2024 Annual River Crossing Report

Environment Act Licences No. 2684 RRR, 2669 E RR & 2716 RR

Prepared for:

Environment and Climate Change

File No. 1071.10, 53.10, 1069.10

April 2025

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1. Background

Environment Act Licences for the City of Winnipeg's three sewage treatment plants (No.: 2684 RRR; 2669 E RR; and 2716 RR) state that an annual report must be submitted for the ongoing monitoring of new and existing pipes that transport wastewater via river crossings in the City of Winnipeg.

There are 56 river crossing assets at 42 sites in Winnipeg. This includes 19 gravity pipes, 20 force main pipes and 17 siphons.

1.1 River Crossing Inventory

The River Crossing Inventory is summarized below and each asset is detailed in the *Asset Cards* in Appendix A. Data consolidation work is a task in the *2025 Asset Management Plan (AMP)* development as outlined in Section 3.2. The current *Asset Cards* may be lacking details, which will be identified and addressed once the *AMP* is complete.

Table 1: River Crossing Asset Inventory

Site ID	Asset Number	Asset Name	Treatment Plant Licence	Watercourse
1	S-MA70028006	West Perimeter Bridge	WEWPCC	ASSINIBOINE RIVER
2	S-MA70016410	Community Row	WEWPCC	ASSINIBOINE RIVER
2	S-MA70016408	Community Row	WEWPCC	ASSINIBOINE RIVER
3	S-MA70031733	Heritage Park	WEWPCC	STURGEON CREEK
4	S-MA70016531	Windham Road	WEWPCC	STURGEON CREEK
4	S-MA70016527	Windham Road	WEWPCC	STURGEON CREEK
5	S-MA70016345	Assiniboine Park Zoo	WEWPCC	ASSINIBOINE RIVER
6	S-MA70044144	Ash Street	NEWPCC	ASSINIBOINE RIVER
6	S-MA70044147	Ash Street	NEWPCC	ASSINIBOINE RIVER
7	S-MA70058265	Bridge of the Old Forks	NEWPCC	ASSINIBOINE RIVER
7	S-MA70058225	Bridge of the Old Forks	NEWPCC	ASSINIBOINE RIVER
8	S-MA00017097	Whellams Lane	NEWPCC	RED RIVER
8	S-MA00017096	Whellams Lane	NEWPCC	RED RIVER
8	TBD	Whellams Lane	NEWPCC	RED RIVER
9	*S-MA70021128	Frasers Grove Park	NEWPCC	RED RIVER

9	S-MA00017639	Frasers Grove Park	NEWPCC	RED RIVER
9	TBD	Frasers Grove Park	NEWPCC	RED RIVER
10	S-MA70017147	Munroe Avenue	NEWPCC	RED RIVER
10	S-MA70017149	Munroe Avenue	NEWPCC	RED RIVER
11	S-MA70062897	Hart Avenue	NEWPCC	RED RIVER
11	S-MA70062902	Hart Avenue	NEWPCC	RED RIVER
12	S-MA70046417	Montcalm Avenue	NEWPCC	RED RIVER
12	S-MA70046432	Montcalm Avenue	NEWPCC	RED RIVER
13	S-MA70050831	Provencher Bridge	NEWPCC	RED RIVER
13	S-MA70050829	Provencher Bridge	NEWPCC	RED RIVER
14	S-MA70057885	Norwood Bridge	NEWPCC	RED RIVER
15	S-MA50017754	St Vital Bridge	SEWPCC	RED RIVER
16	S-MA70003330	Fort Garry Cemetery	SEWPCC	RED RIVER
16	S-MA70093899	Crescent Drive	SEWPCC	RED RIVER
17	S-MA70087290	Fort Garry Bridge	SEWPCC	RED RIVER
17	S-MA70053063	Fort Garry Bridge	SEWPCC	RED RIVER
18	S-MA70031937	Pembina/Ducharme		BEAUJOLAIS COULEE
19	S-MA60023233	Des Trappistes		WESTERNDORF COULEE
20	*S-MA70031433	Portage Avenue	NEWPCC	OMANDS CREEK
20	TBD	Portage Avenue	NEWPCC	OMANDS CREEK
21	S-MA20010800	PRIVATE: Maroons		OMANDS CREEK
22	S-MA20009764	St Matthews Avenue	NEWPCC	OMANDS CREEK
23	S-MA20009857	Ellice Avenue	NEWPCC	OMANDS CREEK
24	S-MA20009956	Sargent Avenue	NEWPCC	OMANDS CREEK
25	S-MA20010426	Wellington Avenue	NEWPCC	OMANDS CREEK
26	S-MA20011761	McCrossen Street	NEWPCC	OMANDS CREEK
27	S-MA20011765	St James Street	NEWPCC	OMANDS CREEK
28	S-MA20011649	Border Street	NEWPCC	OMANDS CREEK
29	S-MA20007212	King Edward Street	NEWPCC	OMANDS CREEK
30	S-MA20007078	Sherwin Road	NEWPCC	OMANDS CREEK

31	S-MA20007112	Stevenson Road	NEWPCC	OMANDS CREEK
32	S-MA70016729	Deer Lodge Place	NEWPCC	TRURO CREEK
33	S-MA20007887	Albany Street	NEWPCC	TRURO CREEK
36	S-MA70042549	Archibald Street	NEWPCC	SEINE RIVER
37	S-MA70032063	Rothesay Street	NEWPCC	BUNNS CREEK
38	S-MA50009027	Abinojii Mikanah	SEWPCC	SEINE RIVER
39	S-MA50009013	Abinojii Mikanah/CPR tracks	SEWPCC	NAVIN DRAIN
40	S-MA50008068	Edgemont/ Abinojii Mikanah	SEWPCC	NAVIN DRAIN
41	S-MA70013886	Lagimodiere/ Abinojii Mikanah	SEWPCC	NAVIN DRAIN
42	S-MA70045660	Warde Avenue	SEWPCC	SEINE RIVER
43	S-MA70087417	Floodway		FLOODWAY
TBD: Newly constructed assets are given asset numbers once entered into GIS * Abandoned in place				

1.2 2006 Desktop Assessment

The *2006 Desktop Assessment* for river crossings was in response to provincial requirements to update the City's sewage treatment plant licences. This included identifying the pipes that cross any watercourse and documenting of the following attributes:

- Location (including receiving water body)
- Type of crossing (gravity, force main or siphon)
- Crossing material, age, size, and other physical attributes
- Identification of the riverbank environment surrounding the pipeline

The purpose was to categorize all sites based on probability and consequence of asset failure. The assessment was done with limited physical data and was based on knowledge of how pipeline materials break down over time, as well as how they interact with the riverbank environment.

A risk matrix was created to prioritize pipes for physical condition assessments, (see Figure 1) which would then initiate future inspection, repair, maintenance and/or replacement of the assets.

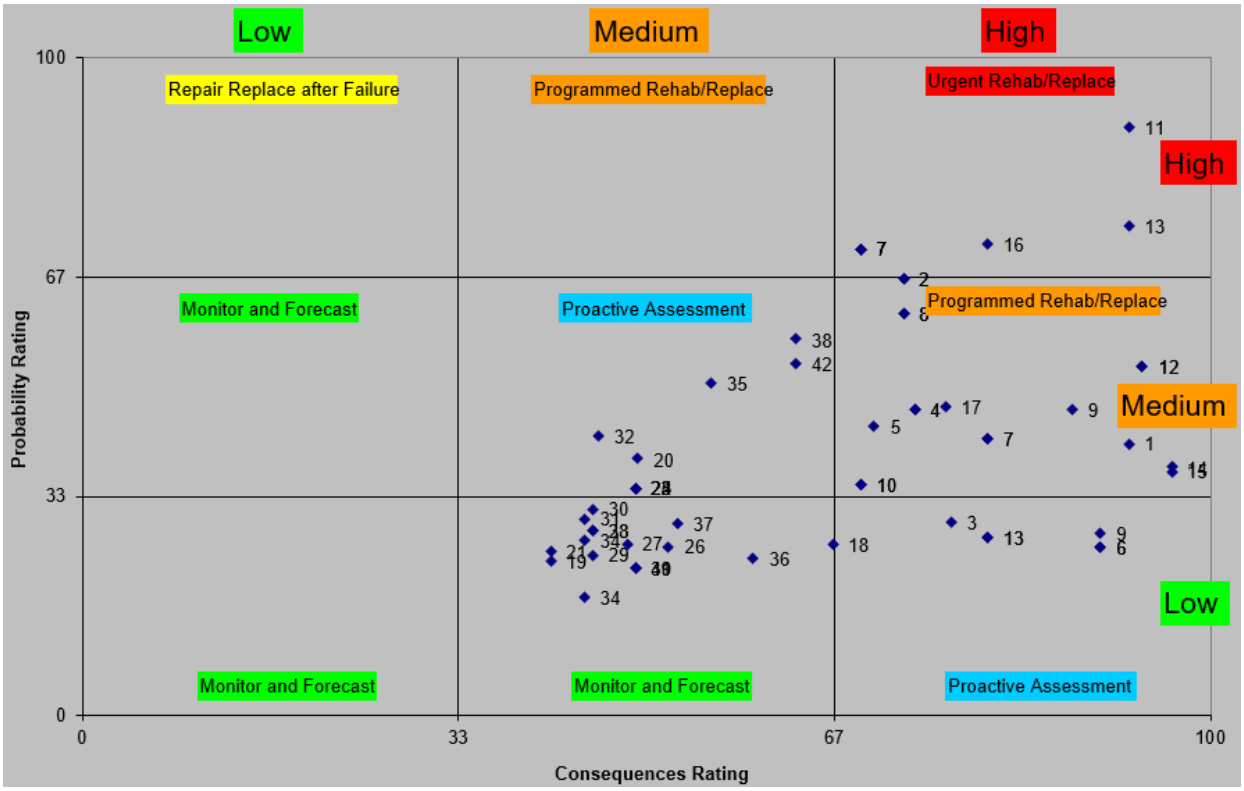


Figure 1: Wastewater Sewer River Crossing Inventory: 2006 Risk Ratings

1.3 Inspection Timeline Criteria

The following timelines are used to help program inspections, re-inspections and rehabilitation work in the river crossing program.

- Inspect new non-steel pipes in 30 years
- Inspect new steel pipes in 20 years
- Inspect fully rehabilitated pipes in 30 years (all pipes rehabilitated with liners are no longer considered steel or concrete once lined)
- Rehabilitate pipes with less than 6 years of remaining life
- Re-inspect pipes at the midpoint of its estimated remaining life (i.e. in 11 years if pipe has 22 years of life remaining).
- Maximum time before re-inspection is 20 years for Structural Performance Grades 1 and 2

1.4 2012-2024 High Risk River Crossing Condition Assessment Program

Three four-year contracts were needed to assess the river crossing asset inventory that met inspection criteria. This length of time was required as the following steps were necessary:

1. Hire a Consultant to plan, administer and analyze the condition assessment program.
2. Assess what technology was best suited for each crossing site.
3. Design and complete physical modifications to the pipeline to allow inspection tools to enter the pipeline.
4. Hire technology specific specialized non-local contractors to complete the inspections.
5. Coordinate shutdowns with operations in available outage windows.
6. Analyze and present the data, including renewal and replacement suggestions.
7. Schedule renewals and replacements into the capital budget.

1.5 Assessment Technologies

No single solution exists for developing a monitoring plan for all the river crossings. Due to their unique properties, each crossing must be evaluated independently based on possible failure modes to develop a practical and cost-effective plan to mitigate the risk of pipe failure. Factors considered include: pipe material and age, construction/ installation method, geodetic elevation, location relative to the riverbank, condition of the riverbank, and other environmental concerns.

Inspection technologies available differ depending on crossing type and material of construction. The following inspection methods or technologies are used in the City's *River Crossing Condition Assessment Program*.

1.5.1 CCTV Monitoring

Closed-circuit television (CCTV) is a cost-effective means of inspecting gravity crossings. A video camera is sent through the sewer, recording the visual condition of the asset, along its entire length.

1.5.2 SONAR Inspection

River bottom and internal SONAR inspections can identify "ovality", or pipe deformation, major structural defects as well as debris levels in the sewer. River

bottom scans show the general position of the pipe on the river bed and any major shifting or scouring around the pipeline.

1.5.3 Remote Field Eddy Current Inspection

Remote Field Eddy Current (RFEC) inspections can detect and quantify defects and thickness variations in ferromagnetic materials by sensing distortions caused by those defects/variations relative to a baseline magnetic field that the tool induces in the material. RFEC technologies are currently the best option available for undertaking continuous wall condition inspections of ferromagnetic river crossing pipes, where they can feasibly be deployed.

1.5.4 Acoustic Leak Detection

Free swimming recording devices or tethered drogues are sent through the active pipeline to detect locations of acoustic anomalies that may indicate leaks in a pipeline.

1.5.5 Material Testing

Samples are taken from pipelines to determine various physical properties that can indicate deterioration or fit for purpose. This type of analysis has been performed on plastic pipes where other inspection technologies are not suitable.

1.5.6 Pressure Testing

A low-pressure column of water is connected to the pipeline to determine the rate of water loss, if any, which would indicate a leak.

1.5.7 Ultrasonic Thickness Testing

A handheld ultrasonic meter is used on exposed portions of the pipe to measure the pipe wall thickness at predetermined locations to determine if internal corrosion or abrasion is occurring.

1.6 Condition Grade

With known pipe condition data, a condition grade from 1 to 5 is assigned to each asset with 1 being new and 5 being in a state of failure. A condition grade of 2 or less does not require action, a condition grade of 3 warrants an elevated level of monitoring, a condition grade of 4 should be elevated to short term repair budgeting and grade of 5 should be addressed immediately. A description of gravity and pressure grades are provided below in Table 2.

Table 2: Condition Grade Ramifications for Gravity and Pressure Pipe

GRADE	GRAVITY SEWER IMPLICATION	PRESSURE PIPE IMPLICATION
5	Collapsed or collapse imminent	Failed or in a state of incipient failure, hydrostatic integrity compromised
4	Collapse likely in the near future	Structural failure likely in short term, hydrostatic integrity may be compromised
3	Collapse unlikely in the near future but further deterioration likely	Deterioration processes will accelerate in near future, loss of hydrostatic integrity unlikely but elevated risk
2	Minimal collapse risk in the short term but potential for further deterioration	Deterioration processes active, minimal potential for structural failure or loss of hydrostatic integrity in short term
1	New asset or no active deterioration processes present	New asset or no active deterioration processes present

2. 2024 Activities

2.1 Fort Garry-St Vital Siphons

During a planned condition assessment in November 2023, both wastewater pipes crossing the Red River at the Fort Garry bridge were found to have significant deterioration. One pipe had failed and was leaking wastewater into the Red River. This pipe was immediately taken out of service. The remaining pipe was found to be in poor condition, and as such, the City began immediately planning the replacement of both pipes.

The initial assessment, design and contract administration of a wastewater bypass system was assigned to AECOM Canada Ltd. (AECOM). Due to the emergency nature of the situation, this was done as a scope change to their existing condition assessment contract.

With the need to have the bypass system in place before spring melt and wet weather flows, the department single sourced procurement, construction and operation of the bypass assembly to Nelson River Construction (Nelson River) on February 1, 2024.

While the temporary bypass system was being assembled, the remaining pipe failed in February 2024. The bypass assembly was in place and the first pump was operational on February 17, 2024 and the 2nd pump was operational on February 21, 2025. Detailed design is ongoing for the permanent replacement of both pipes. Construction of the new river crossings is expected to start in September 2025 with an estimated in-service date of March 1, 2026.

2.2 High Risk River Crossings – Phase Three Condition Assessment (HRRC 3)

The final report for *HRRC 3* was submitted by AECOM in October 2024.

The report assessed five wastewater river crossing sites. Four of which were in good condition and one, the Fort Garry-St. Vital site, had failed. AECOM evaluated various rehabilitation treatments that are detailed in Appendix A. Table 3 below shows the recommended re-inspection and rehabilitation schedule, including costs for the four sites in the *HRRC 3* report.

Table 3: Proposed Work, Costs and Timing

Crossing	Nominal Diameter (mm)	Estimated Replacement Cost (2024)	Proposed Work	Immediate	5 year Capital Program	10 year Capital Program	>10 Year Capital
Old Forts Bridge Force Mains	500/600	$ 3,850,000	Re-inspect			$ 279,000	
			Rehabilitation/Replacement				
Provencher Bridge Force Mains	300/300	$ 4,704,000	Re-inspect			$205,000	
			Rehabilitation/Replacement		$ 90,000		
Norwood Bridge Force Main	500	$ 2,688,000	Re-inspect		$ 49,000		
			Rehabilitation/Replacement		$ 562,500		
Fort Garry-St. Vital Siphons Crossing	700/800	$ 21,400,000	Re-inspect				
			Rehabilitation/Replacement	$21,400,000			

2.2.1 Program Conclusion Remarks:

Proactive condition assessment programs (*HRRC* and *Sewer Condition Assessment Program*) have now assessed all wastewater infrastructure that could compromise the water courses within the City. The state of the river crossing infrastructure is at a decreased level of risk as compared to the state in 2006 when the initial desktop assessment was completed.

Since the *HRRC Program* started in 2012, 11 of the river crossing assets have been identified as being in a degraded condition and subsequently rehabilitated with full segment structural linings or have been replaced as full segment renewals, or replaced in new locations. Each of the assets identified as being feasible for rehabilitation by relining as opposed to replacement have resulted in savings in the order of $5-10 million or more per asset.

Assessments have initiated a number of urgent/emergency repairs to prevent imminent failures from having any impact on the environment. In the case of the

most recent failure of the Fort Garry-St. Vital siphons, expedited emergency repairs greatly reduced the impact of the failure.

2.3 Risk Matrix Update

In December of 2024, AECOM updated the 2006 Risk Matrix to include pipe condition data obtained through inspections. Figure 2 below shows the updated 2024 Risk Matrix. Points in the graph below refer to crossing sites as listed in Table 1.

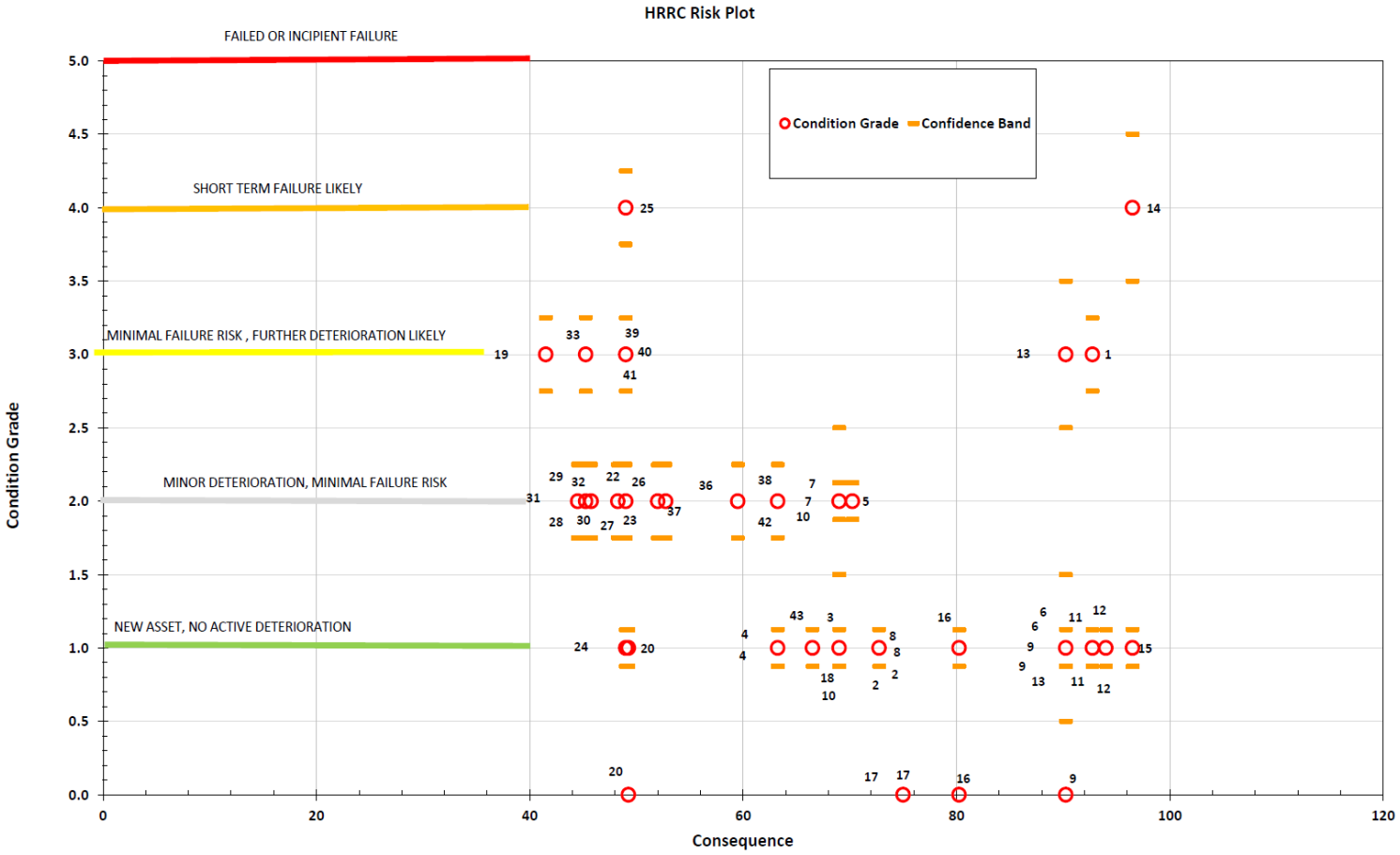


Figure 2: 2024 High Risk River Crossing Risk Matrix

2.4 Operations Monitoring

Weekly visual inspections of force mains and siphons are carried out from March to November and monthly from December to February. This frequency is based on the potential for riverbank movements to be greater in the months with river water level fluctuations and in snow/rain melt events. Annual opening and closing of isolation valves are done to ensure proper operation. Details are provided in Appendix A.

3. 2025 Planned Program Activities

3.1 Fort Garry-St Vital Siphon Crossing

Construction of the new river crossings is expected to start in September 2025 with an estimated in-service date of March 1, 2026.

3.2 Asset Management Plan Development

The City is in the process of developing an *Asset Management Plan (AMP)* for the City's wastewater river crossings. An *AMP* for river crossings is a strategic document that outlines how the river crossing assets will be managed, maintained, and improved over their lifecycle. Its main purpose is to ensure the crossings remains safe, reliable, and cost-effective, while meeting regulatory, environmental, and performance goals. The plan will be finalized in Q4 2025 and will be appended to the *2025 Annual River Crossing Report*.

3.3 Operations Monitoring

Weekly visual inspections of force mains and siphons will be carried out from March to November and monthly from December to February.

Annual opening and closing of isolation valves will be done to ensure proper operation. As part of the *AMP*, details on the condition of all valves will be consolidated and a plan created for replacement of deficient assets.

4. Capital Plan

One of the deliverables of the *AMP* is a *20-Year Activity Plan* for maintaining current level of service. This will include activities such as monitoring, repair/replace on failure, proactive condition assessments, routine preventative maintenance and programmed rehabilitation/replacement.

The Provencher Bridge, Norwood Bridge, Old Crescent Drive and West Perimeter sites will be rehabilitated in the 5-year window as detailed in Appendix A.

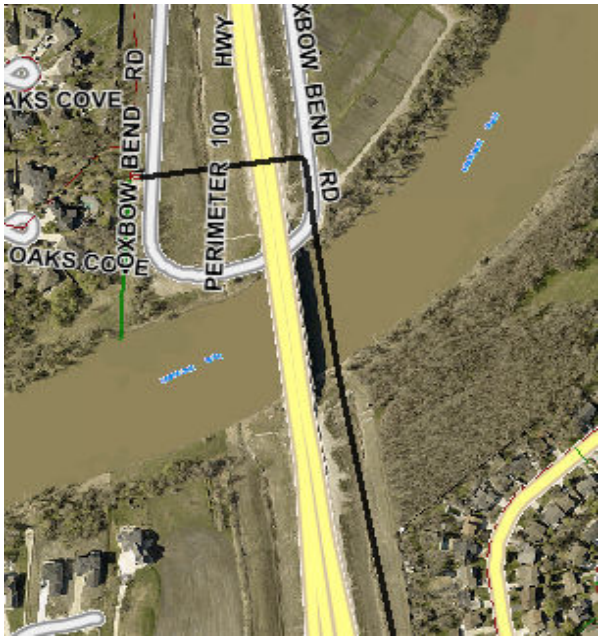
Geotechnical work, including bank regrading and armoring, originally intended for 2025, has been delayed as program funds were re-allocated to complete the Fort Garry-St. Vital Siphon replacement project. This work has been rescheduled to be designed in 2026 and constructed in 2027.

APPENDIX A: RIVER CROSSING ASSET INVENTORY

Site Name: WEST PERIMETER BRIDGE Updated: 3/31/2025

Overview

Asset Name:	West Perimeter Bridge
Alternative Site Name(s):	
Asset Number:	S-MA70028006
Water Body:	ASSINIBOINE RIVER
Licence:	WEWPCC
Pipe Size:	400
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	River bank and river bottom
Install Date:	2001
Remaining Service Life (as of 2024)	>50
Estimated Replacement Cost (2024):	2,072,000



Maintenance and Inspection Activities

Last Condition Inspection:	2023
Next Condition Inspection:	2034
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	3
Consequence Rating	92.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: WESTWOOD / COMMUNITY ROW /ASSINIBOINE

Updated: 3/31/2025

Overview

Asset Name:	Community Row
Alternative Asset Name(s):	
Asset Number:	S-MA70016410
Water Body:	ASSINIBOINE RIVER
Licence:	WEWPCC
Pipe Size:	500
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	River bank and river bottom
Install Date:	1971
Remaining Service Life (as of 2024)	----
Estimated Replacement Cost (2016):	4,500,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014 (RF, CCTV)
Next Condition Inspection:	2045
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Inoperable Valves

Risk Assessment

Condition Grade	1
Consequence Rating	72.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 15,000.00		Slope regrading and armoring
Re-Inspection			

Comments:

Full segment liner completed in 2015.

Site Name: WESTWOOD / COMMUNITY ROW /ASSINIBOINE

Updated: 3/31/2025

Overview

Asset Name:	Community Row
Alternative Asset Name(s):	
Asset Number:	S-MA70016408
Water Body:	ASSINIBOINE RIVER
Licence:	WEWPCC
Pipe Size:	600
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	River bank and river bottom
Install Date:	1971
Remaining Service Life (as of 2024)	----
Estimated Replacement Cost (2016):	5,100,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014 (RF, CCTV)
Next Condition Inspection:	2045
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Inoperable Valves

Risk Assessment

Condition Grade	1
Consequence Rating	72.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 15,000.00		Slope regrading and armoring
Re-Inspection			

Comments:

Full segment liner completed in 2015.

Site Name: HERITAGE / PARKDALE / HERITAGE PARK Updated: 4/01/2025

Overview

Asset Name:	Heritage Park
Alternative Asset Name(s):	
Asset Number:	S-MA70031733
Water Body:	STURGEON CREEK
Licence:	WEWPCC
Pipe Size:	250
Material:	PVC
Sewer Main Type:	FORCE MAIN
Location:	Creek bank and Creek bottom
Install Date:	1989
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2020):	1,300,000

Maintenance and Inspection Activities

Last Condition Inspection:	2018
Next Condition Inspection:	2038
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	1
Consequence Rating	66.5

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 66,000.00		Slope regrading and armoring
Re-Inspection		$ 21,000.00	Leak Test

Comments:

Site Name: WINDHAM Updated: 4/01/2025

Overview

Asset Name:	Windham Road
Alternative Asset Name(s):	
Asset Number:	S-MA70016531
Water Body:	STURGEON CREEK
Licence:	WEWPCC
Pipe Size:	450
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	Creek bank and creek bottom
Install Date:	1964
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2016):	3,500,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014 (RF, CCTV)
Next Condition Inspection:	2049
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	63.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 40,000.00		Slope regrading and toe armoring
Re-Inspection			

Comments:

Full segment liner completed in 2019.

Site Name: WINDHAM Updated: 4/01/2025

Overview

Asset Name:	Windham Road
Alternative Asset Name(s):	
Asset Number:	S-MA70016527
Water Body:	STURGEON CREEK
Licence:	WEWPCC
Pipe Size:	450
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	Creek bank and Creek bottom
Install Date:	1964
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2016):	3,500,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014
Next Condition Inspection:	2049
Visual Inspection Schedule:	Weekly (March-November) and monthly
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	63.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 40,000.00		Slope regrading and toe armoring
Re-Inspection			

Comments:

Full Segment Liner completed in 2019.

Site Name: ASSINIBOINE ZOO Updated: 4/01/2025

Overview

Asset Name:	Assiniboine Park Zoo
Alternative Asset Name(s):	
Asset Number:	S-MA70016345
Water Body:	ASSINIBOINE RIVER
Licence:	WEWPCC
Pipe Size:	218
Material:	STEEL
Sewer Main Type:	SEWERMAIN
Location:	River bank and river bottom
Install Date:	1967
Remaining Service Life (as of 2024)	57
Estimated Replacement Cost (2016):	1,000,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014
Next Condition Inspection:	2036
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	2
Consequence Rating	70.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 278,000.00	Remote Field Technology

Comments:

Site Name: ASH Updated: 4/01/2025

Overview

Asset Name:	Ash Street
Alternative Asset Name(s):	
Asset Number:	S-MA70044144
Water Body:	ASSINIBOINE RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	2003
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2003-ACCEPTANCE
Next Condition Inspection:	2033
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	90.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 9,000.00	Sonar

Comments:

Site Name: ASH Updated: 4/01/2025

Overview

Asset Name:	Ash Street
Alternative Asset Name(s):	
Asset Number:	S-MA70044147
Water Body:	ASSINIBOINE RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	2003
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2003-ACCEPTANCE
Next Condition Inspection:	2033
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	90.25

Planned Capital Works

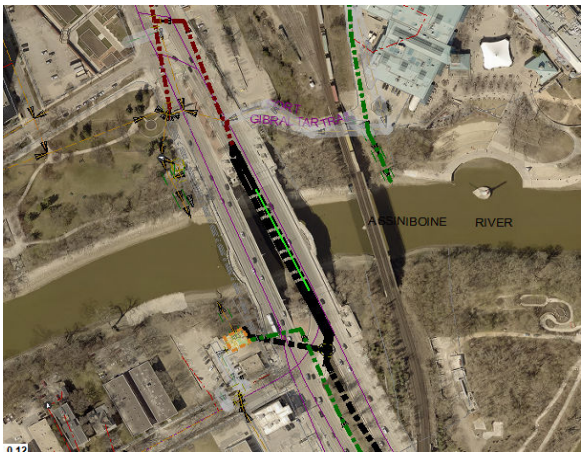
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 9,000.00	Sonar

Comments:

Site Name: MAIN STREET BRIDGE Updated: 4/01/2025

Overview

Asset Name:	Bridge of the Old Forks
Alternative Asset Name(s):	
Asset Number:	S-MA70058265
Water Body:	ASSINIBOINE RIVER
Licence:	NEWPCC
Pipe Size:	500
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	Suspended inside Northbound span of the
Install Date:	1996
Remaining Service Life (as of 2024)	>50
Estimated Replacement Cost (2024):	3,850,000



Maintenance and Inspection Activities

Last Condition Inspection:	2022
Next Condition Inspection:	2032
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	2
Consequence Rating	69

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 279,000.00	Remote Field Technology, Ultrasonic Testing

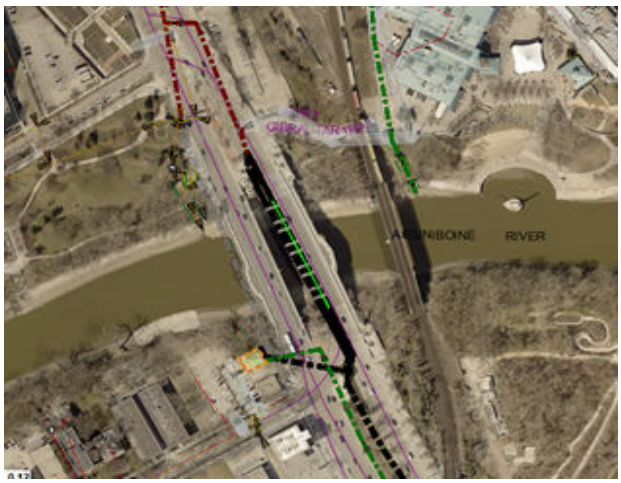
Comments:

Inspection and condition assessment of the Old Forts Bridge Force Mains, suggest that the pipe are in good condition.

Site Name: MAIN STREET BRIDGE Updated: 4/1/2025

Overview

Asset Name:	Bridge of the Old Forks
Alternative Asset Name(s):	
Asset Number:	S-MA70058225
Water Body:	ASSINIBOINE RIVER
Licence:	NEWPCC
Pipe Size:	600
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	Suspended inside Northbound span of the
Install Date:	1996
Remaining Service Life (as of 2024)	>50
Estimated Replacement Cost (2024):	3,850,000



Maintenance and Inspection Activities

Last Condition Inspection:	2022
Next Condition Inspection:	2032
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	2
Consequence Rating	69

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 279,000.00	Remote Field Technology, Ultrasonic Testing

Comments:

condition.
The lowest reported wall thickness was 88% RW.

Site Name: WHELLAMS LANE Updated: 4/1/25

Overview

Asset Name:	Whellams Lane
Alternative Asset Name(s):	
Asset Number:	S-MA00017097
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	500
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	Riverbed
Install Date:	1970
Remaining Service Life (as of 2024)	10
Estimated Replacement Cost (2016):	5,100,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014 (RF, CCTV)
Next Condition Inspection:	2054
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Inoperable Valves

Risk Assessment

Condition Grade	1
Consequence Rating	72.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 77,000.00		Slope regrading and armoring
Re-Inspection			

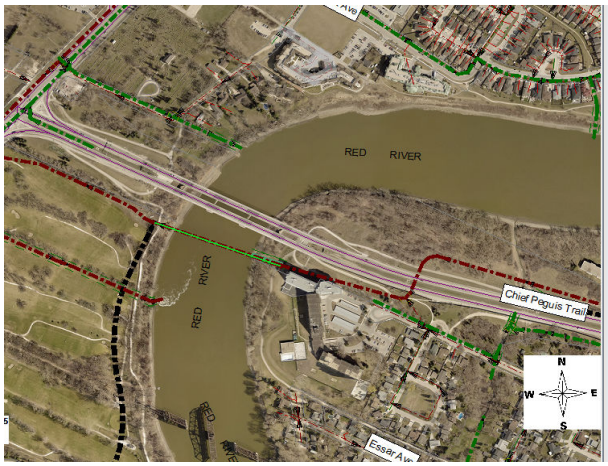
Comments:

Full segment liner completed in 2024.

Site Name: WHELLAMS LANE Updated: 4/1/25

Overview

Asset Name:	Whellams Lane
Alternative Asset Name(s):	
Asset Number:	S-MA00017096
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	800
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	Riverbed
Install Date:	1970
Remaining Service Life (as of 2024)	13
Estimated Replacement Cost (2016):	7,300,000



Maintenance and Inspection Activities

Last Condition Inspection:	2013 (CCTV), 2014 (RF)
Next Condition Inspection:	2054
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Inoperable Valves

Risk Assessment

Condition Grade	1
Consequence Rating	72.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 77,000.00		Slope regrading and armoring
Re-Inspection			

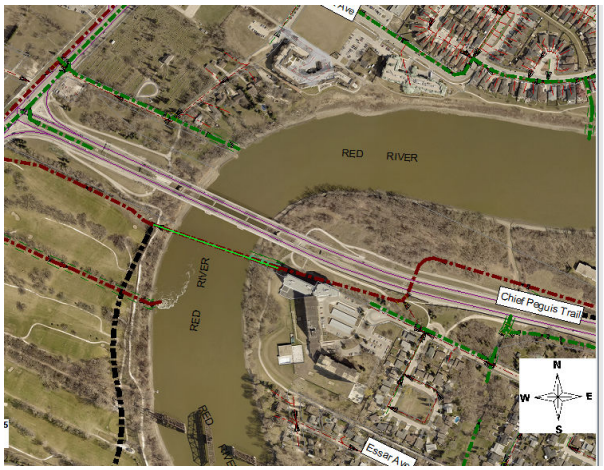
Comments:

Full segment liner completed in 2024.

Site Name: WHELLAMS LANE Updated: 4/1/25

Overview

Asset Name:	Whellams Lane
Alternative Asset Name(s):	
Asset Number:	TBD
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	1200
Material:	CONCRETE
Sewer Main Type:	INTERCEPTOR
Location:	
Install Date:	2018
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2018-ACCEPTANCE
Next Condition Inspection:	2048
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Quarterly

Risk Assessment

Condition Grade	1
Consequence Rating	72.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 77,000.00		Slope regrading and toe armoring
Re-Inspection			

Comments:

Site Name: FRASERS GROVE PARK Updated: 4/1/25

Overview

Asset Name:	Frasers Grove Park
Alternative Asset Name(s):	NEWTON
Asset Number:	S-MA70021128
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	350
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	
Install Date:	1979
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2016):	4,000,000

Maintenance and Inspection Activities

Last Condition Inspection:	2018
Next Condition Inspection:	N/A
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	0
Consequence Rating	90.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 33,000.00		Toe armoring
Re-Inspection			

Comments:

Abandoned in 2023.

Site Name: FRASERS GROVE PARK Updated: 4/1/2025

Overview

Asset Name:	Frasers Grove Park
Alternative Asset Name(s):	NEWTON
Asset Number:	S-MA00017639
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	350
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	1959
Remaining Service Life (as of 2024)	132
Estimated Replacement Cost (2016):	4,000,000

Maintenance and Inspection Activities

Last Condition Inspection:	2014
Next Condition Inspection:	2034
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	90.25

Planned Capital Works

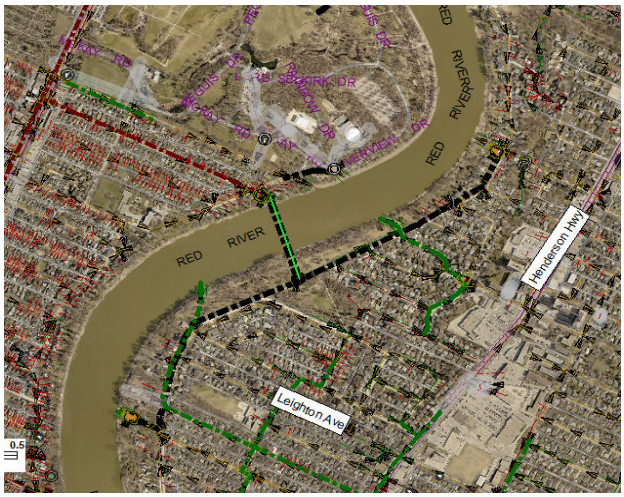
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 33,000.00		Toe armoring
Re-Inspection		$ 402,000.00	Remote Field Technology

Comments:

Site Name: FRASERS GROVE PARK Updated: 4/1/2025

Overview

Asset Name:	Frasers Grove Park
Alternative Asset Name(s):	NEWTON
Asset Number:	TBD
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	375
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Bedrock outside of riverbank failure zone
Install Date:	2023
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2023-ACCEPTANCE
Next Condition Inspection:	2053
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	90.25

Planned Capital Works

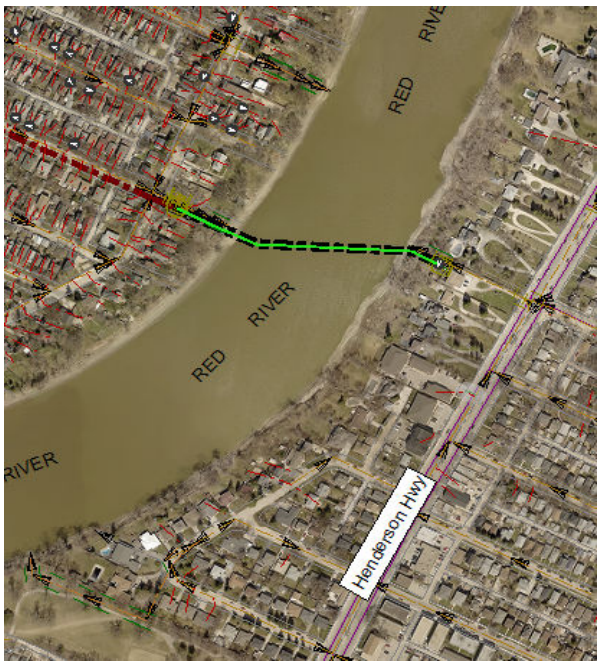
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: MUNROE Updated: 4/1/2025

Overview

Asset Name:	Munroe Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70017147
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	Concrete filled trench
Install Date:	1964
Remaining Service Life (as of 2024)	16
Estimated Replacement Cost (2016):	3,800,000



Maintenance and Inspection Activities

Last Condition Inspection:	2014
Next Condition Inspection:	2054
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Inoperable Valves

Risk Assessment

Condition Grade	1
Consequence Rating	69

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 40,000.00		Slope regrading and toe armoring
Re-Inspection			

Comments:

Full segment liner completed in 2024.

Site Name: MUNROE Updated: 4/1/2025

Overview

Asset Name:	Munroe Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70017149
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	450
Material:	STEEL
Sewer Main Type:	INTERCEPTOR
Location:	Concrete filled trench
Install Date:	1964
Remaining Service Life (as of 2024)	55
Estimated Replacement Cost (2016):	5,100,000

Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2014
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Inoperable Valves

Risk Assessment

Condition Grade	2
Consequence Rating	69

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 40,000.00		Slope regrading and toe armoring
Re-Inspection		$ 383,000.00	Remote Field Technology

Comments:

Site Name: HART Updated: 4/1/2025

Overview

Asset Name:	Hart Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70062897
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	2007
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2007-ACCEPTANCE
Next Condition Inspection:	2037
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	92.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: HART Updated: 4/1/2025

Overview

Asset Name:	Hart Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70062902
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	2007
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2007-ACCEPTANCE
Next Condition Inspection:	2037
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	92.75

Planned Capital Works

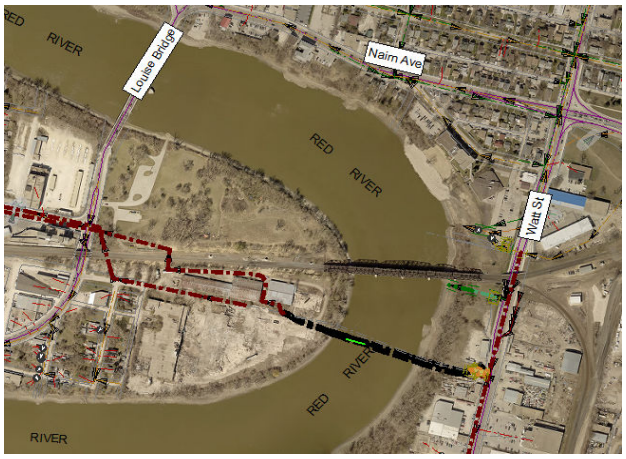
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: MONTCALM Updated: 4/1/2025

Overview

Asset Name:	Montcalm Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70046417
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	600
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	2004
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2004-ACCEPTANCE
Next Condition Inspection:	2034
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	94

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 18,000.00	Sonar

Comments:

Site Name: MONTCALM Updated: 4/1/2025

Overview

Asset Name:	Montcalm Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70046432
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	600
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	Riverbank and Riverbed
Install Date:	2004
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2004-ACCEPTANCE
Next Condition Inspection:	2034
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	94

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection		$ 18,000.00	Sonar

Comments:

Site Name: PROVENCHER BRIDGE Updated: 4/1/2025

Overview

Asset Name:	Provencher Bridge
Alternative Asset Name(s):	
Asset Number:	S-MA70050831
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	Suspended inside Eastbound span of the Provencher Bridge
Install Date:	2005
Remaining Service Life (as of 2024)	>50
Estimated Replacement Cost (2024):	4,704,000

Maintenance and Inspection Activities

Last Condition Inspection:	2022
Next Condition Inspection:	2042
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	3
Consequence Rating	90.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation	$ 90,000.00		Replace pipe hangers, rollers, and cladding
Replacement			
Bank Geotechnical			
Re-Inspection		$ 205,000.00	Remote Field Technology, Ultrasonic Test

Comments:
Inspection and condition assessment of the Provencher Bridge Force Mains suggest that the pipe are in good condition. The lowest reported wall thickness was 95% RW.

Asset Number: S-MA70050829
Site Name: PROVENCHER BRIDGE Updated: 4/1/2025

Overview

Asset Name:	Provencher Bridge
Alternative Asset Name(s):	none
Other crossing assets:	S-MA70050829
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	300
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	Suspended inside eastbound span
Install Date:	2005
Remaining Service Life (as of 2024)	>50
Estimated Replacement Cost (2024):	$ 4,704,000.00

Maintenance and Inspection Activities

Last Condition Inspection:	2022
Next Condition Inspection:	2042
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	90.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation	$90,000		Replace pipe hangers, rollers, and cladding
Replacement			
Bank Geotechnical			
Re-Inspection		$ 205,000.00	Remote Field Technology, Ultrasonic Test

Comments:
Inspection and condition assessment of the Provencher Bridge Force Mains suggest that the pipe are in good condition. The lowest reported wall thickness was 95% Remaining Width.

Site Name: NORWOOD BRIDGE Updated: 4/1/2025

Overview

Asset Name:	Norwood Bridge
Alternative Asset Name(s):	
Asset Number:	S-MA70057885
Water Body:	RED RIVER
Licence:	NEWPCC
Pipe Size:	500
Material:	STEEL
Sewer Main Type:	FORCE MAIN
Location:	Suspended inside Northbound span of Norwood Bridge
Install Date:	1997
Remaining Service Life (as of 2024)	>50
Estimated Replacement Cost (2024):	2,688,000

Maintenance and Inspection Activities

Last Condition Inspection:	2022
Next Condition Inspection:	2042
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	4
Consequence Rating	96.5

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation	$ 788,000.00		Replace expansion joints
Replacement			
Bank Geotechnical			
Re-Inspection	$ 49,000.00		Electromagnetic Inspections

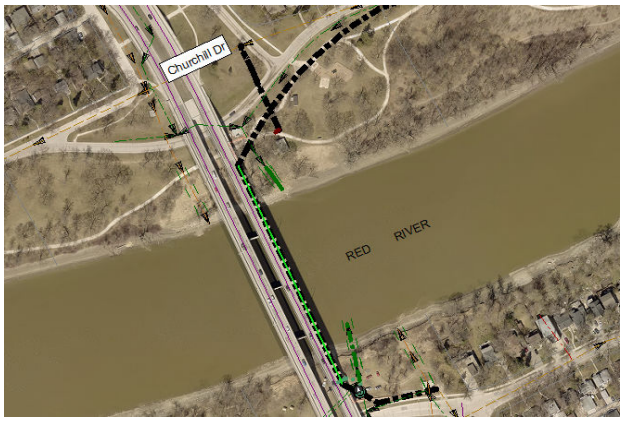
Comments:

Inspection and condition assessment of the Norwood Bridge Force Main, suggest that the pipe is in good condition. The lowest reported wall thickness was 86% RW.

Site Name: ST. VITAL BRIDGE Updated: 4/1/2025

Overview

Asset Name:	St Vital Bridge
Alternative Asset Name(s):	
Asset Number:	S-MA50017754
Water Body:	RED RIVER
Licence:	SEWPCC
Pipe Size:	450
Material:	STEEL SS304
Sewer Main Type:	FORCE MAIN
Location:	Suspended underneath the Northbound span of the St. Vital Bridge
Install Date:	2021
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2010
Next Condition Inspection:	N/A
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	96.5

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: FORT GARRY CEMETERY Updated: 4/1/2025

Overview

Asset Name:	
Alternative Asset Name(s):	CRESCENT DR/ WILLOW CRANE
Asset Number:	S-MA70003330
Water Body:	RED RIVER
Licence:	SEWPCC
Pipe Size:	525
Material:	HDPE
Sewer Main Type:	DUAL CASING
Location:	
Install Date:	1971
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2010-ACCEPTANCE
Next Condition Inspection:	2040
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	0
Consequence Rating	80.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

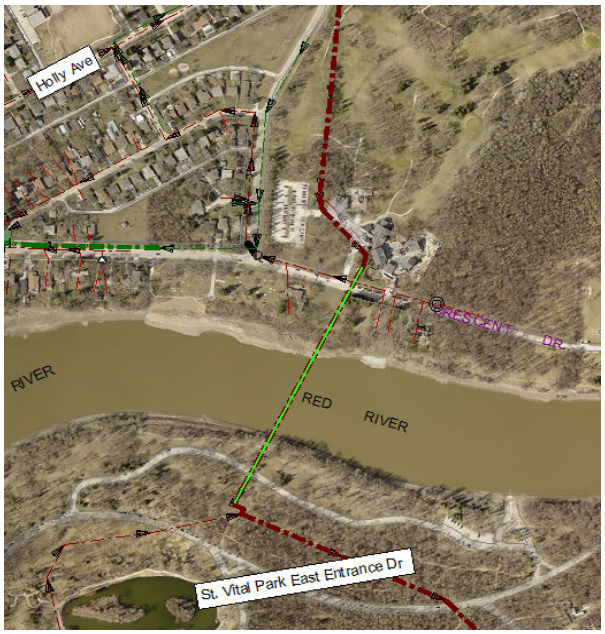
Comments:

Abandoned but left in place, needs removal.

Site Name: FORT GARRY CEMETERY Updated: 4/1/2025

Overview

Asset Name:	Crescent Drive
Alternative Asset Name(s):	CRESCENT DR
Asset Number:	S-MA70093899
Water Body:	RED RIVER
Licence:	SEWPCC
Pipe Size:	600
Material:	HDPE
Sewer Main Type:	DUAL CASING
Location:	Bedrock well outside of riverbank failure zo
Install Date:	2010
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2010-ACCEPTANCE
Next Condition Inspection:	2040
Visual Inspection Schedule:	
Isolation Valve Exercising:	Annually

Risk Assessment

Condition Grade	1
Consequence Rating	80.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: FORT GARRY BRIDGE Updated: 4/1/2025

Overview

Asset Name:	Fort Garry Bridge
Alternative Asset Name(s):	
Asset Number:	S-MA70087290
Water Body:	RED RIVER
Licence:	SEWPCC
Pipe Size:	700
Material:	HDPE
Sewer Main Type:	SEWERMAIN
Location:	River bottom
Install Date:	1973
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	21,400,000

Maintenance and Inspection Activities

Last Condition Inspection:	2023
Next Condition Inspection:	ONGOING
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually (west side only)

Risk Assessment

Condition Grade	0
Consequence Rating	75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: FORT GARRY BRIDGE Updated: 4/1/2025

Overview

Asset Name:	Fort Garry Bridge
Alternative Asset Name(s):	
Asset Number:	S-MA70053063
Water Body:	RED RIVER
Licence:	SEWPCC
Pipe Size:	800
Material:	HDPE
Sewer Main Type:	SEWERMAIN
Location:	River bottom
Install Date:	1973
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	21,400,000

Maintenance and Inspection Activities

Last Condition Inspection:	2023
Next Condition Inspection:	ONGOING
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	Annually (west side only)

Risk Assessment

Condition Grade	0
Consequence Rating	75

Planned Capital Works

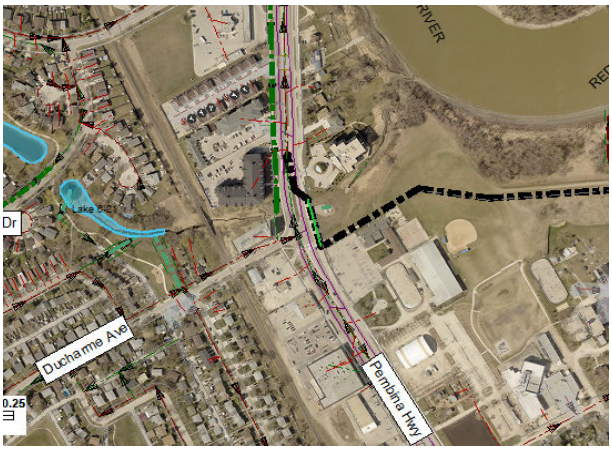
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 16,000.00		Toe armoring
Re-Inspection			

Comments:

Site Name: PEMBINA / DUCHARME Updated: 4/1/2025

Overview

Asset Name:	Not in RC Report
Alternative Asset Name(s):	
Asset Number:	S-MA70031937
Water Body:	BEAUJOLAIS COULEE
Licence:	
Pipe Size:	250
Material:	PVC
Sewer Main Type:	FORCE MAIN
Location:	
Install Date:	2000
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2000-ACCEPTANCE
Next Condition Inspection:	2030
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	1
Consequence Rating	66.5

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: DES TRAPPISTES Updated: 4/1/2025

Overview

Asset Name:	Not in RC Report
Alternative Asset Name(s):	
Asset Number:	S-MA60023233
Water Body:	WESTERNDORF COULEE
Licence:	
Pipe Size:	250
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	
Install Date:	1975
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2016
Next Condition Inspection:	2036
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	3
Consequence Rating	41.5

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: PORTAGE / EMPRESS Updated: 4/1/2025

Overview

Asset Name:	Portage Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70031433
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	600
Material:	STEEL
Sewer Main Type:	
Location:	
Install Date:	
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2013
Next Condition Inspection:	N/A
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	0
Consequence Rating	49.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Abandoned

Site Name: PORTAGE / EMPRESS Updated: 4/1/2025

Overview

Asset Name:	Portage Avenue
Alternative Asset Name(s):	
Asset Number:	TBD
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	600
Material:	PVC
Sewer Main Type:	INTERCEPTOR
Location:	Creek bottom
Install Date:	2022
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2022-ACCEPTANCE
Next Condition Inspection:	2052
Visual Inspection Schedule:	Weekly (March-November) and monthly (December-February)
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	1
Consequence Rating	49.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: ST. MATTHEWS Updated: 4/1/2025

Overview

Asset Name:	St Matthews Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA20009764
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	750
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	1954
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2009
Next Condition Inspection:	2029
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	49

Planned Capital Works

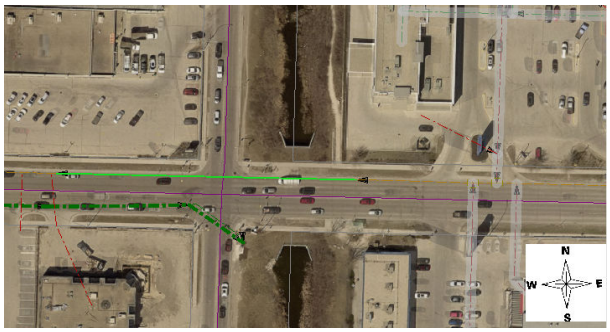
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: ELLICE Updated: 4/1/2025

Overview

Asset Name:	Ellice Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA20009857
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	750
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	1953
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2014
Next Condition Inspection:	2034
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	49

Planned Capital Works

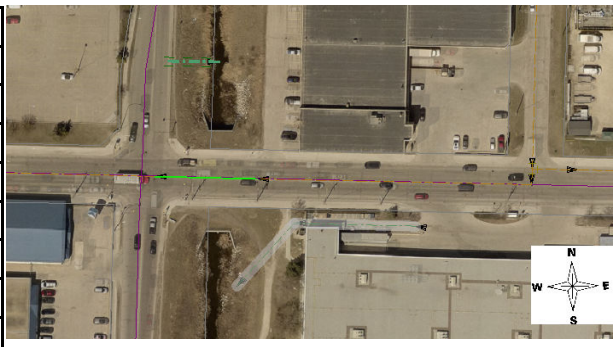
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: SARGENT Updated: 4/1/2025

Overview

Asset Name:	Sargent Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA20009956
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	750
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	1953
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	1
Consequence Rating	49

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: WELLINGTON AVENUE Updated: 4/1/2025

Overview

Asset Name:	Wellington Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA20010426
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	750
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	1956
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2023
Next Condition Inspection:	2043
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	4
Consequence Rating	49

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation	$ 81,000.00		Full segment liner
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: MCCROSSEN Updated: 4/1/2025

Overview

Asset Name:	McCrossen Street
Alternative Asset Name(s):	
Asset Number:	S-MA20011761
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	1350
Material:	*UNKNOWN
Sewer Main Type:	SEWERMAIN
Location:	
Install Date:	1964
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	52

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: ST. JAMES STREET Updated: 4/1/2025

Overview

Asset Name:	St James Street
Alternative Asset Name(s):	
Asset Number:	S-MA20011765
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	450
Material:	*UNKNOWN
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	48.25

Planned Capital Works

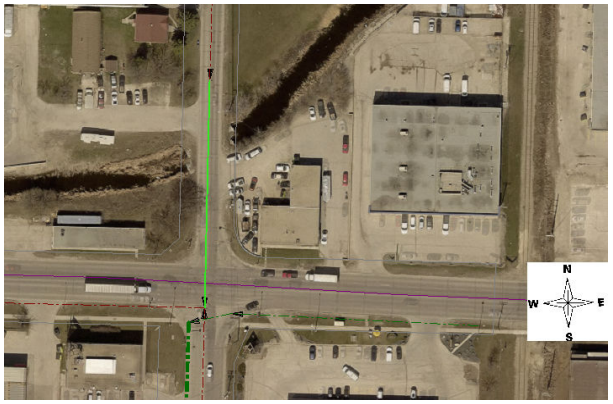
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: BORDER Updated: 4/1/2025

Overview

Asset Name:	Border Street
Alternative Asset Name(s):	
Asset Number:	S-MA20011649
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	375
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	45.25

Planned Capital Works

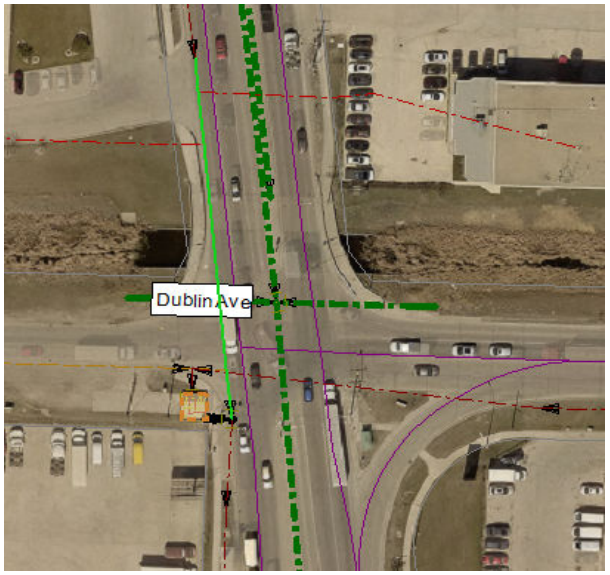
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: KING EDWARD Updated: 4/1/2025

Overview

Asset Name:	King Edward Street
Alternative Asset Name(s):	
Asset Number:	S-MA20007212
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	450
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	
Install Date:	1959
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	45.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: SHERWIN Updated: 4/1/2025

Overview

Asset Name:	Sherwin Road
Alternative Asset Name(s):	
Asset Number:	S-MA20007078
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	450
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	1964
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	45.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: STEVENSON Updated: 4/1/2025

Overview

Asset Name:	Stevenson Road
Alternative Asset Name(s):	
Asset Number:	S-MA20007112
Water Body:	OMANDS CREEK
Licence:	NEWPCC
Pipe Size:	250
Material:	*UNKNOWN
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	1965
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2012
Next Condition Inspection:	2032
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	44.5

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: DEER LODGE Updated: 4/1/2025

Overview

Asset Name:	Deer Lodge Place
Alternative Asset Name(s):	
Asset Number:	S-MA70016729
Water Body:	TRURO CREEK
Licence:	NEWPCC
Pipe Size:	300
Material:	STEEL
Sewer Main Type:	SECONDARY
Location:	Creek bottom
Install Date:	1961
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2016):	1,300,000

Maintenance and Inspection Activities

Last Condition Inspection:	2024
Next Condition Inspection:	2036
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	45.75

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical	$ 80,000.00		Slope regrading and toe armoring
Re-Inspection		$ 252,000.00	Remote Field Technology

Comments:

Site Name: ALBANY Updated: 4/1/2025

Overview

Asset Name:	Albany Street
Alternative Asset Name(s):	
Asset Number:	S-MA20007887
Water Body:	TRURO CREEK
Licence:	NEWPCC
Pipe Size:	450
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	Creek bottom
Install Date:	
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2022
Next Condition Inspection:	2042
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	3
Consequence Rating	45.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: ARCHIBALD / MARION Updated: 4/1/2025

Overview

Asset Name:	Archibald Street
Alternative Asset Name(s):	
Asset Number:	S-MA70042549
Water Body:	SEINE RIVER
Licence:	NEWPCC
Pipe Size:	900
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	
Install Date:	1958
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2017
Next Condition Inspection:	2037
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	59.5

Planned Capital Works

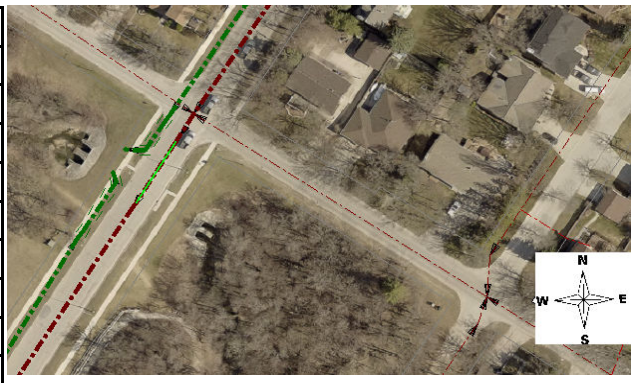
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: ROTHESAY / BONNER Updated: 4/1/2025

Overview

Asset Name:	Rothesay Street
Alternative Asset Name(s):	
Asset Number:	S-MA70032063
Water Body:	BUNNS CREEK
Licence:	NEWPCC
Pipe Size:	525
Material:	CONCRETE
Sewer Main Type:	INTERCEPTOR
Location:	Creek bottom
Install Date:	1974
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2015
Next Condition Inspection:	2035
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	52.75

Planned Capital Works

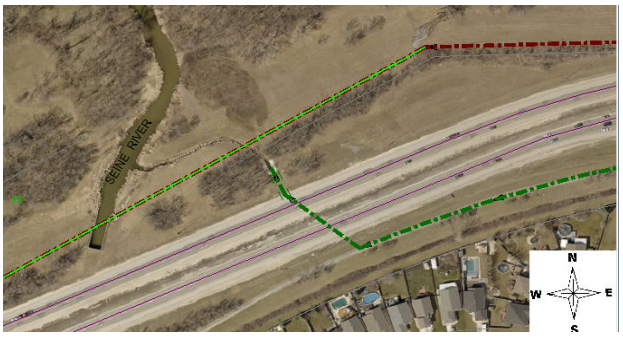
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: ABINOJII MIKANAH / ST. ANNES Updated: 4/1/2025

Overview

Asset Name:	ABINOJII MIKANAH
Alternative Asset Name(s):	
Asset Number:	S-MA50009027
Water Body:	SEINE RIVER
Licence:	SEWPCC
Pipe Size:	1350
Material:	CONCRETE
Sewer Main Type:	INTERCEPTOR
Location:	
Install Date:	1967
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2021
Next Condition Inspection:	2041
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	63.25

Planned Capital Works

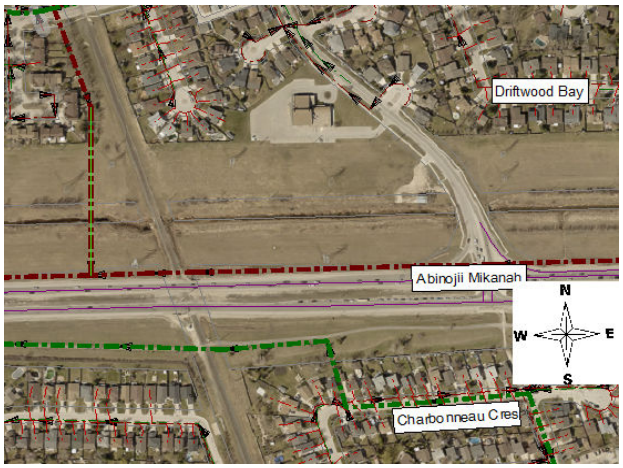
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: ABINOJII MIKANAH / CPR TRACKS Updated: 4/1/2025

Overview

Asset Name:	Not in RC Report
Alternative Asset Name(s):	
Asset Number:	S-MA50009013
Water Body:	NAVIN DRAIN
Licence:	SEWPCC
Pipe Size:	750
Material:	CONCRETE
Sewer Main Type:	INTERCEPTOR
Location:	
Install Date:	1967
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2021
Next Condition Inspection:	2041
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	3
Consequence Rating	49

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: EDGEMONT / ABINOJII MIKANAH Updated: 4/1/2025

Overview

Asset Name:	Not in RC Report
Alternative Asset Name(s):	
Asset Number:	S-MA50008068
Water Body:	NAVIN DRAIN
Licence:	SEWPCC
Pipe Size:	530
Material:	CONCRETE
Sewer Main Type:	SEWERMAIN
Location:	
Install Date:	1973
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2015
Next Condition Inspection:	2035
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	3
Consequence Rating	49

Planned Capital Works

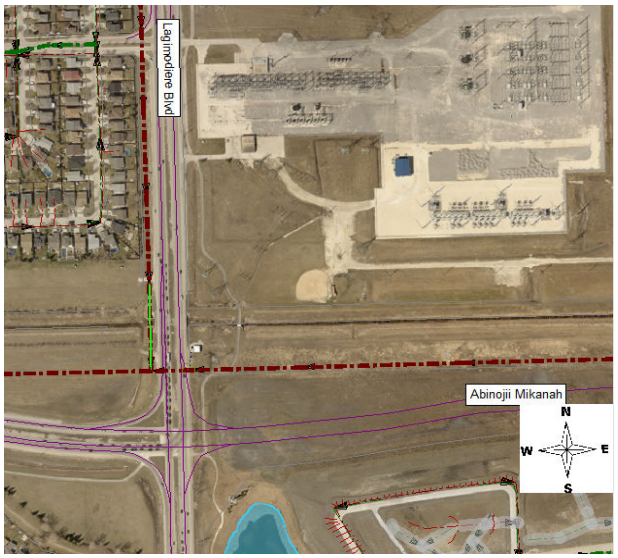
	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: LAGIMODIERE / ABINOJII MIKANAH Updated: 4/1/2025

Overview

Asset Name:	Not in RC Report
Alternative Asset Name(s):	
Asset Number:	S-MA70013886
Water Body:	NAVIN DRAIN
Licence:	SEWPCC
Pipe Size:	900
Material:	CONCRETE
Sewer Main Type:	INTERCEPTOR
Location:	
Install Date:	1976
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	



Maintenance and Inspection Activities

Last Condition Inspection:	2019
Next Condition Inspection:	2039
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	3
Consequence Rating	49

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments:

Site Name: WARDE AVE/WATERTON / ST. ANNES Updated: 4/1/2025

Overview

Asset Name:	Warde Avenue
Alternative Asset Name(s):	
Asset Number:	S-MA70045660
Water Body:	SEINE RIVER
Licence:	SEWPCC
Pipe Size:	750
Material:	CONCRETE
Sewer Main Type:	INTERCEPTOR
Location:	
Install Date:	2003
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2015
Next Condition Inspection:	2035
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	2
Consequence Rating	63.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			CCTV

Comments:

Site Name: FLOODWAY Updated: 4/1/2025

Overview

Asset Name:	Not in RC Report
Alternative Asset Name(s):	
Asset Number:	S-MA70087417
Water Body:	FLOODWAY
Licence:	
Pipe Size:	250
Material:	HDPE
Sewer Main Type:	FORCE MAIN
Location:	
Install Date:	2007
Remaining Service Life (as of 2024)	
Estimated Replacement Cost (2024):	

Maintenance and Inspection Activities

Last Condition Inspection:	2007-ACCEPTANCE
Next Condition Inspection:	2037
Visual Inspection Schedule:	
Isolation Valve Exercising:	

Risk Assessment

Condition Grade	1
Consequence Rating	63.25

Planned Capital Works

	3 to 5 years	5 to 10 years	Type
Rehabilitation			
Replacement			
Bank Geotechnical			
Re-Inspection			

Comments: