadway Preservation Ward 2



Year	Ward PCI	Network PCI**
2014	69.4	74.1
2017*	73.6	74.9
2018*	75.5	75.7
2019*	75.3	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
19th St W	Ave K S	Ave H S	Local	Road Preservation	Resurface	1.0
20th St W	Vancouver Ave S	Ave W S	Collector	Road Preservation	Resurface	2.7
30th St W	Ave D N	Ave C N	Local	W&S Restoration	Reconstruction	0.3
30th St W	Ave E N	Ave D N	Local	W&S Restoration	Resurface	0.2
30th St W	Ave F N	Ave E N	Local	W&S Restoration	Resurface	0.3
31st St W	Ave E N	Ave D N	Local	W&S Restoration	Resurface	0.2
31st St W	Ave F N	Ave E N	Local	W&S Restoration	Resurface	0.4
31st St W EB	Ave D N	Ave B N	Local	W&S Restoration	Resurface	0.4
31st St W EB	Ave G N	Ave F N	Local	W&S Restoration	Reconstruction	0.2
31st St W WB	Ave B N	Ave D N	Local	W&S Restoration	Resurface	0.5
31st St W WB	Ave F N	Ave G N	Local	W&S Restoration	Reconstruction	0.2
32nd St W EB	Ave G N	Ave F N	Local	W&S Restoration	Resurface	0.2
32nd St W WB	Ave F N	Ave G N	Local	W&S Restoration	Reconstruction	0.3
Ave C N	29th St W	30th St W	Local	W&S Restoration	Resurface	0.4
Ave C N	30th St W	31st St W	Local	W&S Restoration	Resurface	0.4
Ave C N	31st St W	32nd St W	Local	W&S Restoration	Reconstruction	0.6
Ave D N	29th St W	30th St W	Local	W&S Restoration	Resurface	0.5
Ave D N	31st St W	32nd St W	Local	W&S Restoration	Reconstruction	0.5
Ave E N	29th St W	30th St W	Local	W&S Restoration	Resurface	0.7
Ave E N NB	31st St W	32nd St W	Local	W&S Restoration	Reconstruction	0.3
Ave E N SB	32nd St W	31st St W	Local	W&S Restoration	Reconstruction	0.3
Ave F N	30th St W	32nd St W	Local	W&S Restoration	Resurface	1.3
Ave F N	Bedford Rd	Rusholme Rd	Local	W&S Restoration	Resurface	0.3
Ave G N	Rusholme Rd	28th St W	Local	W&S Restoration	Resurface	0.3
Ave H S	16th St W	19th St W	Arterial	W&S Restoration	Resurface	1.8
Ave K S	Schuyler St	11th St W	Local	W&S Restoration	Reconstruction	1.1
Ave P S	11th St W	17th St W	Arterial	Road Preservation	Resurface	2.8
Ave W S	18th St W	22nd St W	Arterial	Road Preservation	Resurface	2.8
Caen St	Rockingham Ave	Lancaster Blvd	Collector	Road Preservation	Reconstruction	0.8
Dieppe St	Elevator Rd	Haida Ave	Collector	Road Preservation	Reconstruction	0.9
Dieppe St	Haida Ave	Crerar Dr	Collector	Road Preservation	Reconstruction	0.7
Dudley St	Ave I S	Spadina Cres W	Local	W&S Restoration	Resurface	0.2
Rockingham Ave	Crescent Blvd / Ortona St	Caen St	Local	Road Preservation	Reconstruction	0.5
Schuyler St	Ave K S	Spadina Cres W	Collector	W&S Restoration	Resurface	0.4
Spadina Cres W	South of Spadina Cres	11th St W	Collector	Road Preservation	Resurface	1.8
Spadina Cres W	Spadina Cres W	End	Local	W&S Restoration	Resurface	0.1
2017 Totals						26.4

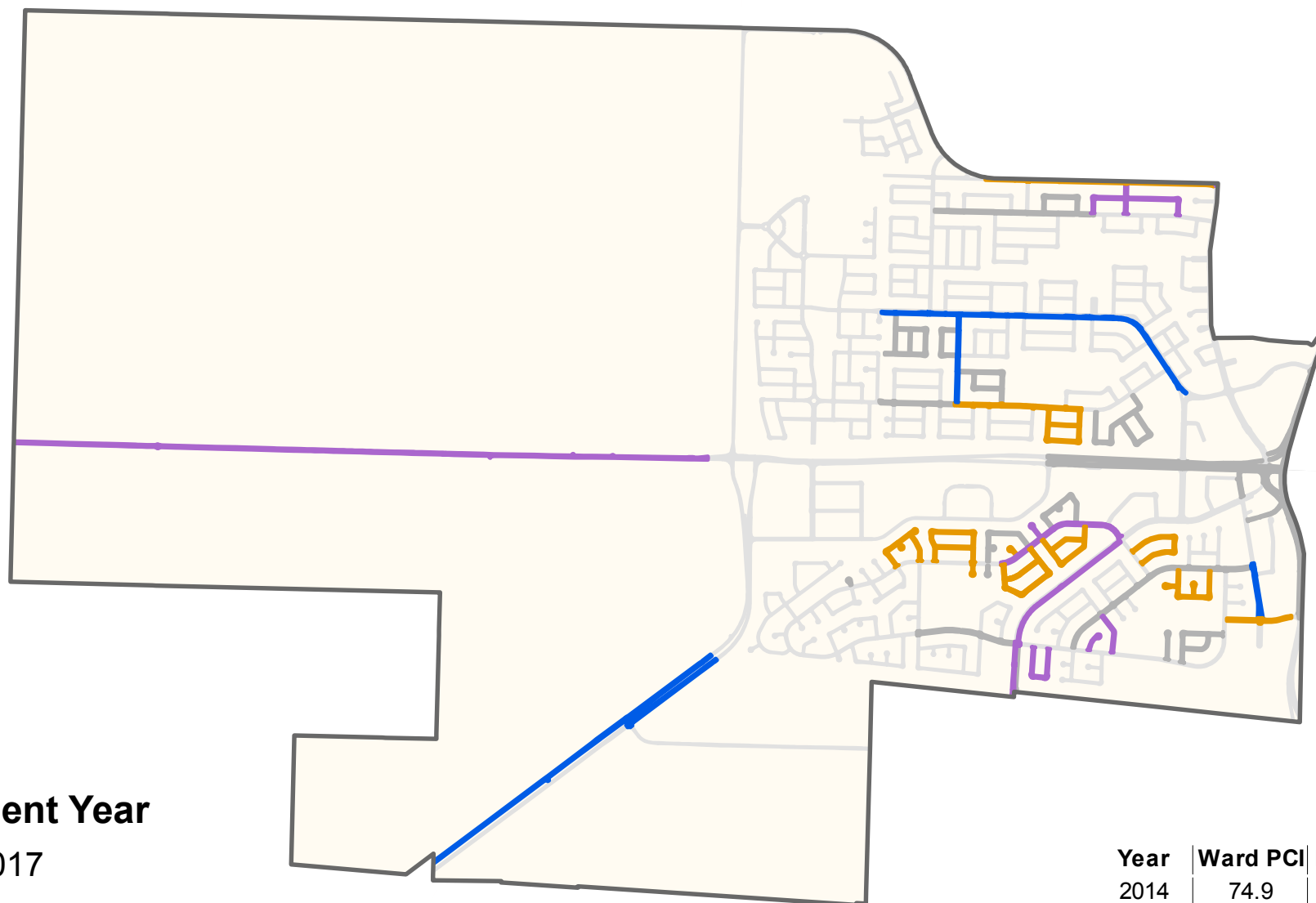
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
11th St W	Ave P S	Ave H S / Spadina Cres W	Arterial	Road Preservation	Resurface	3.0
17th St W	Ave H S	Ave E S	Collector	Road Preservation	Resurface	0.9
18th St W	Ave F S	Ave E S	Local	W&S Restoration	Resurface	0.3
22nd St W EB	Ave H N / Ave H S	Idylwyld Dr N / Idylwyld Dr S	Arterial	Road Preservation	Microsurface	2.4
22nd St W WB	Idylwyld Dr N / Idylwyld Dr S	Ave H N / Ave H S	Arterial	Road Preservation	Microsurface	2.4
23rd St W	Ave P N	Ave I N	Local	W&S Restoration	Resurface	2.1
Ave C S	19th St W	22nd St W	Local	Road Preservation	Resurface	1.8
Ave D N	25th St W	29th St W	Local	Road Preservation	Microsurface	0.9
Ave F S	17th St W	20th St W	Local	W&S Restoration	Resurface	1.9
Ave G S	17th St W	Dead End North of 21st St W	Local	W&S Restoration	Resurface	2.0
Ave N S	18th St W	Rail North of 18th St W	Local	Road Preservation	Structural Overlay	0.5
Ave N S	Rail North of 18th St W	20th St W	Local	Road Preservation	Resurface	0.6
Ave P S	17th St W	Rail North of 17th St W	Arterial	Road Preservation	Structural Overlay	0.5
Ave P S	Rail North of 17th St W	20th St W	Arterial	Road Preservation	Resurface	1.4
Ave W S	11th St W	18th St W	Arterial	Road Preservation	Resurface	3.2
Bedford Rd	Ave J N	Ave H N	Local	Road Preservation	Reconstruction	0.5
Fletcher Rd EB	Malouf Rd / Dudley St	Malouf Rd / Buckle Ave	Collector	Road Preservation	Resurface	1.4
Fletcher Rd WB	Malouf Rd / Buckle Ave	Malouf Rd / Dudley St	Collector	Road Preservation	Resurface	1.4
2018 Totals						27.0

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
23rd St W	Ave I N	Idylwyld Dr N	Local	Road Preservation	Resurface	2.4
29th St W EB	Ave I N	Ave E N	Collector	Road Preservation	Microsurface	0.8
29th St W WB	Ave E N	Ave G N	Collector	Road Preservation	Resurface	0.4
29th St W WB	Ave G N	Ave H N	Collector	Road Preservation	Microsurface	0.2
32nd St W EB	Ave F N	Ave D N	Local	Road Preservation	Microsurface	0.4
32nd St W WB	Ave D N	Ave F N	Local	Road Preservation	Microsurface	0.4
Ave C N	23rd St W	Ave B N	Local	Road Preservation	Resurface	0.5
Ave C S	Spadina Cres W	19th St W	Collector	Road Preservation	Resurface	0.7
Ave V S	21st St W	22nd St W EB	Local	Road Preservation	Resurface	0.4
Dudley St	Ave U S	Ave P S	Local	Road Preservation	Structural Overlay	1.3
Fairlight Dr SB	Intersection North of Tracks	11th St W	Arterial	Road Preservation	Resurface	0.9
Haida Ave	Ortona St	Arnhem St	Local	Road Preservation	Reconstruction	0.4
Jamieson St	Ave B N	Idylwyld Dr N	Collector	Road Preservation	Resurface	0.3
Normandy St	Elevator Rd	Haida Ave	Local	Road Preservation	Reconstruction	0.7
Witney Ave S	18th St W	22nd St W	Collector	Road Preservation	Resurface	2.6
2019 Totals						12.5

	Lane-Km
2017	26.4
2018	27.0
2019	12.5
2017-2019 Totals	65.9

# 2017-2019 Projected Roadway Preservation

## Ward 3



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	74.9	74.1
2017*	77.4	74.9
2018*	77.2	75.7
2019*	77.0	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
33rd St W EB	33rd St W (3800blk Odd)	Confederation Dr / Wedge Rd	Arterial	Road Preservation	Resurface	3.5
Centennial Dr	Lisgar Ave	Tache Cres	Collector	Road Preservation	Resurface	2.7
Clancy Dr	Pendygrasse Rd	Circle Dr	Collector	Road Preservation	Resurface	1.4
Fairburn Crt	End	McCormack Rd	Local	Road Preservation	SUTO	0.2
Galbraith Cres	Olmstead Rd	Olmstead Rd	Local	Road Preservation	Microsurface	1.7
Gooding Pl	End	McCormack Rd	Local	Road Preservation	Microsurface	0.2
Hull Cres	Forrester Rd	Forrester Rd	Local	Road Preservation	UTO	1.5
Hull Crt	Hull Cres	End	Local	Road Preservation	Microsurface	0.3
Hull Pl	End	Hull Cres	Local	Road Preservation	Microsurface	0.3
Neatby Cres	McCormack Rd	McCormack Rd	Local	Road Preservation	UTO	1.4
Neatby Cres	Neatby Cres	End	Local	Road Preservation	UTO	0.1
Neatby Pl	End	Neatby Cres	Local	Road Preservation	UTO	0.2
Needham Cres	McCormack Rd	McCormack Rd	Local	Road Preservation	UTO	1.8
Needham Way	Needham Cres	Needham Cres	Local	Road Preservation	UTO	0.6
Poth Cres	McCormack Rd	McCormack Rd	Local	Road Preservation	Microsurface	1.4
Poth Way	Poth Cres	Poth Cres	Local	Road Preservation	Microsurface	0.6
Streb Cres	McCormack Rd	McCormack Rd	Local	Road Preservation	Microsurface	2.0
Streb Way	Streb Cres	Streb Cres	Local	Road Preservation	Microsurface	0.6
Tache Cres	Centennial Dr	Centennial Dr	Local	Road Preservation	Microsurface	1.7
Tache Cres	Tache Cres	Tache Cres	Local	Road Preservation	Microsurface	0.4
2017 Totals						22.8

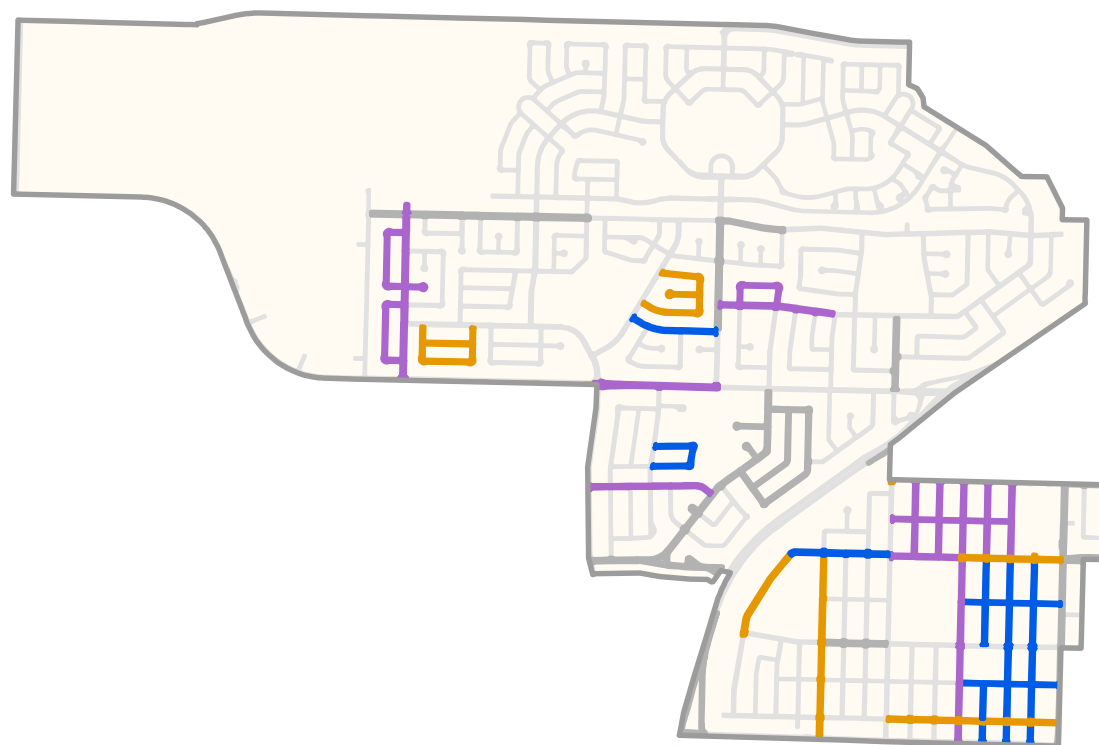
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Diefenbaker Dr EB	Steeves Ave	Diefenbaker Dr / Laurier Dr	Arterial	Road Preservation	Microsurface	5.3
Diggie Pl	Pendygrasse Rd	End of Cul-De-Sac	Local	Road Preservation	UTO	0.4
Fairmont Dr	Clancy Dr	Forrester Rd	Collector	Road Preservation	Resurface	1.4
Lisgar Ave	Centennial Dr	Diefenbaker Dr	Collector	Road Preservation	Microsurface	1.8
Lochrie Cres	Pendygrasse Rd	Pendygrasse Rd	Local	Road Preservation	UTO	1.3
Peeling Ave	Pendygrasse Rd	Forrester Rd	Local	Road Preservation	UTO	0.7
2018 Totals						10.8

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Blue Pl	McCormack Rd	End of Cul-De-Sac	Local	Road Preservation	UTO	0.3
Cartier Cres	John A MacDonald Rd	John A MacDonald Rd	Local	Road Preservation	Microsurface	2.0
Diefenbaker Dr EB	Diefenbaker Terr	Steeves Ave	Collector	Road Preservation	Microsurface	0.8
Fairlight Dr EB	McCormack Rd / Pendygrasse Rd	McCormack Rd / Olmstead Rd	Arterial	Road Preservation	Resurface	2.5
Fairlight Dr SB	McCormack Rd / Pendygrasse Rd	Intersection N of Tracks	Arterial	Road Preservation	Resurface	0.9
McCormack Rd	Postnikoff Cres	Fairlight Dr	Collector	Road Preservation	Resurface	1.1
McCormack Rd	Streb Cres	Postnikoff Cres	Collector	Road Preservation	UTO	2.0
Tilley Ave	John A MacDonald Rd	33rd St W	Local	Road Preservation	Microsurface	0.6
2019 Totals						10.2

	Lane-Km
2017	22.8
2018	10.8
2019	10.2
2017-2019 Totals	43.7

# 2017-2019 Projected Roadway Preservation

## Ward 4



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	74.1	74.1
2017*	74.1	74.9
2018*	74.2	75.7
2019*	75.7	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
22nd St W EB	Ave P N / Ave P S	Ave H N / Ave H S	Arterial	W&S Restoration	Resurface	3.0
22nd St W WB	Ave H N / Ave H S	Ave P N / Ave P S	Arterial	Road Preservation	Microsurface	2.7
23rd St W	Ave W N	Ave P N	Local	Road Preservation	Resurface	2.6
27th St W	Ave J N	Ave I N	Local	Road Preservation	Microsurface	0.2
28th St W	End	Ave I N	Local	Road Preservation	Microsurface	1.1
29th St W	Ave T N	Ave P N	Collector	Road Preservation	Microsurface	1.6
29th St W WB	Ave H N	Ave I N	Collector	W&S Restoration	Resurface	0.3
Ave J N	22nd St W WB	23rd St W	Local	Road Preservation	Microsurface	0.2
Ave J N	23rd St W	28th St W	Local	W&S Restoration	Reconstruction	1.6
Ave J N	28th St W	29th St W EB	Local	Road Preservation	Microsurface	0.1
Ave N N	22nd St W WB	Bedford Rd	Local	Road Preservation	Microsurface	0.7
Ave O N	22nd St W WB	23rd St W	Local	Road Preservation	Microsurface	0.2
Bedford Rd	McMillan Ave	Ave J N	Local	Road Preservation	Microsurface	1.2
Kirkpatrick Cres	George Rd	George Rd	Local	Road Preservation	Microsurface	1.9
Kirkpatrick Crt	End	Kirkpatrick Cres	Local	Road Preservation	Microsurface	0.5
Manning Cres	Wedge Rd	Wedge Rd	Local	Road Preservation	Microsurface	1.7
Manning Lane	Manning Cres	Manning Cres	Local	Road Preservation	Microsurface	0.6
McMillan Ave	23rd St W	Parking Lot North of Bedford Rd	Local	Road Preservation	Microsurface	0.8
Vancouver Ave N	Rusholme Rd	29th St W	Local	Road Preservation	Reconstruction	1.6
Witney Ave N	22nd St W	29th St W	Collector	Road Preservation	Resurface	2.8
2017 Totals						25.4

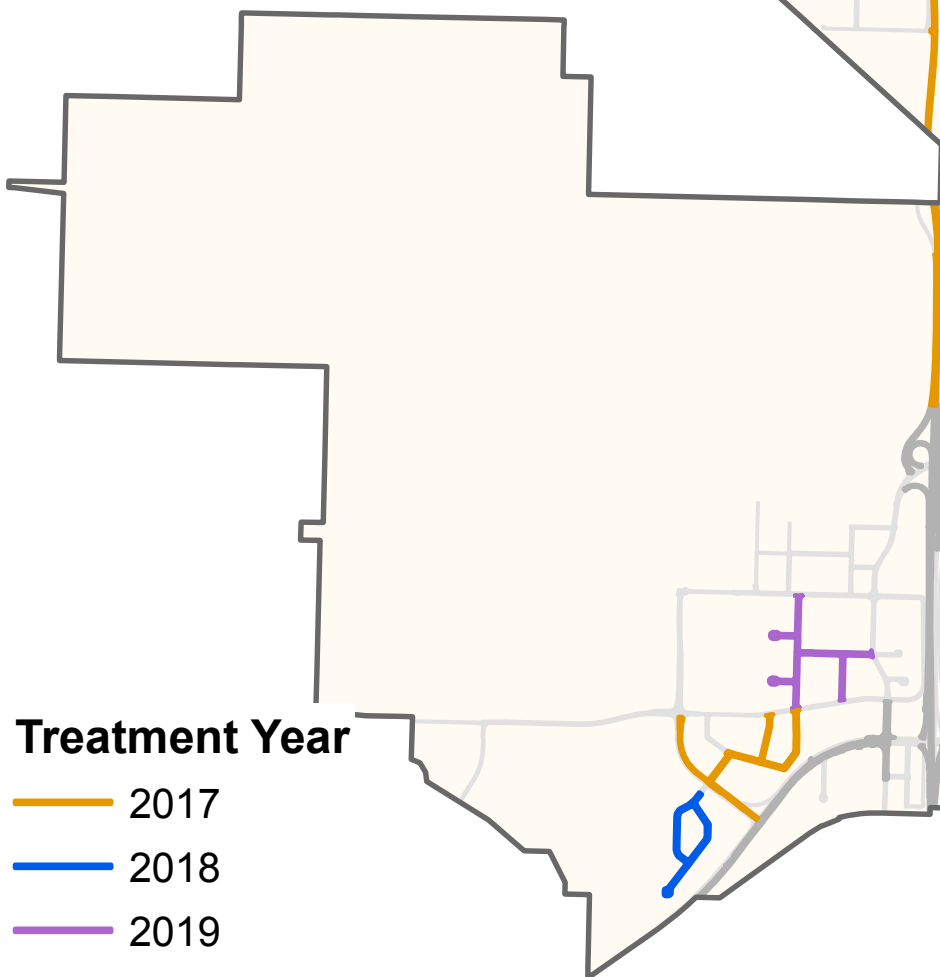
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
29th St W	Vancouver Ave N	Ave W N	Collector	Road Preservation	Resurface	1.7
Ave Q N	22nd St W WB	29th St W	Local	Road Preservation	Microsurface	2.5
Ave R N	22nd St W WB	29th St W	Local	Road Preservation	Microsurface	2.5
Ave S N	22nd St W WB	29th St W	Local	Road Preservation	Microsurface	2.0
Bedford Rd	Ave T N	Ave P N	Local	Road Preservation	Microsurface	1.1
Makaroff Rd	George Rd	Junor Ave	Local	Road Preservation	Microsurface	1.3
Maxwell Cres	Matheson Dr	Matheson Dr	Local	Road Preservation	UTO	1.4
Rylston Rd	Ave T N	Ave P N	Local	Road Preservation	Microsurface	1.1
2018 Totals						13.6

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
29th St W	Ave W N	Ave T N	Collector	Road Preservation	Resurface	1.1
30th St W	Ave W N	Ave R N	Local	Road Preservation	Reconstruction	1.4
33rd St W	Confederation Dr / Wedge Rd	Junor Ave	Arterial	Road Preservation	Resurface	3.0
Ave R N	29th St W	31st St W	Local	Road Preservation	Microsurface	1.1
Ave S N	29th St W	31st St W	Local	Road Preservation	Microsurface	1.0
Ave T N	22nd St W	31st St W	Local	Road Preservation	Microsurface	3.7
Ave V N	29th St W	31st St W	Local	Road Preservation	Microsurface	1.0
Latrace Rd	33rd St W	37th St W	Collector	Road Preservation	Microsurface	3.1
Latrace Rd	37th St W	Dead End North of 37th St W	Collector	Road Preservation	Microsurface	0.1
Lewis Cres	Richardson Rd	Richardson Rd	Local	Road Preservation	SUTO	1.0
Massey Dr	Confederation Dr	Northumberland Ave	Collector	Road Preservation	Microsurface	1.9
Murray Pl	Latrace Rd	End	Local	Road Preservation	Microsurface	0.3
Richardson Rd	Mendel Cres	Ave Y N	Collector	Road Preservation	SUTO	2.4
Robinson Cres	Latrace Rd	Latrace Rd	Local	Road Preservation	UTO	1.3
2019 Totals						22.4

	Lane-Km
2017	25.4
2018	13.6
2019	22.4
2017-2019 Totals	61.4

# 2017-2019 Projected Roadway Preservation

## Ward 5



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	76.8	74.1
2017*	78.3	74.9
2018*	78.0	75.7
2019*	77.7	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads



2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
60th St E	Miners Ave	Millar Ave	Collector	Road Preservation	Resurface	3.0
Airport Dr NB	Circle Dr	Claypool Dr / Cynthia St	Arterial	Road Preservation	Resurface	1.9
Albany Cres	St Lawrence Cres	Assiniboine Dr	Local	Road Preservation	Reconstruction	1.2
Ball Cres	Silverwood Rd	Silverwood Rd	Local	Road Preservation	Microsurface	2.3
Ball Crt	Ball Cres	End	Local	Road Preservation	Microsurface	0.3
Ball Pl	End	Ball Cres	Local	Road Preservation	Microsurface	0.3
Ball Way	Ball Cres	Ball Cres	Local	Road Preservation	Microsurface	0.7
Dore Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	Microsurface	2.0
Dore Way	Dore Cres	Dore Cres	Local	Road Preservation	Microsurface	0.6
Frobisher Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	Microsurface	1.9
Frobisher Crt	End	Frobisher Cres	Local	Road Preservation	Microsurface	0.3
Frobisher Pl	End	Frobisher Cres	Local	Road Preservation	Microsurface	0.2
Frobisher Terr	End	Frobisher Cres	Local	Road Preservation	Microsurface	0.4
Marquis Dr W EB	Highway 16	Thatcher Ave	Arterial	Road Preservation	Resurface	2.5
Marquis Dr W WB	Thatcher Ave	Highway 16	Arterial	Road Preservation	Resurface	2.4
Robin Cres	Airport Dr	Robin Way	Local	Road Preservation	Reconstruction	2.8
Robin Way	Robin Cres	Cynthia St	Local	Road Preservation	Resurface	0.8
Sturgeon Dr	Assiniboine Dr	Assiniboine Dr	Local	Road Preservation	Microsurface	2.3
Sturgeon Pl	Sturgeon Dr	End	Local	Road Preservation	Microsurface	0.4
Sturgeon Terr	Sturgeon Dr	End	Local	Road Preservation	Microsurface	0.5
Thatcher Ave	60th St W	Marquis Dr W	Collector	Road Preservation	Resurface	2.0
2017 Totals						28.7

2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
60th St E	Millar Ave	Dead End East of Tubby Cr	Local	Road Preservation	Resurface	1.8
Albany Cres	St Lawrence Cres	St Lawrence Cres	Local	Road Preservation	Reconstruction	0.9
Athabasca Cres	Assiniboine Dr	Assiniboine Dr	Local	Road Preservation	Microsurface	0.9
Cardinal Cres	Airport Dr SB	Cardinal Cres	Local	Road Preservation	Resurface	2.9
Cardinal Pl	End of Cul-De-Sac	Cardinal Cres	Local	Road Preservation	Resurface	0.8
Kootenay Dr	St Lawrence Cres	Assiniboine Dr	Local	Road Preservation	Reconstruction	1.0
La Ronge Rd	Nahanni Dr	Saguenay Dr	Collector	Road Preservation	Microsurface	1.2
La Ronge Rd	Pinehouse Dr	Nahanni Dr	Collector	Road Preservation	Resurface	1.8
Miners Ave	56th St E	60th St E	Collector	Road Preservation	Resurface	3.3
Pembina Ave	Columbia Dr	Red River Rd	Local	Road Preservation	Reconstruction	0.2
Pembina Ave	Spadina Cres E	Columbia Dr	Local	Road Preservation	Resurface	1.9
St Lawrence Cres	Assiniboine Dr	Assiniboine Dr	Local	Road Preservation	Microsurface	1.7
Tobin Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	UTO	2.8
Tobin Crt	End of Cul-De-Sac	Tobin Cres	Local	Road Preservation	UTO	0.3
Tobin Pl	Tobin Cres	End of Cul-De-Sac	Local	Road Preservation	UTO	0.2
Tobin Terr	End of Cul-De-Sac	Tobin Way	Local	Road Preservation	UTO	0.4
Tobin Way	Tobin Cres	Tobin Cres	Local	Road Preservation	UTO	0.7
2018 Totals						22.9

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Cochin Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	UTO	1.8
Cochin Pl	Cochin Way	End of Cul-De-Sac	Local	Road Preservation	UTO	0.1
Cochin Terr	Cochin Cres	End of Cul-De-Sac	Local	Road Preservation	UTO	0.2
Cochin Way	Cochin Cres	Cochin Cres	Local	Road Preservation	UTO	0.6
David Knight Cres	Meilicke Rd	Meilicke Rd	Local	Road Preservation	Microsurface	2.6
David Knight Lane	David Knight Cres	David Knight Cres	Local	Road Preservation	Microsurface	0.8
David Knight Way	David Knight Cres	David Knight Cres	Local	Road Preservation	Microsurface	0.9
Goerzen St	Wanuskewin Rd	Russell Rd	Collector	Road Preservation	UTO	2.0
Hanselman Ave	Cynthia St	45th St W	Collector	Road Preservation	Microsurface	1.9
Hanselman Crt	End of Cul-De-Sac	Hanselman Ave	Local	Road Preservation	Microsurface	0.5
Hanselman Pl	End of Cul-De-Sac	Hanselman Ave	Local	Road Preservation	Microsurface	0.5
Haskamp St	Hanselman Ave	Ave C N	Local	Road Preservation	Microsurface	1.2
JJ Thiessen Cres	Meilicke Rd	Silverwood Rd	Local	Road Preservation	Microsurface	1.7
JJ Thiessen Terr	JJ Thiessen Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
JJ Thiessen Way	JJ Thiessen Cres	JJ Thiessen Cres	Local	Road Preservation	Microsurface	0.6
Neepawa St	Thatcher Ave	Wakooma St	Local	Road Preservation	Microsurface	1.8
Nokimos Bay	Nokomis Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.1
Nokomis Cres	Lenore Dr	La Loche Rd	Local	Road Preservation	Microsurface	1.0
Nokomis Pl	Nokomis Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Pembina Pl	End of Cul-De-Sac	Pembina Ave	Local	Road Preservation	Microsurface	0.3
Primrose Dr	Warman Rd	Cree Cres	Arterial	Road Preservation	Resurface	3.2
Red Deer Rd	Pembina Ave	Columbia Dr	Local	Road Preservation	Microsurface	0.8
Souris Crt	Red Deer Rd	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
St Lawrence Cres	St Lawrence Crt	Churchill Dr	Local	Road Preservation	Resurface	1.5
Thatcher Ave	Marquis Dr W	71st St W	Collector	Road Preservation	Resurface	3.6
Turtle Cres	Redberry Rd	Redberry Rd	Local	Road Preservation	UTO	1.0
Turtle Crt	End of Cul-De-Sac	Turtle Cres	Local	Road Preservation	UTO	0.2
Turtle Pl	Turtle Cres	End of Cul-De-Sac	Local	Road Preservation	UTO	0.2
Wakooma St	Thatcher Ave	Neepawa St	Local	Road Preservation	Microsurface	2.4
2019 Totals						32.3

	Lane-Km
2017	28.7
2018	22.9
2019	32.3
2017-2019 Totals	83.9

# 2017-2019 Projected Roadway Preservation

## Ward 6



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	69.7	74.1
2017*	72.1	74.9
2018*	73.0	75.7
2019*	75.6	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
10th St E	Dufferin Ave	Albert Ave	Local	Road Preservation	Microsurface	0.8
10th St E	Melrose Ave	Broadway Ave	Local	W&S Restoration	Resurface	1.5
11th St E	Albert Ave	Clarence Ave S	Local	Road Preservation	Microsurface	0.3
11th St E	Victoria Ave	Eastlake Ave	Collector	Road Preservation	Microsurface	0.4
13th St E	Clarence Ave S	Wiggins Ave S	Local	Road Preservation	Microsurface	1.2
14th St E	Clarence Ave S	Wiggins Ave S	Local	Road Preservation	Microsurface	1.8
22nd St E	3rd Ave N / 3rd Ave S	5th Ave N	Arterial	Road Preservation	Resurface	1.0
3rd St E	Melrose Ave	Victoria Ave	Local	W&S Restoration	Resurface	0.4
4th St E	McPherson Ave	Victoria Ave	Local	W&S Restoration	Resurface	0.9
5th St E	Lorne Ave	Melrose Ave	Local	W&S Restoration	Resurface	0.9
6th St E	Lorne Ave	Melrose Ave	Local	W&S Restoration	Resurface	0.8
8th St W	Saskatchewan Cres W	Lorne Ave	Collector	Road Preservation	Resurface	0.8
9th St E	Broadway Ave	Clarence Ave S	Local	Road Preservation	Microsurface	1.5
Albert Ave NB & SB	12th St E	14th St E	Local	Road Preservation	Microsurface	0.8
Albert Ave NB & SB	8th St E WB	10th St E	Local	Road Preservation	Microsurface	1.2
Arthur Ave	14th St E	15th St E	Local	Road Preservation	Reconstruction	0.2
Dufferin Ave NB	8th St E	12th St E	Local	Road Preservation	Microsurface	1.1
Dufferin Ave SB	12th St E	8th St E	Local	Road Preservation	Microsurface	1.3
Hugo Ave	14th St E	15th St E	Local	Road Preservation	Microsurface	0.2
Lansdowne Ave NB	8th St E	9th St E	Local	Road Preservation	Microsurface	0.2
Lansdowne Ave SB	12th St E	10th St E	Local	Road Preservation	Microsurface	0.4
Lansdowne Ave SB	9th St E	8th St E	Local	Road Preservation	Microsurface	0.2
McKinnon Ave S	12th St E	15th St E	Local	Road Preservation	Microsurface	0.8
Melrose Ave SB	7th St E	5th St E	Local	W&S Restoration	Resurface	0.4
Munroe Ave S	12th St E	15th St E	Local	Road Preservation	Microsurface	0.7
Taylor St E	Lorne Ave	Victoria Ave	Arterial	W&S Restoration	Resurface	2.0
Victoria Ave NB	8th St E	11th St E	Collector	W&S Restoration	Resurface	0.9
Victoria Ave SB	11th St E	8th St E	Collector	W&S Restoration	Resurface	1.3
Wiggins Ave N/S	12th St E	College Dr	Collector	Road Preservation	Resurface	2.9
2017 Totals						27.0

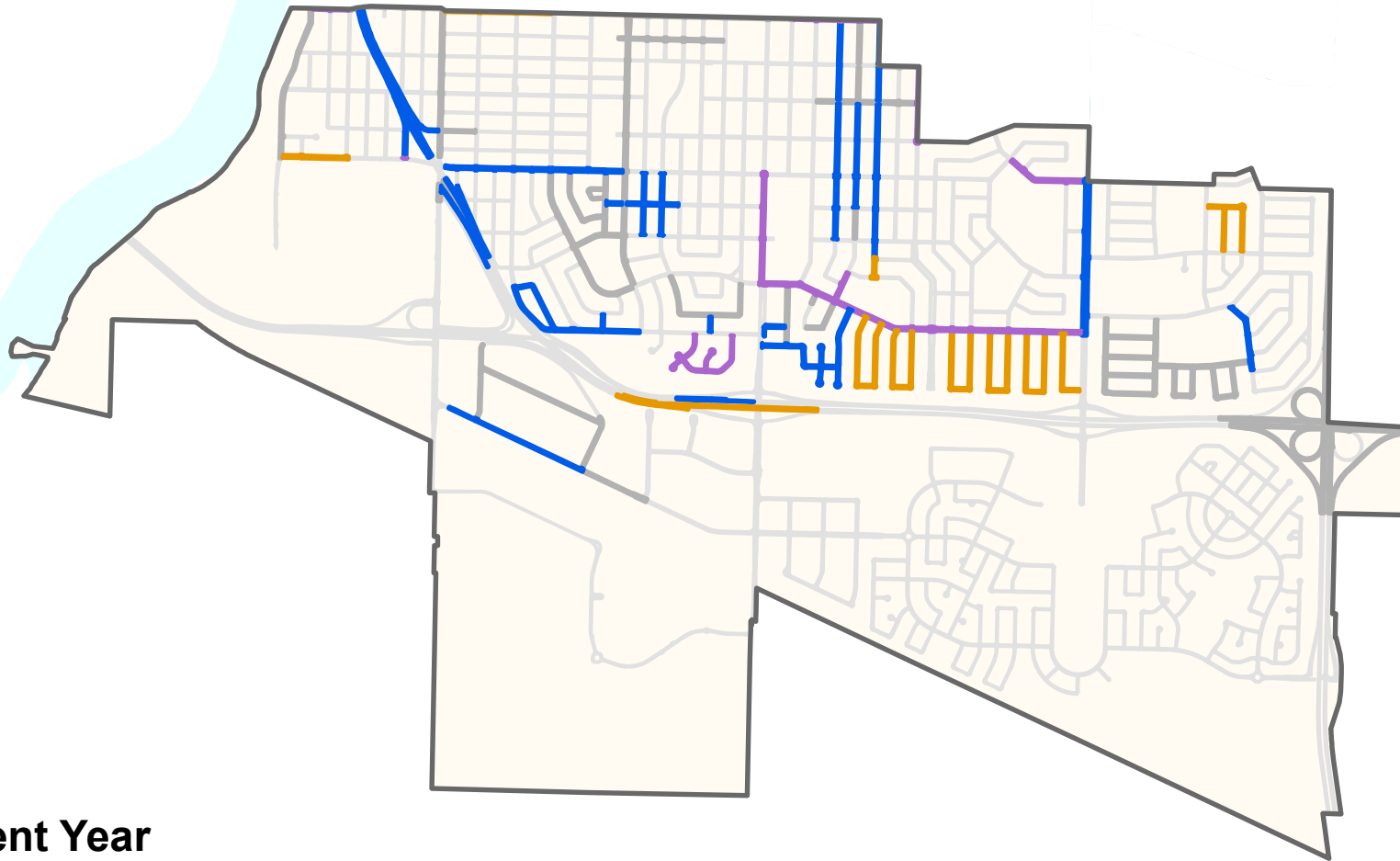
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
1st Ave N	24th St E	25th St E	Arterial	Road Preservation	Resurface	0.9
1st St E	Cumberland Ave S	Sommerfeld Ave	Local	Road Preservation	Reconstruction	1.7
9th Ave N	Duke St	Duchess St	Local	W&S Restoration	Resurface	0.4
20th St E	2nd Ave S	3rd Ave S	Collector	Road Preservation	Resurface	0.5
20th St E EB	Idylwyld Dr S NB	1st Ave S	Arterial	Road Preservation	Resurface	0.6
20th St E WB	1st Ave S	Idylwyld Dr S NB	Arterial	Road Preservation	Resurface	0.6
22nd St E	5th Ave N	Spadina Cres E	Local	Road Preservation	Resurface	0.2
5th Ave N	22nd St E	23rd St E	Local	Road Preservation	Resurface	0.6
5th St E	Clarence Ave S	Munroe Ave S	Local	Road Preservation	Reconstruction	0.9
9th St E	Clarence Ave S	Wiggins Ave S	Local	Road Preservation	Microsurface	1.3
Dufferin Ave	Taylor St E	8th St E	Local	Road Preservation	Microsurface	4.3
Eastlake Ave NB	9th St E	10th St E	Local	Road Preservation	Resurface	0.4
Eastlake Ave SB	10th St E	9th St E	Local	Road Preservation	Resurface	0.4
Elliott St	Wiggins Ave N	Bottomley Ave N	Local	W&S Restoration	Resurface	0.5
Idylwyld Dr S NB	20th St W	22nd St W	Arterial	Road Preservation	Resurface	1.2
Idylwyld Dr S SB	22nd St W	20th St W	Arterial	Road Preservation	Resurface	1.2
Main St EB	Cumberland Ave S	Preston Ave S	Collector	Road Preservation	Resurface	1.6
Main St WB	Preston Ave S	Cumberland Ave S	Collector	Road Preservation	Reconstruction	1.5
McKinnon Ave S	8th St E WB	Main St	Local	Road Preservation	Microsurface	0.5
Munroe Ave S	8th St E WB	Main St	Local	Road Preservation	Microsurface	0.4
Pacific Ave	22nd St E	25th St E	Local	Road Preservation	Resurface	1.5
Wall St	23rd St E	24th St E	Local	Road Preservation	Reconstruction	0.3
Wiggins Ave S	McLorg St	Taylor St E	Local	Road Preservation	Microsurface	3.7
2018 Totals						24.9

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
10th St E	Munroe Ave S	Cumberland Ave S	Local	Road Preservation	Microsurface	1.4
11th St E	Munroe Ave S	Cumberland Ave S	Local	Road Preservation	Microsurface	1.4
12th St E	Wiggins Ave S	Cumberland Ave S	Collector	Road Preservation	Microsurface	1.0
2nd St E	Clarence Ave S	Munroe Ave S	Local	Road Preservation	Reconstruction	1.1
3rd St E	Cumberland Ave S	Louise Ave	Local	Road Preservation	Microsurface	1.0
5th St E	Cumberland Ave S	Louise Ave	Local	Road Preservation	Microsurface	0.7
Clarence Ave S	8th St E	12th St E	Arterial	Road Preservation	Resurface	2.1
Copland Cres	Main St WB	Copland Crt	Local	Road Preservation	SUTO	1.3
Copland Crt	End of Sul-De-Sac	Copland Cres	Local	Road Preservation	SUTO	0.7
Cumberland Ave S	Adelaide St E	Taylor St E	Collector	Road Preservation	Resurface	2.2
Ewart Ave	Main St	12th St E	Local	Road Preservation	Microsurface	0.8
Garrison Cres	Main St	Cumberland Ave S	Collector	Road Preservation	Microsurface	2.7
Isbister St	Garrison Cres	Bate Cres	Local	Road Preservation	SUTO	0.6
Jackson Ave	Taylor St E	5th St E	Local	Road Preservation	Microsurface	1.4
Lake Cres	Leslie Ave	Main St WB	Local	Road Preservation	SUTO	2.7
Leslie Ave	Copland Crt	14th St E	Local	Road Preservation	SUTO	1.4
Louise Ave	Taylor St E	3rd St E	Collector	Road Preservation	Resurface	1.0
McPherson Ave	3rd St E	6th St E	Local	Road Preservation	Reconstruction	0.7
McPherson Ave	6th St E	8th St E	Local	Road Preservation	Microsurface	0.4
Munroe Ave S	Main St	12th St E	Local	Road Preservation	Microsurface	0.8
Park Ave	Taylor St E	5th St E	Local	Road Preservation	Microsurface	1.1
Preston Ave S NB	Louise Ave / Louise St	Armistice Way	Arterial	Road Preservation	Resurface	0.9
Taylor St E	McKinnon Ave S	Cumberland Ave S	Arterial	Road Preservation	Resurface	2.3
Taylor St W	St Henry Ave	Herman Ave / Saskatchewan Cres W	Collector	Road Preservation	Resurface	0.7
Victoria Ave NB	Taylor St E	8th St E	Collector	Road Preservation	Resurface	1.6
Victoria Ave SB	8th St E	Taylor St E	Collector	Road Preservation	Resurface	1.6
2019 Totals						33.4

	Lane-Km
2017	27.0
2018	24.9
2019	33.4
2017-2019 Totals	85.3

# 2017-2019 Projected Roadway Preservation

## Ward 7



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	76.7	74.1
2017*	74.5	74.9
2018*	76.1	75.7
2019*	75.7	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

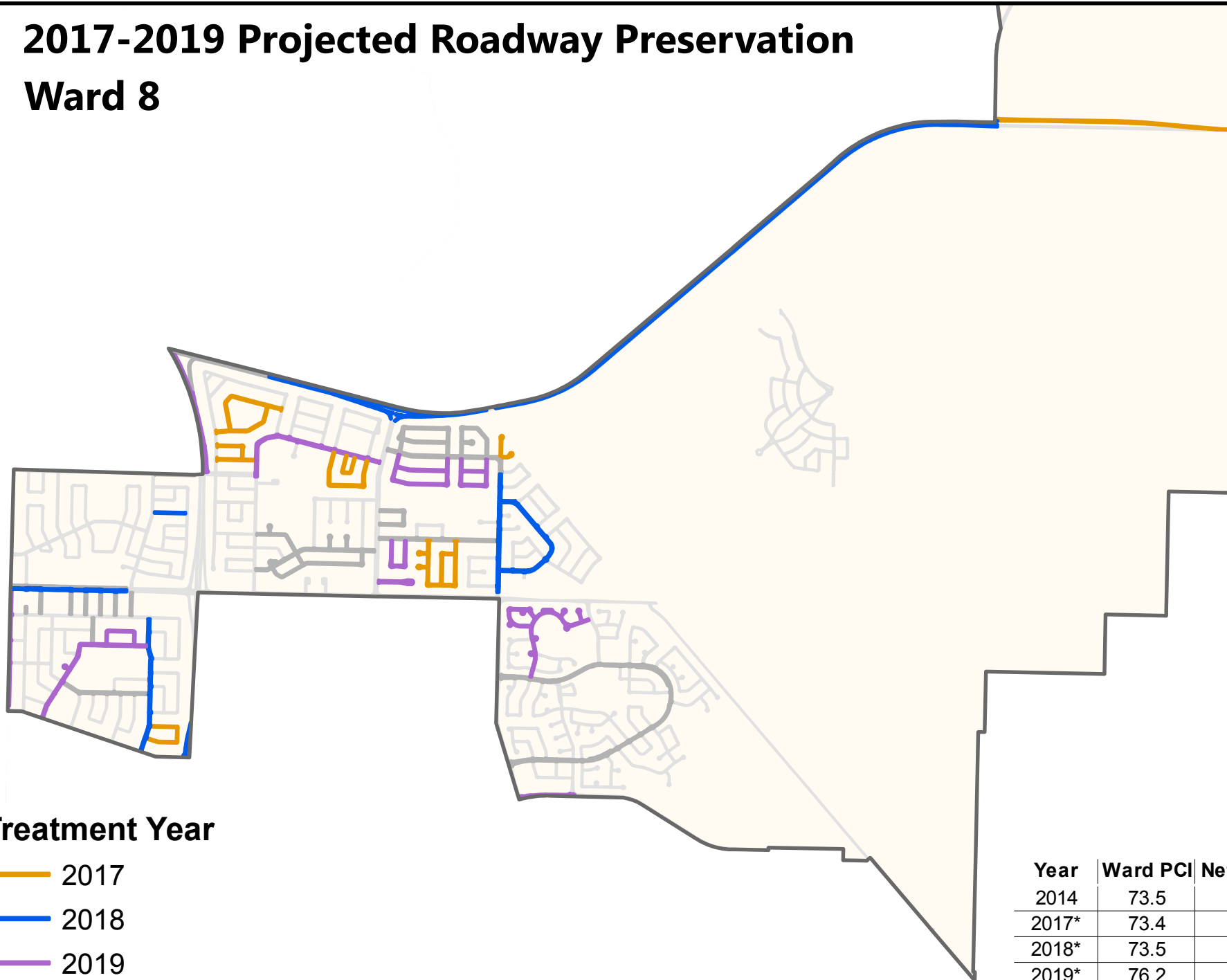
2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Brown Cres	Wilson Cres	Wilson Cres	Local	Road Preservation	Microsurface	2.0
Deborah Cres	Wilson Cres	Wilson Cres	Local	Road Preservation	Microsurface	2.0
Dumont Cres	Preston Ave S SB	Wilson Cres	Local	Road Preservation	Microsurface	1.1
East Centre	East Drive	East Centre	Local	Road Preservation	Microsurface	1.3
East Centre	East Drive	East Centre	Local	Road Preservation	Microsurface	0.6
MacLean Cres	Wilson Cres	Wilson Cres	Local	Road Preservation	Microsurface	2.2
Middleton Cres	Wilson Cres	Wilson Cres	Local	Road Preservation	Microsurface	2.0
Riel Cres	Wilson Cres	Wilson Cres	Local	Road Preservation	Microsurface	2.0
Ruth St W	St Henry Ave	Herman Ave	Collector	Road Preservation	Reconstruction	1.2
Wiggins Ave S	MacKenzie Cres	McLorg St	Local	Road Preservation	Reconstruction	0.4
2017 Totals						14.8

2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Adelaide St W	Ruth St / Idylwyld Dr S NW Ramp / Coy Av	Lorne Ave	Collector	Road Preservation	Resurface	0.3
Bute St	Royal Ave	Hanover Ave	Local	Road Preservation	Microsurface	1.1
Cairns Ave	Bute St	Hilliard St E	Collector	Road Preservation	Microsurface	1.6
Calder Ave	Calder Cres	Wilson Cres	Local	Road Preservation	SUTO	1.0
Calder Cres	Clarence Ave S	Calder Ave / Calder Crt	Local	Road Preservation	SUTO	1.5
Calder Crt	End of Cul-De-Sac	Calder Cres	Local	Road Preservation	SUTO	0.3
Calder Pl	End of Cul-De-Sac	Calder Cres	Local	Road Preservation	SUTO	0.3
Calder Terr	Calder Cres	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.3
Clarence Ave S (Side Street)	Lane	Glasgow St	Local	Road Preservation	SUTO	0.1
Dufferin Ave	Cascade St	Ruth St E	Local	Road Preservation	Microsurface	0.9
Easthill 2300 blk	Arlington Ave	Easthill 2200 blk	Local	Road Preservation	Resurface	1.2
Glasgow St	Clarence Ave S	Ferguson Ave	Local	Road Preservation	SUTO	0.3
Glasgow St	Young Cres	Broadway Ave	Collector	Road Preservation	Resurface	1.5
Melrose Ave	Young Cres	Young Cres	Collector	Road Preservation	Resurface	0.9
Melville St	Lorne Ave	Portage Ave	Collector	Road Preservation	Reconstruction	1.8
Munroe Ave S	Cascade St	Taylor St E	Local	Road Preservation	Microsurface	3.7
Preston Ave S NB	Wilson Cres	Louise Ave / Louise St	Arterial	Road Preservation	Resurface	1.7
Preston Ave S SB	Louise Ave / Louise St	Wilson Cres	Arterial	Road Preservation	Resurface	1.7
Ruth St E	Lorne Ave	Broadway Ave	Arterial	Road Preservation	Resurface	3.2
Turner Ave	Glasgow St	McAskill Cres	Local	Road Preservation	Reconstruction	0.2
William Ave	Cascade St	Ruth St E	Local	Road Preservation	Microsurface	0.9
Wiggins Ave S	McLorg St	Taylor St E	Local	Road Preservation	Microsurface	3.7
Yorath Ave	Glasgow St	Harrison Cres	Local	Road Preservation	Reconstruction	0.2
Young Cres	Glasgow St / Melrose Ave	Melrose Ave	Local	Road Preservation	SUTO	1.0
2018 Totals						29.5

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Cairns Ave	Wilson Cres	MacKenzie Cres	Collector	Road Preservation	Reconstruction	0.5
Clarence Ave S	Wilson Cres	Ruth St E	Arterial	Road Preservation	Resurface	2.0
Louise Ave	Preston Ave S	Murphy Cres / Ruth St E	Collector	Road Preservation	Resurface	1.5
Mendel Cove	End of Cul-De-Sac	Mendel Cres	Local	Road Preservation	SUTO	0.2
Mendel Cres	Glasgow St	Glasgow St	Local	Road Preservation	SUTO	1.6
Mendel Green	End of Cul-De-Sac	Mendel Cres	Local	Road Preservation	SUTO	0.2
Mendel Terr	Mendel Cres	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.3
St George Ave	Ruth St W	Adelaide St W	Collector	Road Preservation	Microsurface	0.4
Wilson Cres	Clarence Ave S	Preston Ave S	Collector	Road Preservation	Resurface	6.3
2019 Totals						13.0

	Lane-Km
2017	14.8
2018	29.5
2019	13.0
2017-2019 Totals	57.2

# 2017-2019 Projected Roadway Preservation Ward 8



## Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	73.5	74.1
2017*	73.4	74.9
2018*	73.5	75.7
2019*	76.2	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Acadia Crt	Acadia Dr	Acadia Dr	Local	Road Preservation	UTO	0.7
Baldwin Cres	Arlington Ave	Arlington Ave	Local	Road Preservation	Microsurface	1.2
Brandon Pl	Boychuk Dr	End	Local	Road Preservation	UTO	0.3
Cambridge Cres	Carleton Dr	Harvard Cres E Leg	Local	Road Preservation	Microsurface	1.3
Campion Cres	Acadia Dr	Acadia Dr	Local	Road Preservation	Microsurface	1.9
Harvard Cres	Cambridge Cres	Carleton Dr	Local	Road Preservation	Microsurface	1.7
McGill St	Carleton Dr	Acadia Dr	Local	Road Preservation	Microsurface	0.8
Moncton Pl	Boychuk Dr	End	Local	Road Preservation	UTO	0.4
Trent Cres	DeGeer St	DeGeer St	Local	Road Preservation	Microsurface	2.4
Trent Cres	Trent Cres	Trent Cres	Local	Road Preservation	Microsurface	0.9
Trent Crt	End	Trent Cres	Local	Road Preservation	Microsurface	0.2
Trent Pl	End	Trent Cres	Local	Road Preservation	Microsurface	0.2
Yale Cres	Carleton Dr	McGill St	Local	Road Preservation	Microsurface	0.7
2017 Totals						12.7

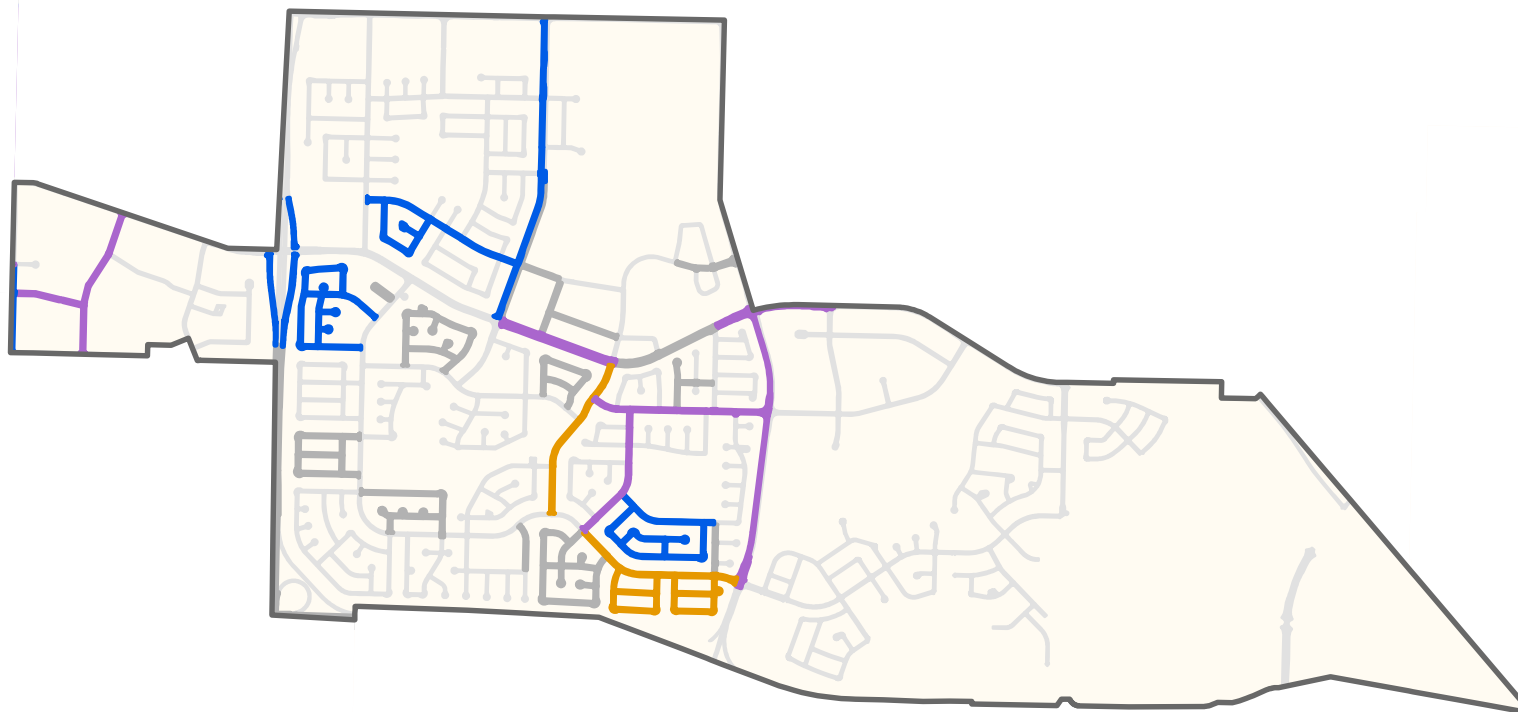
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Arlington Ave	Taylor St E	7th St E	Collector	Road Preservation	Resurface	3.4
Boychuk Dr	8th St E	Annason Cres	Collector	Road Preservation	Resurface	3.5
Laurentian Dr	Boychuk Dr	Boychuk Dr	Collector	Road Preservation	Microsurface	3.4
Mitchell St	Arlington Ave	Lindsay Dr	Local	Road Preservation	Resurface	0.5
2018 Totals						10.8

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
8th St E EB	Preston Ave S	Arlington Ave	Arterial	Road Preservation	Resurface	2.7
Acadia Dr	14th St E	McKercher Dr SB	Collector	Road Preservation	Resurface	4.1
Braeburn Cres	Braeside View	Braeside View	Local	Road Preservation	SUTO	1.3
Braeburn Crt	Braeburn Cres	Braeburn Cres	Local	Road Preservation	SUTO	0.1
Braeburn Pl	Braeburn Cres	Braeburn Cres	Local	Road Preservation	SUTO	0.2
Braeside Bay	Braeside View	Braeside View	Local	Road Preservation	SUTO	0.2
Braeside Crt	Braeside View	Braeside View	Local	Road Preservation	SUTO	0.2
Braeside Pl	Braeside View	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.3
Braeside Terr	Braeside View	End of Cul-De-Sac	Local	Road Preservation	SUTO	0.2
Braeside View Cul-De-Sac	Braeside View	Braeside View	Local	Road Preservation	SUTO	0.2
Braeside View	Briarwood Rd	Briargate Rd	Local	Road Preservation	SUTO	2.3
Braeside View (600blk Even)	Braeside View	Braeside View	Local	Road Preservation	SUTO	0.2
Champlin Cres	DeGeer St	DeGeer St	Local	Road Preservation	Microsurface	1.4
Edinburgh Pl	McKercher Dr	End of Cul-De-Sac	Local	Road Preservation	Microsurface	1.1
Laval Cres	Boychuk Dr	Boychuk Dr	Local	Road Preservation	Microsurface	1.7
Laval Cres (200 blk)	Laval Cres	Laval Cres	Local	Road Preservation	Microsurface	0.4
Potter Cres	Salisbury Dr	Salisbury Dr	Local	Road Preservation	Microsurface	0.9
Preston Ave S NB	Taylor St E	8th St E	Arterial	Road Preservation	Resurface	1.7
Preston Ave S SB	8th St E	Taylor St E	Arterial	Road Preservation	Microsurface	1.7
Salisbury Dr	Taylor St E	Arlington Ave	Local	Road Preservation	Microsurface	3.8
Salisbury Pl	End of Cul-De-Sac	Salisbury Dr	Local	Road Preservation	Microsurface	0.2
Taylor St E EB	Boychuk Dr	Briarvale Rd / Herold Rd	Arterial	Road Preservation	SUTO	0.9
Taylor St E WB	Briarvale Rd / Herold Rd	Boychuk Dr	Arterial	Road Preservation	SUTO	0.9
Waterloo Cres	Boychuk Dr	Boychuk Dr	Local	Road Preservation	Microsurface	1.5
Waterloo Cres	Waterloo Cres	Waterloo Cres	Local	Road Preservation	Microsurface	1.7
2019 Totals						29.7

	Lane-Km
2017	12.7
2018	10.8
2019	29.7
2017-2019 Totals	53.3

# 2017-2019 Projected Roadway Preservation

## Ward 9



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	78.8	74.1
2017*	76.8	74.9
2018*	77.7	75.7
2019*	79.0	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads



2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Brightwater Bay	Brightwater Cres	Brightwater Cres	Local	Road Preservation	Reconstruction	0.2
Brightwater Cres	Brightwater Way	Kingsmere Blvd	Local	Road Preservation	Reconstruction	0.2
Brightwater Cres	Kingsmere Blvd	Brightwater Way	Local	Road Preservation	SUTO	1.3
Brightwater Way	Brightwater Cres	Brightwater Cres	Local	Road Preservation	SUTO	0.5
Bronson Cres	Kingsmere Blvd	Kingsmere Blvd	Local	Road Preservation	Microsurface	1.6
Bronson Way	Bronson Cres	Bronson Cres	Local	Road Preservation	Microsurface	0.5
Kingsmere Blvd	Brightsand Way / Waterbury Rd	Boychuk Dr	Collector	Road Preservation	Microsurface	2.9
Weyakwin Dr	Kingsmere Blvd	Taylor St E	Collector	Road Preservation	Microsurface	2.6
2017 Totals						9.8

2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Avondale Rd	Acadia Dr	Penryn Cres / Richardt Pl	Collector	Road Preservation	UTO	1.1
Avondale Rd	Penryn Cres / Richardt Pl	McKercher Dr	Collector	Road Preservation	SUTO	1.5
Costigan Bay	Costigan Rd	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Costigan Cres	Costigan Rd	Costigan Rd	Local	Road Preservation	Microsurface	1.3
Costigan Crt	Costigan Way	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Costigan Pl	Costigan Way	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Costigan Rd	Kingsmere Blvd	Kingsmere Blvd	Local	Road Preservation	Microsurface	2.7
Costigan Way	Costigan Rd	Costigan Rd	Local	Road Preservation	Microsurface	0.8
Emmeline Rd	Waterbury Rd	Lavalee Rd	Local	Road Preservation	Microsurface	1.4
McKercher Dr SB	8th St E	Taylor St E	Arterial	Road Preservation	Resurface	4.3
Penryn Cres	Avondale Rd	Avondale Rd	Local	Road Preservation	UTO	1.5
Penryn Crt	End of Cul-De-Sac	Penryn Cres	Local	Road Preservation	UTO	0.3
Swan Cres	Emmeline Rd	Emmeline Rd	Local	Road Preservation	Microsurface	2.5
Swan Crt	Swan Lane	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Swan Lane	Swan Cres	Swan Cres	Local	Road Preservation	Microsurface	1.0
2018 Totals						19.3

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Adelaide St E	Preston Ave S	McEown Ave	Collector	Road Preservation	Microsurface	1.0
Boychuk Dr SB	Taylor St E	Kingsmere Blvd / Rosewood Blvd W	Arterial	Road Preservation	Resurface	3.8
McEown Ave	Louise St	Taylor St E	Collector	Road Preservation	Microsurface	2.3
Nemeiben Rd	Brabant Cres	Emmeline Rd	Collector	Road Preservation	Resurface	0.5
Taylor St E EB	Brudell Rd	Boychuk Dr	Arterial	Road Preservation	Resurface	0.5
Taylor St E EB	McKercher Dr	Heritage Cres / Weyakwin Dr	Arterial	Road Preservation	Resurface	1.7
Taylor St E WB	Boychuk Dr	Brudell Rd	Arterial	Road Preservation	Resurface	0.5
Taylor St E WB	Heritage Cres / Weyakwin Dr	McKercher Dr	Arterial	Road Preservation	Resurface	1.7
Waterbury Rd	Kingsmere Blvd	Nemeiben Rd	Collector	Road Preservation	SUTO	2.3
2019 Totals						14.3

	Lane-Km
2017	9.8
2018	19.3
2019	14.3
2017-2019 Totals	43.3

# 2017-2019 Projected Roadway Preservation

## Ward 10



### Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Ward PCI	Network PCI**
2014	79.2	74.1
2017*	77.8	74.9
2018*	78.1	75.7
2019*	77.3	76.4

\*PCI based on projected deterioration

\*\*Excludes Expressway & Boundary Roads

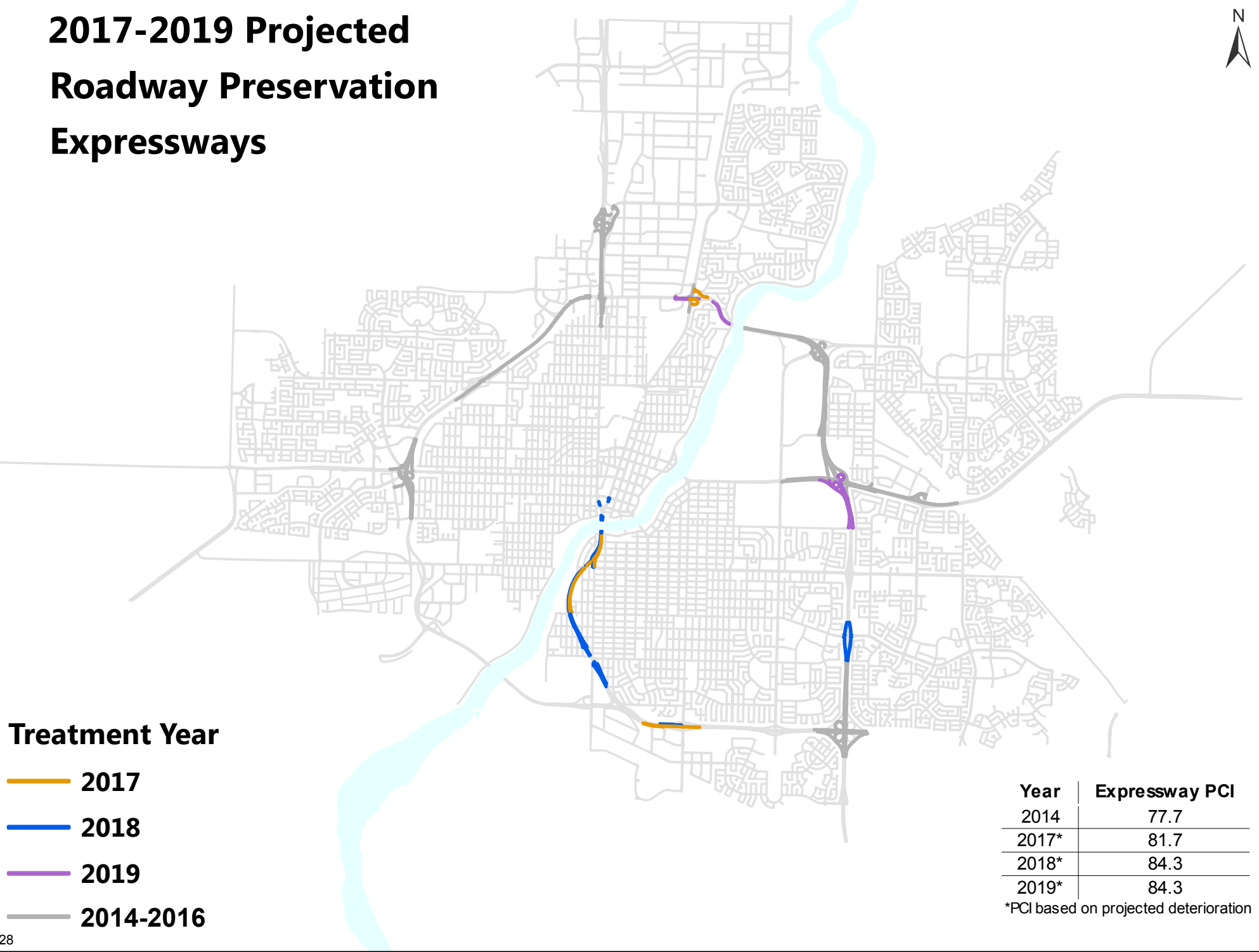
2017 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Beckett Cres	Beckett Green	Beckett Green	Local	Road Preservation	SUTO	1.4
Beckett Green	Kenderdine Rd	Kenderdine Rd	Local	Road Preservation	SUTO	0.7
Beerling Cres	Koniowski Rd	Koniowski Rd	Local	Road Preservation	Microsurface	1.9
Kenderdine Rd	Bonli Cres E Leg	115th St E	Collector	Road Preservation	Reconstruction	1.0
Kenderdine Rd	Epp Ave / Mulcaster Cres	Bonli Cres E Leg	Collector	Road Preservation	Reconstruction	1.3
Kutz Cres	Kenderdine Rd	Kenderdine Rd	Local	Road Preservation	SUTO	1.3
Kutz Cres	Kutz Cres	Kutz Cres	Local	Road Preservation	SUTO	0.2
Kutz Crt	Kutz Cres	Kutz Cres	Local	Road Preservation	SUTO	0.1
Steiger Pl	Steiger Cres	End	Local	Road Preservation	Microsurface	0.2
Steiger Way	Steiger Cres	Steiger Cres	Local	Road Preservation	Microsurface	0.9
2017 Totals						9.0

2018 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Attridge Dr EB	Lowe Rd / Kenderdine Rd	McOrmond Dr	Arterial	Road Preservation	SUTO	1.6
Attridge Dr WB	McOrmond Dr	Lowe Rd / Kenderdine Rd	Arterial	Road Preservation	SUTO	1.6
Bornstein Cres	Kerr Rd	Cowley Rd	Local	Road Preservation	Microsurface	1.2
Bornstein Crt	Bornstein Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Bornstein Terr	Bornstein Cres	End of Cul-De-Sac	Local	Road Preservation	Reconstruction	0.4
Haslam Cres (100 blk)	Haslam Cres	Koniowski Rd	Local	Road Preservation	Microsurface	0.3
Haslam Pl	Haslam Way	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Haslam Way	Haslam Cres	Haslam Cres	Local	Road Preservation	Microsurface	1.1
Koniowski Rd	Central Ave	Garvie Rd	Collector	Road Preservation	Microsurface	3.2
Perehudoff Cres	Kenderdine Rd	Kenderdine Rd	Local	Road Preservation	Microsurface	2.0
Perehudoff Crt	Perehudoff Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Pezer Cove	Pezer Lane	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.8
Pezer Cres	Koniowski Rd	Koniowski Rd	Local	Road Preservation	Microsurface	2.4
Pezer Lane	Pezer Cres	Pezer Cres	Local	Road Preservation	Microsurface	0.5
Scissons Cres	Garvie Rd	Garvie Rd	Local	Road Preservation	Microsurface	1.8
Scissons Crt	Scissons Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
Scissons Terr	Scissons Cres	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.2
2018 Totals						18.2

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS						
Street Name	From	To	Road Class	Project Type	Treatment	Lane-Km
Epp Ave	Kenderdine Rd	Perehudoff Cres	Local	Road Preservation	Microsurface	0.6
Epp Crt	End of Cul-De-Sac	Epp Ave	Local	Road Preservation	Microsurface	0.3
Epp Pl	Epp Ave	End of Cul-De-Sac	Local	Road Preservation	Microsurface	0.3
Kenderdine Rd	Kerr Rd	Forsyth Cres / Steiger Cres	Collector	Road Preservation	Resurface	0.8
Kerr Rd	Kenderdine Rd	McOrmond Dr	Collector	Road Preservation	Resurface	0.7
McOrmond Dr NB	Kerr Rd / Stensrud Rd	Addison Rd / Nelson Rd	Arterial	Road Preservation	Microsurface	3.1
McOrmond Dr SB	Addison Rd / Nelson Rd	Kerr Rd / Stensrud Rd	Arterial	Road Preservation	Microsurface	4.0
2019 Totals						9.7

	Lane-Km
2017	9.0
2018	18.2
2019	9.7
2017-2019 Totals	36.9

# 2017-2019 Projected Roadway Preservation Expressways



## Treatment Year

- 2017
- 2018
- 2019
- 2014-2016

Year	Expressway PCI
2014	77.7
2017*	81.7
2018*	84.3
2019*	84.3

\*PCI based on projected deterioration

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS					
Street Name	From	To	Project Type	Treatment	Lane-Km
8th St W / Lorne Ave / Idylwyld Dr S NE Ramp	8th St E	Idylwyld Dr S NB	W&S Restoration	Resurface	0.6
Circle Dr / Warman Rd NE Ramp	NE Ramp From Circle Dr WB	Warman Rd	Road Preservation	Resurface	0.9
Circle Dr / Warman Rd SE Loop	Circle Dr EB	Warman Rd NB	Road Preservation	Resurface	0.6
Circle Dr EB	Idylwyld Dr S SB	Circle Dr / Clarence Ave S SE Ramp	Road Preservation	Resurface	2.8
Idylwyld Dr S / Taylor St W NE Ramp	Taylor St W	Idylwyld Dr S NB	Road Preservation	Resurface	0.4
Idylwyld Dr S NB	Idylwyld Dr S / Taylor St W Overpass NB	Taylor St E / Idylwyld Dr S NE Ramp	Road Preservation	Resurface	0.4
Idylwyld Dr S NB	Taylor St E / Idylwyld Dr S NE Ramp	Idylwyld Dr S / Saskatchewan Cres E Overpass	Road Preservation	Resurface	3.9
2017 Totals					9.6

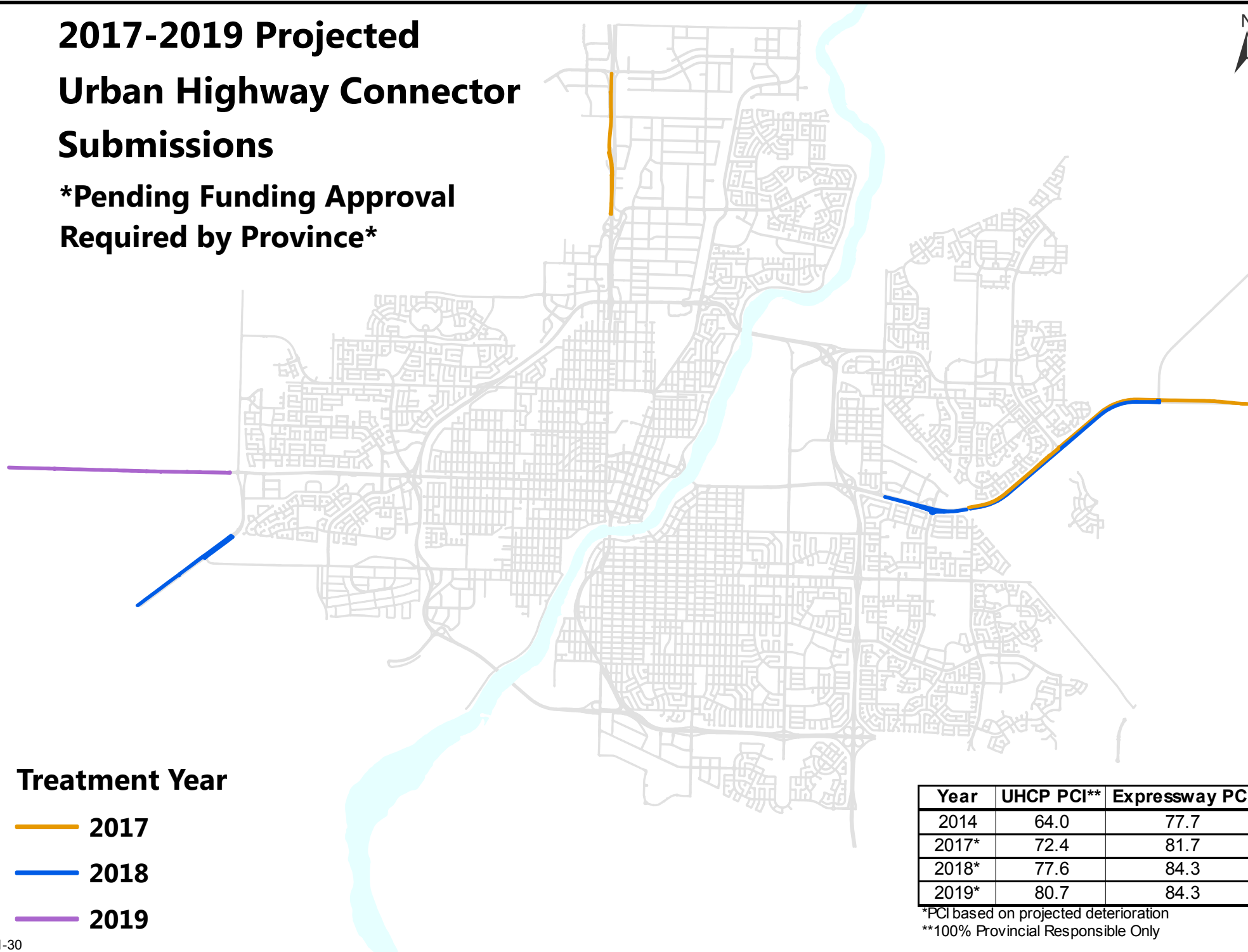
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS					
Street Name	From	To	Project Type	Treatment	Lane-Km
1st Ave S NB	1st Ave S / 19th Street Overpass NB	20th St E	Road Preservation	Resurface	0.5
1st Ave S SB	19th St E WB	Sid Buckwold Bridge SB	Road Preservation	Resurface	0.2
8th St / Lorne Ave / Idylwyld Dr S NW Ramp	Idylwyld Dr S SB	Lorne Ave	Road Preservation	Microsurface	1.3
Circle Dr / Taylor St E NE Ramp	Taylor St E	Circle Dr NB	Road Preservation	Resurface	0.5
Circle Dr / Taylor St E NW Ramp	Circle Dr SB	Taylor St E	Road Preservation	Resurface	0.6
Circle Dr / Taylor St E SE Ramp	Circle Dr NB	Taylor St E	Road Preservation	Resurface	1.3
Circle Dr / Taylor St E SW Ramp	Taylor St E	Circle Dr SB	Road Preservation	Resurface	0.9
Circle Dr WB	Circle Dr / Clarence Ave S NW Ramp	Circle Dr WB / Idylwyld Dr NB Exit Ramp	Road Preservation	Resurface	0.8
Idylwyld Dr S / Ruth St NE Ramp	Adelaide St W / Coy Ave	Idylwyld Dr S NB	Road Preservation	Resurface	0.2
Idylwyld Dr S NB	Idylwyld Dr S / 19th St E Overpass	100m South of 20th St	Road Preservation	Resurface	0.2
Idylwyld Dr S NB	Idylwyld Dr S / Ruth St W Overpass NB	Idylwyld Dr S / Taylor St W Overpass	Road Preservation	Resurface	2.4
Idylwyld Dr S NB	Idylwyld Dr S / Saskatchewan Cres E Overpass	Idylwyld Dr S / 19th St E Overpass NB	Road Preservation	Resurface	0.4
Idylwyld Dr S SB	Idylwyld Dr S / 19th St E Overpass SB	Idylwyld Dr S / Ruth St W Overpass SB	Road Preservation	Microsurface	7.0
Ruth St / Idylwyld Dr S NW Ramp	Idylwyld Dr S SB	Adelaide St W	Road Preservation	Microsurface	0.3
Ruth St / Idylwyld Dr S SE Ramp	Idylwyld Dr S NB	Vernon Ave	Road Preservation	Resurface	0.3
Ruth St / Idylwyld Dr S SW Ramp	Lorne Ave	Idylwyld Dr S SB	Road Preservation	Resurface	0.9
2018 Totals					17.8

2019 PROJECTED ROADWAY PRESERVATION LOCATIONS					
Street Name	From	To	Project Type	Treatment	Lane-Km
Circle Dr / 14th St E NE Ramp	14th St E	Circle Dr NB	Road Preservation	Resurface	0.3
Circle Dr / 14th St E NW Ramp	Circle Dr SB	14th St E	Road Preservation	Resurface	0.3
Circle Dr / College Dr NE Loop	Circle Dr E NB	College Dr WB	Road Preservation	Resurface	0.6
Circle Dr / College Dr SW Loop	Circle Dr E SB	College Dr EB	Road Preservation	Resurface	0.6
Circle Dr / College Dr SW Ramp	College Dr	Circle Dr SB	Road Preservation	Resurface	1.6
Circle Dr NB	Circle Dr / 14th St E Overpass NB	Circle Dr / College Dr Overpass NB	Road Preservation	Resurface	2.9
Circle Dr EB	Venture Cres / Millar Ave	Circle Dr N Bridge EB	Road Preservation	Resurface	4.1
Circle Dr SB	Circle Dr / College Dr Overpass SB	Circle Dr / 14th St E NW Ramp	Road Preservation	Resurface	2.4
Idylwyld Dr S NB	Circle Dr / Idylwyld Dr S NE Ramp	Idylwyld Dr S / Ruth St W Overpass NB	Road Preservation	Resurface	1.4
2019 Totals					14.2

	Lane-Km
2017	9.6
2018	17.8
2019	14.2
2017-2019 Totals	41.6

# 2017-2019 Projected Urban Highway Connector Submissions

**\*Pending Funding Approval  
Required by Province\***



Year	UHCP PCI**	Expressway PCI
2014	64.0	77.7
2017*	72.4	81.7
2018*	77.6	84.3
2019*	80.7	84.3

\*PCI based on projected deterioration

\*\*100% Provincial Responsible Only

2017 PROJECTED ROADWAY PRESERVATION LOCATIONS					
Street Name	From	To	Project Type	Treatment	Lane-Km
Highway 5 / College Dr WB	City Limits	College Dr / CNR Overpass WB	UHCP	Structural Overlay	18.6
Idylwyld Dr N SB	71st St W	Highway 16 EB	UHCP	Structural Overlay	6.7
Idylwyld Dr N SB	Highway 16 EB	Idylwyld Dr N / 51st St E / Ave C N NW Ramp	UHCP	Resurface	5.5
2017 Totals					30.9
2018 PROJECTED ROADWAY PRESERVATION LOCATIONS					
Street Name	From	To	Project Type	Treatment	Lane-Km
College Dr / Mckercher Dr SE Ramp	Mckercher Dr	College Dr EB	UHCP	Resurface	0.6
College Dr / Mckercher Dr SW Ramp	College Dr EB	Mckercher Dr	UHCP	Resurface	0.9
College Dr EB	Central Ave	11th St W	UHCP	Structural Overlay	24.6
Highway 7 NB	11th St W	Rail	UHCP	Structural Overlay	1.9
2018 Totals					28.0
2019 PROJECTED ROADWAY PRESERVATION LOCATIONS					
Street Name	From	To	Project Type	Treatment	Lane-Km
Highway 14	City Limits	Highway 7	UHCP	Structural Overlay	13.4
2019 Totals					13.4

	Lane-Km
2017	30.9
2018	28.0
2019	13.4
2017-2019 Totals	72.2

Projected Roadway Preservation - UHCP Submissions





# Projected 2017-2019 Water & Sewer Assets



Building Better  
INFRASTRUCTURE:  
**Water &**  
Wastewater Systems





## Water & Sewer Assets

Water and sewer preservation programs are selected annually based upon the condition of assets (water and sewer mains and service lines) as well as approved levels of service and funding plans.

In 2017 the Water & Sewer Infrastructure Reserve portion of the Utility Rate received a 73% increase in funding intended for an accelerated lead service line (LSL) replacement (LSL) and water capacity upgrade program. The replacement of LSLs will move to a strategic approach whereby large sections of neighborhoods will be replaced at once and work will be streamlined with necessary water main and road upgrades. If 2017 funding levels are maintained, the City's remaining LSL inventory will be completely replaced by 2027.

Existing water main lining and sewer main lining programs that address water main breaks and sewer failures will also continue at pre-2017 funding levels.

In addition to the increased reserve funding, the City also received a significant influx of federal and provincial funding through the Clean Water and Wastewater Fund. This funding must be spent in 2017 and will be used on LSL replacements, water main capacity upgrades, water main lining, and sewer main lining.

## Assumptions

The following assumptions were used to produce this water and sewer preservation plan document:

- Target base funding (W&S Inf. Reserve) is approved and maintained for the 2017 – 2019 utility rate cycle.
- Utility rate funding is based on assumed water usage levels and thereby water revenues. If water usage levels drop significantly, funding levels may need to be adjusted.
- The unit rate cost estimates are based on but not limited to: contractor unit rates, project management, administration, traffic control, testing, and a contingency.
- The attached document includes proposed treatments. Actual locations and quantities treated may vary prior to construction.

## 2017-2019 Projected Budgets

The following table outlines the budgets for 2016 and 2017 and projected budgets for 2018 and 2019.

Program	2016 Budget (\$M)	2017 Budget (\$M)	2018* Budget (\$M)	2019* Budget (\$M)
Water Preservation	\$5.160	\$5.495	\$5.853	\$6.233
Water Capacity	\$0.200	\$0.560	\$5.673	\$5.815
LSL Replacements	\$1.605	\$2.404	\$4.770	\$3.172
Sewer Preservation	\$3.700	\$3.118	\$3.887	\$3.984
Sewer Service Lines	\$0.615	\$0.630	\$0.646	\$0.662
City portion of CWWF funding		\$7.900		
Provincial portion of CWWF funding		\$7.900		
Federal portion of CWWF funding		\$15.800		
<b>Totals</b>	<b>\$11.280</b>	<b>\$43.807</b>	<b>\$20.829</b>	<b>\$20.406</b>

\*Projected

## 2017 Planned Treatments, Unit Rates and Quantities Preserved

Treatment	Unit Rate	Estimated Treatment Quantity
Open Trench Water Main Replacement	\$1,700-2,000 /lin.m.	8 113 m
Water Main Lining	\$1,700-2,000 /lin.m.	7 452 m
Sanitary Lining	\$200-300 /lin.m.	21 806 m
Service Line Replacements	\$5,000-6000 each	1 032

## Water & Sewer Treatment Descriptions

**Open Trench Water Main Replacement** – this method is used in areas where water main capacity needs to be improved or there are numerous lead service lines connecting to the main. To increase flow capacity, mains need to be upsized, typically from 150mm diameter to 200mm diameter. If numerous lead services need to be replaced at the same time as the water main, the most cost effective approach is to do an open trench excavation.

**Water Main Lining** – this method is used on water mains where capacity is not a concern, there are minimal lead services, and the road surface is not scheduled for a preservation treatment. Water main lining requires small excavations at each end of the work limits, as well as at hydrants and valves. From these excavations a liner is pulled inside the existing water main. The liner hardens and seals the pipe against future leaks and water main breaks. The finished liner has the strength and characteristics as a new plastic PVC pipe. Water main lining has traditionally been about 66% of the cost of open trench water main replacement.

**Sanitary and Storm Sewer Main Lining** – this is the same method as water main except that no excavation is required. Sanitary and Storm mains have access points (manholes) approximately every 150m to 200m that allow for installation. This method of rehabilitation for sanitary and storm mains has been used in Saskatoon since the 1990's and has been so effective that open trench replacement of sewer mains has been phased out except for in extreme circumstance where a liner cannot be installed.

**Water and Sewer Service Line Replacements** - lead water service lines and tar fiber sewer service lines are replaced;

- In conjunction with open trench water main replacement,
- At the request of homeowners,
- Prior to certain roadway preservation treatments,
- And on emergency basis.

Service lines are replaced using a trenchless method called "pipe-bursting". This involves excavations above the main line in the street, at the property line, and at the building (either outside the building at the foundation or a small hole in the basement). The old service lines are removed by pulling them out of the ground from excavation to excavation and new service lines are inserted into place in the tunnel created by removing the old lines. Whenever a lead service line is worked on (planned or emergency), replacement is required from the main line to the water meter. Tar fiber sewer lines are replaced from the main line to property line and the homeowner has the option whether or not to replace their portion. The City is responsible for costs in the public right of way and the property owner is responsible for costs on their property. This cost split is approximated by the City paying 60% of contract costs and the property owner paying 40%. The City has cost deferral programs that the property owner can use to add their costs to their annual property taxes.



# Projected 2017-2019 Water & Sewer Preservation Plan

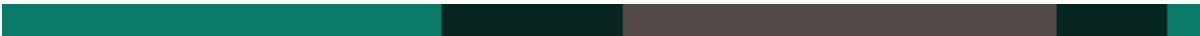
## Project Locations by Type



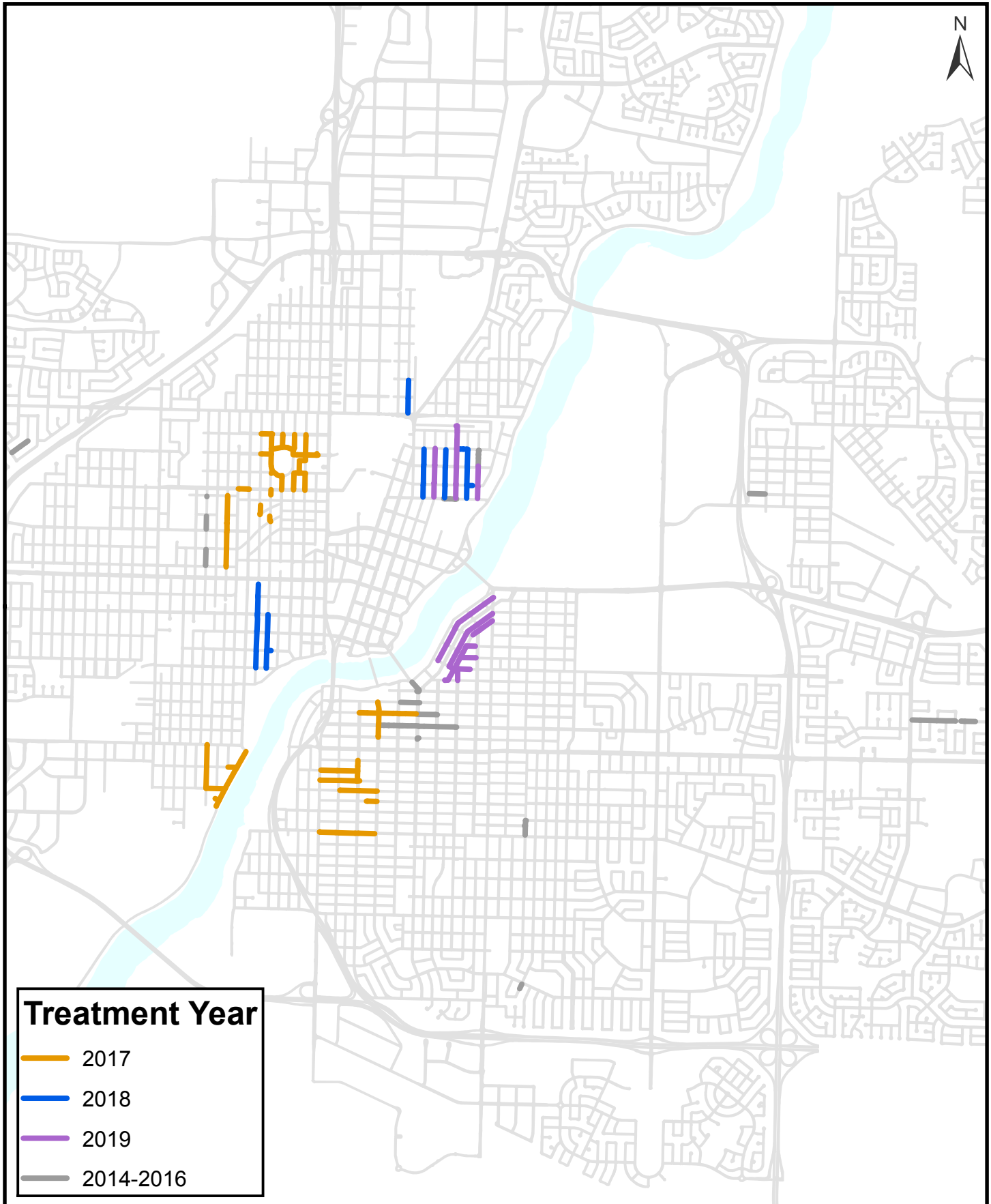
2017-2019 Water Main Open Trench

2017 Water Main Lining

2017-2019 Sanitary Main Lining



# 2017-2018 Water & Sewer Preservation Water Main Open Trench Locations





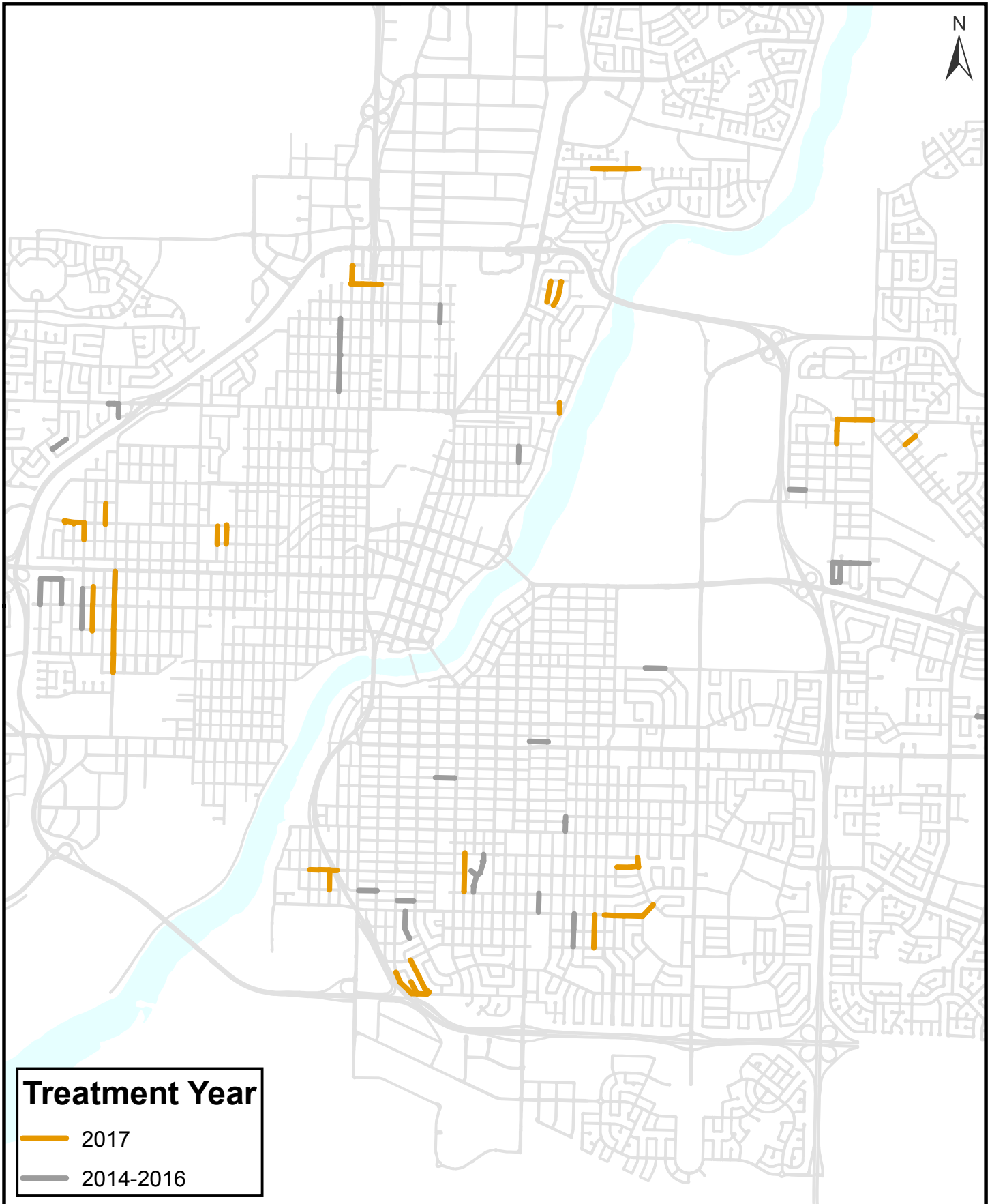
2017 Open Trench Water Main Replacement with Lead Replacements				
Street Name	From	To	Main Length (m)	Lead (ea)
10th St E	Melrose Ave	Broadway Ave	523	43
29th St W	Ave I N	Ave J N	107	3
30th St W	Ave D N	Ave C N	93	3
30th St W	Ave F N	Ave E N	107	0
31st St W	Ave B N	Ave G N	628	33
32nd St W	Ave G N	Ave F N	107	3
3rd St E	Melrose Ave	Victoria Ave	103	0
4th St E	McPherson Ave	Victoria Ave	361	35
5th St E	Lorne Ave	Melrose Ave	383	30
6th St E	Lorne Ave	Melrose Ave	357	22
Ave C N	29th St W	32nd St W	422	23
Ave D N	29th St W	30th St W	179	14
Ave D N	31st St W	32nd St W	152	10
Ave E N	29th St W	30th St W	139	11
Ave E N	31st St W	32nd St W	124	8
Ave F N	28th St W	29th St W	51	3
Ave F N	30th St W	32nd St W	390	8
Ave F N	Bedford Rd	Rusholme Rd	56	4
Ave G N	Rusholme Rd	28th St W	95	2
Ave J N	23rd St W	28th St W	691	47
Ave K S	Schuyler St	11th St W	422	46
Dudley St	Ave I S	Spadina Cr W	85	0
Melrose Ave	5th St E	7th St E	198	8
North/South Lane Between Ave C N and Ave D N	30th St W	Ave C N	178	16
Schuyler St	Ave K S	Spadina Cr W	183	1
Spadina Cr W	south of Schuyler St	11th St W	716	2
Taylor St E	Lorne Ave	Victoria Ave	537	14
Victoria Ave	9th St E	11th St E	342	4
Totals			7729	393

2018 Open Trench Water Main Replacement with Lead Replacements				
Street Name	From	To	Main Length (m)	Lead (ea)
10th Ave N	Duke St	Duchess St	0	7
18th St W	Ave F S	Ave E S	40	0
2nd Ave N	33rd St E	35th St E	318	28
3rd Ave N	Queen St	Duke St	0	26
4th Ave N	Queen St	Duke St	466	58
6th Ave N	Queen St	Duke St	465	44
8th Ave N	Queen St	Duke St	475	35
9th Ave N	Duke St	Duchess St	0	24
Ave F S	17th St W	20th St W	521	46
Ave G S	17th St W	22nd St W	812	64
Duke St	7th Ave N	8th Ave N	106	0
King St	8th Ave	9th Ave	55	2
Totals			3258	334

2019 Open Trench Water Main Replacement with Lead Replacements				
Street Name	From	To	Main Length (m)	Lead (ea)
14th St E	Temperance St	Albert Ave	206	17
15th St E	Temperance St	Albert Ave	146	6
5th Ave N	Queen St	Duke St	470	36
7th Ave N	Queen St	Lauriston St	708	55
9th Ave N	Queen St	Princess St	313	19
Colony St	Temperance St	Albert Ave	85	6
Lansdowne Ave	13th St E	14th St E	113	5
North/South Lane Between Saskatchewan Cr E and University Dr	14th St E	Clarence Ave N	837	30
North/South Lane Between University Dr and Temperance St	14th St E	Clarence Ave N	678	42
Temperance St	16th St E	Clarence Ave N	232	9
Temperance St	Dufferin Ave	Colony St	403	11
Totals			4191	236

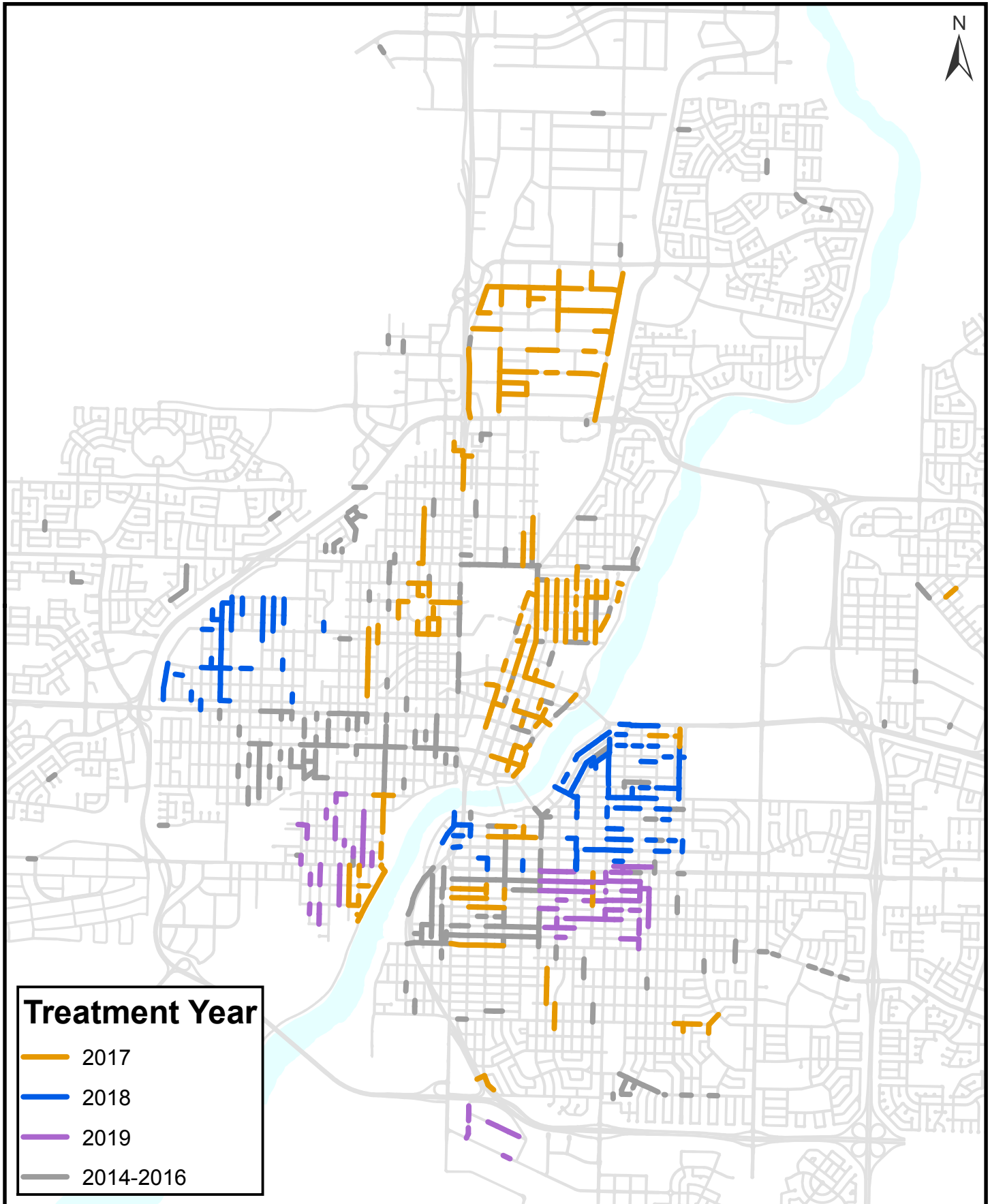
	Main Length (m)	Lead (ea)
2017	7729	393
2018	3258	334
2019	4191	236
2017-2019 Totals	15178	963

# 2017 Water & Sewer Preservation Water Main Lining Locations



2017 Water Main Lining				
Street Name	From	To	Main Length (m)	Lead (ea)
115th St W	Egbert Ave	Central Ave	342	
40th St Easement	Ave C N	Saskatchewan Ave	297	
Ave C N	40th St easement	41st St W	179	
Ave N N Easement	Bedford Rd	Rusholme Rd	185	
Ave W S	17th St W	22nd St W	982	
Ave X N	Rusholme Rd	Rylston Rd	202	
Ave Y S	19th St W	21st St W	430	
Churchill Dr	East of Coppermine Cr	East of Ravine Dr	444	
Dunlop St	Spark Ave	Prairie Ave	139	1
Egbert Ave	113th St W	115th St W	238	
Ewart Ave	Cascade St	Ruth St E	321	
Glasgow St	Melrose Ave	McConnell Ave	164	
Hilliard St W	Herman Ave	St. George Ave	268	
Leyden Cr North Leg	Leyden Cr West Leg	Louise Ave	208	
Louise Ave	Isabella St E	Leyden Cr North Leg	93	
McConnell Ave	Cascade St	Glasgow St	375	
McMillan Ave	Bedford Rd	Rusholme Rd	176	
Melrose Ave	Young Cr North Leg	Glasgow St	261	
Richmond Cres West Leg	COMBINED M	Richmond Cres North Leg	202	
Richmond Place N & S	Richmond Cres South Leg	Richmond Cres North Leg	241	
Rusholme Rd	Ottawa Ave N	Witney Ave N	220	
Ruth St E	Cumberland Ave	Louise Ave	523	
Spadina Cr E - Alley	33rd St E	Oxford St	100	
St. Patrick Ave	Adelaide St W	Hilliard St W	192	4
William Ave	Isabella St E	Adelaide St E	376	
Witney Ave N	Bedford Rd	Rusholme Rd	165	
Young Cr	19 Young Cr	Glasgow St	129	
Totals			7452	5

# 2017-2019 Water & Sewer Preservation Sanitary Sewer Main Lining Locations



2017 Sewer Main Lining			
Street Name	From	To	Main Length (m)
10th Ave N	Duke St	Duchess St	172
10th St E	Melrose Ave	Broadway Ave	508
11th St E	Melrose Ave	Eastlake Ave	192
17th St W	Ave I S	Ave G S	208
1st Ave N	22nd St E	24th St E	325
1st Ave N	25th St E	26th St E	104
1st Ave N	33rd St E	35th St E	346
1st Ave N	43rd St E	44th St E	119
1st Ave N	48th St E	50th St E	191
1st Ave N	King St	Duke St	260
1st Ave S	21st St E	22nd St E	91
20th St E	2nd Ave S	Spadina Cres E	317
21st St E	4th Ave S	Spadina Cres E	72
23rd St E	1st Ave N	Spadina Cres E	568
23rd St E	Spadina Cres E	Victoria Park	37
24th St E	Ontario Ave	1st Ave N	124
25th St E	3rd Ave N	6th Ave N NB / Kinsmen Ave	307
29th St W	Ave D N	Ave C N	110
29th St W	Ave E N	Ave D N	94
2nd Ave N	24th St E	36th St E	1122
30th St W	Ave D N	Ave C N	114
31st St W	Ave E N	Ave D N	48
31st St W	Ave G N	Idylwyld Dr N	403
32nd St W EB	Ave F N	Ave D N	218
33rd St W	Ave E N	Ave D N	42
3rd Ave N	23rd St E	Duchess St	1020
43rd St E	Faithfull Ave	1st Ave N	294
44th St E	Northridge Dr	1st Ave N	386
45th St E	Faithfull Ave	Millar Ave	822
46th St E	1st Ave N	Wentz Ave	319
46th St E	McKee Ave	Millar Ave	121
47th St E	Northridge Dr	Faithfull Ave	300
47th St E	Wentz Ave	Millar Ave	182
48th St E	Northridge Dr	Faithfull Ave	124
48th St E	Wentz Ave	Millar Ave	613
4th Ave N	22nd St E	23rd St E	50
4th Ave N	25th St E WB	26th St E	103
4th Ave N	King St	Duchess St	523
4th Ave S	19th St E	21st St E	234
4th St E	McPherson Ave	Victoria Ave	378
50th St E	Northridge Dr	Millar Ave	1307
5th Ave N	23rd St E	24th St E	91
5th Ave N	Queen St	Duchess St	613
5th St E	Lorne Ave	Melrose Ave	372
6th Ave N	Queen St	Duchess St	612
6th St E	Lorne Ave	Melrose Ave	365
7th Ave N	Queen St	33rd St E	592
8th Ave N	Queen St	Duchess St	623
9th Ave N	Duke St	Duchess St	172
9th Ave N	Queen St	Princess St	221
Across Idylwyld Dr S	Jasper Ave	Melrose Ave	87
Albert Ave	4th St E	8th St E	348
Ave C N	29th St W	30th St W	167
Ave D N	29th St W	30th St W	143
Ave D N	31st St W	32nd St W	130
Ave E N	29th St W	37th St W	719
Ave E N NB	31st St W	32nd St W	128
Ave G N	30th St W	31st St W	176
Ave H S	11th St W	13th St W	165
Ave H S	15th St W	17th St W	401
Ave I N	28th St W	30th St W	187
Ave J N	23rd St W	29th St W EB	717
Ave J S	Schuyler St	11th St W	210
Ave K S	Schuyler St	11th St W	425
Buffer Strip East of Idylwyld Dr N	Idylwyld Dr N / Circle Dr NE Ramp	N/S Lane West of Northridge Dr	67
Cleveland Ave	50th St E	51st St E	178
Duchess St	King Cres	Spadina Cres E	43
Dudley St	Ave J S	Ave I S	104
Dufferin Ave	Bute St	Ruth St E	80
Dufferin Ave	Ruth St E	Adelaide St E	185
Duke St	1st Ave N	3rd Ave N	92
Duke St	8th Ave N	10th Ave N	214
Dunlop St	Spark Ave	Prairie Ave	143
Eastlake Ave	10th St E	11th St E	92
Elliott St	Munroe Ave N	Cumberland Ave N	233
Faithfull Ave	48th St E	50th St E	190
Faithfull Ave	Circle Dr	46th St E	662
Idylwyld Dr N / Circle Dr NE Ramp	Circle Dr	Idylwyld Dr N NB	95
Idylwyld Dr N NB	37th St W	39th St E	231
Idylwyld Dr N SB	39th St W	Idylwyld Dr N / Circle Dr SW Ramp	122
Idylwyld Dr N Service Rd	Idylwyld Dr N SB	Idylwyld Dr N SB	56
Irvine Ave	Bute St	Ruth St E	81
Jarvis Dr	Landa St	Ruth St E	93
King Cres	9th Ave N	Princess St	169
King St	7th Ave N	8th Ave N	80

2017 Sewer Main Lining			
Street Name	From	To	Main Length (m)
Lane E/W Between 39th St W & 40th A St W	Ave B N	Idylwyld Dr Service Rd	95
Lane E/W Between 48th St E & 50th St E	1st Ave N	Wentz Ave	155
Lane N/S Between 5th Ave N & Spadina Cres E	5th Ave N	24th St E	205
Lane N/S Between Ave D N & Ave C N	30th St W	Lane E/W Between 30th St W & 31st St W	120
Lane N/S Between Bottomley Ave & Cumberland Ave	Osler St	College Dr EB	186
Lane N/S Between King Cres & Spadina Cres E	Duke St	Duchess St	95
Lane N/S West of Northridge Dr	Northridge Dr	Northridge Dr	102
Melrose Ave SB	5th St E	7th St E	93
Melrose Ave	Young Cres	Young Cres	184
Millar Ave	Circle Dr	51st St E	1472
North of 39th St E	Idylwyld Dr Service Rd	Saskatchewan Ave	97
Northridge Dr	48th St E	50th St E	296
Northridge Dr	Circle Dr	46th St E	378
Queen St	1st Ave N	2nd Ave N	75
Ruth St E	Cumberland Ave S	Louise Ave	420
Schuyler St	Ave K S	Ave J S	104
Spadina Cres E	24th St E	25th St E	85
Spadina Cres E	End of Cul-de-Sac	Spadina Cres E	71
Spadina Cres E	Spadina Cres E	22nd St E	285
Spadina Cres W	End of Cul-de-Sac	Spadina Cres W	38
Spadina Cres W	Power Rd	11th St W	672
Taylor St E	Lorne Ave	Victoria Ave	559
Victoria Ave	5th St E	6th St E	96
Wentz Ave	47th St E	51st St E	628
William Ave	Adelaide St E	Isabella St E	376
Totals			30629

2018 Sewer Main Lining			
Street Name	From	To	Main Length (m)
10th St E	Dufferin Ave	Lansdowne Ave	94
10th St E	Clarence Ave S	Wiggins Ave S	261
10th St E	Ewart Ave	Cumberland Ave S	67
11th St E	Idylwyld Cres	McPherson Ave	179
11th St E	Clarence Ave S	McKinnon Ave S	158
12th St E	Wiggins Ave S	Ewart Ave	72
13th St E	Clarence Ave S	McKinnon Ave S	260
13th St E	Wiggins Ave S	Ewart Ave	146
14th St E	University Dr	Lansdowne Ave	265
14th St E	Clarence Ave S	McKinnon Ave S	175
14th St E	McKinnon Ave S	Munroe Ave S	172
14th St E	Munroe Ave S	Wiggins Ave S	170
Lane N/S Between University Dr and Saskatchewan Cres	14th St E	15th St E	90
15th St E	Munroe Ave S	Cumberland Ave S	326
Lane N/S Between University Dr and Saskatchewan Cres	16th St E	18th St E	
23rd St W	Ave X N	Ave W N	103
29th St W	Tomlinson Cres / Witney Ave N	Ave Y N	103
9th St E	McPherson Ave	Melrose Ave	94
9th St E	Clarence Ave S	McKinnon Ave S	86
Ave Q N	23rd St W	Bedford Rd	83
Ave R N	Rusholme Rd	Rylston Rd	101
Ave R N	29th St W	31st St W	259
Ave S N	29th St W	31st St W	353
Ave T N	Rylston Rd	31st St W	455
Ave V N	30th St W	31st St W	171
Ave W N	Rusholme Rd	Rylston Rd	94
Ave W N	29th St W	31st St W	352
Ave X N	23rd St W	Ave W N	1130
Ave Y N	Rusholme Rd	Rylston Rd	102
Clarence Ave N	Aird St	University Dr	288
Lane N/S Between University Dr and Saskatchewan Cres	18th St E	Clarence Ave	98
Clarence Ave S	12th St E	13th St E	94
Clarence Ave S	14th St E	Aird St	295
College Dr EB	Clarence Ave N	Munroe Ave N	237
College Dr EB	Munroe Ave N	Wiggins Ave N	172
Cumberland Ave S	Main St	10th St E	117
Eastlake Ave SB	8th St E	9th St E	102
Hamilton Pl	Tomlinson Cres	End	104
Hugo Ave	14th St E	15th St E	102
Idylwyld Cres	Poplar Cres	Saskatchewan Cres E / Saskatchewan Cres W	92
Lansdowne Ave	8th St E	Main St	216
Lansdowne Ave	8th St E	9th St E	92
Lansdowne Ave	Main St	10th St E	117
Lansdowne Ave	13th St E	14th St E	53
Main St EB	Clarence Ave S	Munroe Ave S	173
Main St WB	Lansdowne Ave	Clarence Ave S	318
Main St WB	Wiggins Ave S	Ewart Ave	144
McKinnon Ave S	Main St	10th St E	86
McMillan Ave	29th St W	Trotter Cres	88
McPherson Ave	10th St E	11th St E	117
Melrose Ave NB	8th St E WB	9th St E	102
Montreal Ave N	23rd St W	Bedford Rd	86
Osler St	Clarence Ave N	Wiggins Ave N	262
Poplar Cres	8th St W	Idylwyld Cres	216
Rusholme Rd	Witney Ave N	Ave W N	308
Rusholme Rd	Ave V N	Ave U N	111
Saskatchewan Cres E	Saskatchewan Cres W	McPherson Ave	39

2018 Sewer Main Lining			
Street Name	From	To	Main Length (m)
Temperance St	16th St E	Clarence Ave N	241
Temperance St	Wiggins Ave N	Cumberland Ave N	127
Tomlinson Cres	Hamilton Pl	Ave X N	100
University Dr EB	Clarence Ave N	McKinnon Ave N / University Dr	95
Vancouver Ave N	23rd St W	Rusholme Rd	389
Winnipeg Ave N	23rd St W	Ottawa Ave N	78
Witney Ave N	22nd St W	23rd St W	101
Idylwyld Pl	Idylwyld Cres	10th St E	97
Across Idylwyld Dr S	8th St / Lorne Ave / Idylwyld Dr S NW Ramp	Main St	76
Albert Ave	Colony St	Temperance St	62
Lane E/W Bewteen Aird St and Temperance St	Munroe Ave N	Wiggins Ave	155
Lane N/S Between Bottomley Ave and Cumberland Ave	14th St E	Osler St	558
Lane N/S Between University Dr and Temperance St	14th St E	17th St E	482
Lansdowne Ave	12th St E	14th St E	169
Totals			12880

2019 Sewer Main Lining			
Street Name	From	To	Main Length (m)
15th St W	Dead End	Weldon Ave	101
17th St W	Ave M S	Ave L S	103
1st St E	Dufferin Ave	Lansdowne Ave	94
1st St E	McKinnon Ave S	Munroe Ave S	193
2nd St E	Broadway Ave	Lansdowne Ave	316
3rd St E	Dufferin Ave	McKinnon Ave S	594
4th St E	Broadway Ave	Dufferin Ave	188
4th St E	Clarence Ave S	Munroe Ave S	269
5th St E	Dufferin Ave	Munroe Ave S	676
6th St E	Broadway Ave	Albert Ave	566
6th St E	McKinnon Ave S	Munroe Ave S	193
7th St E	Broadway Ave	Cairns Ave	1151
8th St E EB	Broadway Ave	Lansdowne Ave	268
8th St E EB	Clarence Ave S	Wiggins Ave S	371
Ave I S	11th St W	12th St W	141
Ave J S	11th St W	16th St W	579
Ave K S	11th St W	12th St W	92
Ave L S	Schuyler St	11th St W	426
Ave L S	12th St W	13th St W	55
Ave M S	13th St W	17th St W	307
Ave N S	Wellington St	Schuyler St	211
Ave N S	Dudley St	11th St W	215
Ave N S	15th St W	16th St W	86
Ave O S	Wellington St	Schuyler St	105
Ave O S	Dudley St	11th St W	109
Ave P S	11th St W	12th St W	94
Cairns Ave	1st St E	7th St E	404
Clarence Ave S	3rd St E	4th St E	102
Clarence Ave S	5th St E	6th St E	27
Clarence Ave S	7th St E	8th St E	90
Dufferin Ave	2nd St E	3rd St E	102
Edson St	Jasper Ave S	Portage Ave	367
Jasper Ave S	Melville St	Edson St	196
McKinnon Ave S	8th St E WB	9th St E	61
Melville St	Jasper Ave S	Portage Ave	80
Munroe Ave S	Taylor St E	3rd St E	252
Munroe Ave S	5th St E	7th St E	204
Jasper Ave S	Edson St	Portage Ave	73
Weldon Ave	13th St W	15th St W	134
Lane E/W Between 8th St E and 9th St E	Clarence Ave S	Wiggins Ave S	402
Totals			9997

	Main Length (m)
2017	30629
2018	12880
2019	9997
2017-2019 Totals	53506

Projected Water & Sewer Preservation - Sanitary Main Lining





