

R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT WELCOME AND INTRODUCTION

The Rural Municipality of West St. Paul welcomes you to this Open House to update progress on the design and construction of a new regional wastewater collection system.

Members of Council and Administration from the R.M. of West St. Paul and representatives from The Manitoba Water Services Board (Project Manager) and Stantec Consulting Limited (Project Engineer) are here today to answer questions and provide current information on the project plans. We encourage you to ask any questions that you may have.

Comments sheets are also available if you wish to provide written questions or feedback.

- Welcome and Introduction
- Project Outline
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- Existing Wastewater Treatment Plants
- Trunk Sewer Service Area
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PROJECT OUTLINE

What are we proposing?

A new regional wastewater collection system to service the R.M. of West St. Paul. Wastewater treatment will be provided by the City of Winnipeg at the North End Water Pollution Control Centre on Main Street.

Why?

It is believed that there are a large number of failing septic fields within Manitoba Conservation's Red River Corridor Designated Area that require either replacement with holding tanks or connection to an approved wastewater treatment system.

There are also four (4) wastewater treatment plants owned and operated by the R.M. of West St. Paul that do not provide the standard of treatment currently required by Manitoba Conservation.

Why partner with the City of Winnipeg?

Modern wastewater treatment facilities are complex and expensive to construct, operate and maintain. A service sharing agreement was signed with the City of Winnipeg in January 2013 to provide a cost-effective means of providing wastewater treatment for the R.M. of West St. Paul. Regional infrastructure projects increase the chance of securing funding from Federal and Provincial Governments.

Who is affected?

All properties within the R.M. of West St. Paul will be affected. The cost of the proposed trunk sewer will be shared equally by existing property owners. The cost and timing of local services will vary from property to property and depend upon where you live.

How much will the project cost?

The current estimate for the Main Street Trunk Sewer from Fernbank Avenue in the City of Winnipeg to Rivercrest in the R.M. of West St. Paul is \$16M.

Who will pay for the project?

The Main Street Trunk Sewer will be cost-shared by the Federal, Provincial and Municipal Governments.

- Federal Building Canada Fund Contribution = \$4M
- Provincial Building Canada Fund Contribution = \$4M
- The Manitoba Water Services Board Contribution = \$2M
- R.M. of West St. Paul Contribution = \$6M

When will the project be constructed?

The first phase of construction is anticipated to begin in Fall 2013. The Building Canada Funding expires in September 2015. Future phases will proceed as funding becomes available.



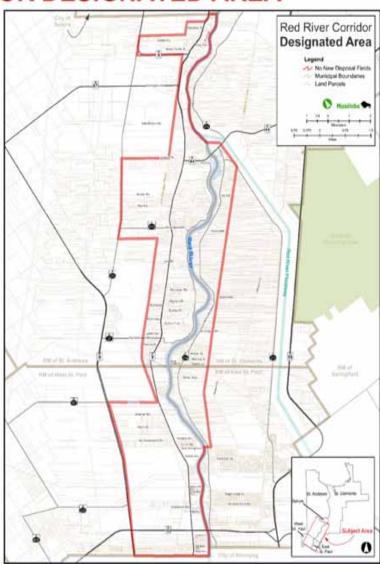




RED RIVER CORRIDOR DESIGNATED AREA

WEST ST. PAUL

- Onsite Wastewater Management Systems Regulations (83/2003) pursuant to The Environment Act are administered by Manitoba Conservation.
- The Red River Corridor Designated Area was established in 2009 under an amendment to these Regulations.
- Replacement or modification of existing septic fields and construction of new septic fields are prohibited within this Designated Area.
- Detailed information on the Regulations is available from Manitoba (www.gov.mb.ca/conservation/envprograms/wastewater/index.htm)









R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT EXISTING WASTEWATER TREATMENT PLANTS

The R.M. of West St. Paul owns and operates four (4) wastewater treatment plants (WWTP) within the proposed Phase 1 service area.

- Riverdale WWTP was constructed in 1979 and serves 152 dwellings.
- Lister Rapids WWTP was constructed in 1985 and serves 68 dwellings.
- Rivergate (Riversprings) WWTP was constructed in 1996 and currently 44 dwellings.
- Rivercrest WWTP was originally constructed in 1946 and upgraded in 1979 and serves 142 dwellings.

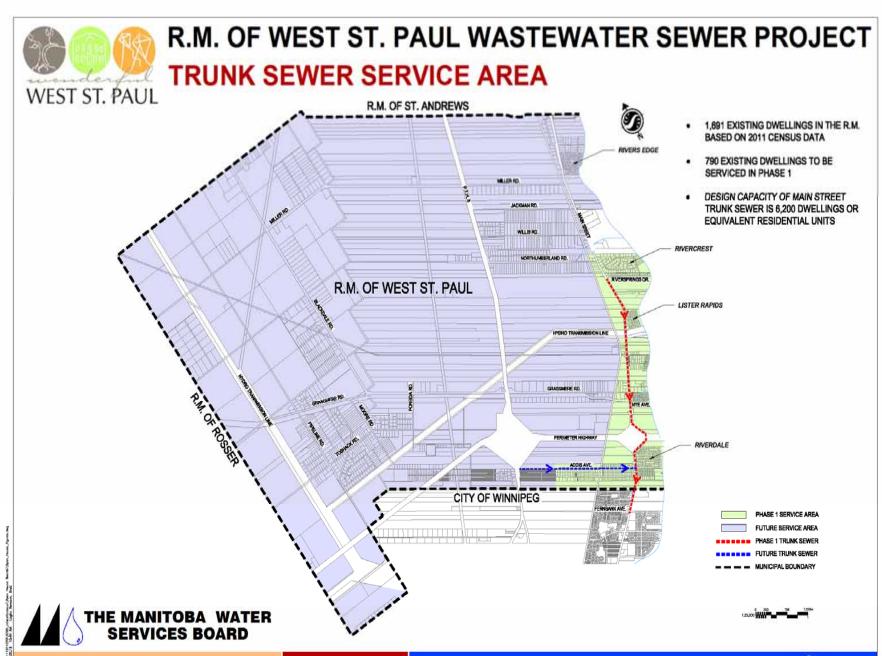
These plants are in poor condition and do not provide the level of wastewater treatment required by current standards and regulations. The estimated replacement cost of these facilities is as follows.

- Riverdale WWTP = \$3M
- Lister Rapids WWTP = \$1.8M
- Rivergate (Riversprings) WWTP = \$0.9M
- Rivercrest WWTP = \$2.5M









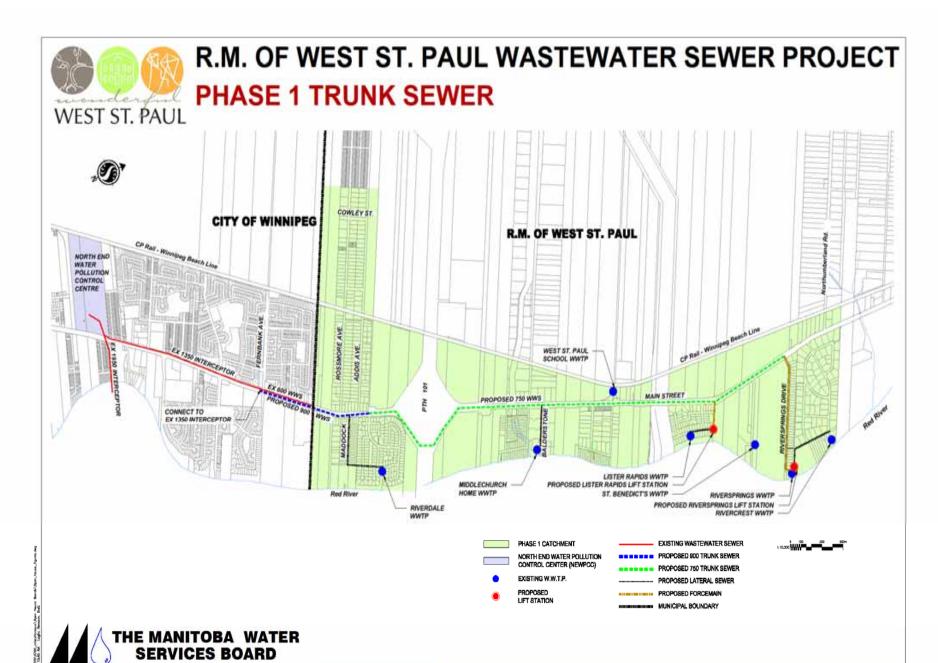




R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT MAIN TRUNK SEWER FINANCING

	Borrowing	At Large
Phase Cost	\$ 16,000,000	
Less Grants	\$ 10,000,000	
Borrowing	\$ 6,000,000	
Annual Payment over 20 yrs	\$ 481,455	
Assessment		\$320,000,00
Mill Rate Impact		1.5
Cost Per \$100,000 Assessment		\$ 6









R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT LOCAL IMPROVEMENT DISTRICTS

A Local Improvement District or LID is a special public improvement area created by a municipality to allow for public financing of a public improvement project that benefits private property. The construction of the lateral sewers that service individual streets and developments is proposed to be paid for through the establishment of numerous LIDs with payment collected through a special tax from benefiting property owners. These taxes can typically be pre-paid in a lump-sum amount or paid annually over a 20-year period on your municipal tax bill.

Local improvement taxes must be calculated on the basis of one or more of the following:

- a. the proportioned value of assessable property that is real property;
- b. the annual rental value of premises as assessed for the purpose of a business tax;
- an amount for each unit of area of the lands benefited by the improvement or service area;
- an amount for each unit of frontage of the lands benefited by the improvement or service;
- e. an amount for each business;
- f. an amount for each parcel of land.

The local servicing costs presented on subsequent boards at this Open House are calculated on a per parcel basis for existing neighbourhoods within the Phase 1 service area. The final LID boundaries and method of taxation will be determined through discussion with local residents and Council as the project proceeds. Each proposed LID is subject to a By-law approval process prior to implementation.

The R.M. of West St. Paul recognizes that affordability is a key consideration in all aspects of the proposed wastewater sewer project and will continue to pursue funding from Federal, Provincial and private sources to reduce the financial impacts on affected property owners.







R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT RIVERDALE, MADDOCK & DRURY LOCAL SERVICING



	OPINION OF PROBABLE COST		
ITEM	DESCRIPTION		
1)	Gravity Sewer Laterals	\$ 745,000	
2)	Decommission Existing WWTP	\$ 100,000	
	Subtotal	\$845,000	
Co	nstruction Contingency & Engineering (25%)		
Total Municipal Infrastructure Construction Cost \$1,056,250			
	Cost Per Dwelling (154 Existing)		(Payable over 20 years)
City of Winnipeg Connection Fee Per Dwelling			(Paid at time of connection)
	Water meter	(Paid at time of connection)	

Reserve Account Balance \$243,332 (\$1,580 per dwelling) **Total Local Servicing Cost Per Dwelling** \$7,780

Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.

MADDOCK & DRURY AVENUE PRELIMINARY

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	OPINION OF PROBABLE COST	Secretaria de la composição de la compos	
ITEM	DESCRIPTION	AMOUNT	
1)	Gravity Sewer Laterals	\$ 209,000	
Co	enstruction Contingency & Engineering (25%)	\$52,250	
	Iunicipal Infrastructure Construction Cost	\$261,250	
	Cost Per Dwelling (43 Existing)	\$6,075	(Payable over 20 years)
A	approximate Private Service Connection Cost	\$ 6,000	(Paid at time of connection
C	ity of Winnipeg Connection Fee Per Dwelling	\$ 1,900	(Paid at time of connection)
	Water Meter	\$ 600	(Paid at time of connection)
	Total Local Servicing Cost Per Dwelling	\$14,575	

Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.



NYE, BALDOCK, EVELYN, GRASSMERE & BALDERSTONE LOCAL SERVICING

WEST ST. PAUL



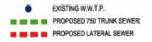
	NYE, BALDOCK, EVELYN, GRASSM		- 1	
E	SALDERSTONE PRELIMINARY OPIN	ION (OF	
	PROBABLE COST			
ITEM	DESCRIPTION		AMOUNT	
1)	Gravity Sewer Laterals	\$	1,600,000	

the state of the s	nstruction Contingency & Engineering (25%)		\$400,000	
Total M	lunicipal Infrastructure Construction Cost	\$	2,000,000	
Cost Per Dwelling (69 E	xisting & 148 ERU from Middlechurch Home)	\$	9,220	(Payable over 20 years)
A	pproximate Private Service Connection Cost		\$6,000	(Paid at time of connection
C	ity of Winnipeg Connection Fee Per Dwelling			(Paid at time of connection
	Water Meter		\$ 600	(Paid at time of connection
***************************************	Total Local Servicing Cost Per Dwelling	\$	17,720	

Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.

The Middlechurch Home is estimated to contribute equivalent wastewater flow of 148 residential dwellings based on the Licensed capacity of its existing wastewater treatment plant.









HIAWATHA, MINNEHAHA & KENABEEK LOCAL SERVICING



	PF	RELIMINARY OPINION OF PROBABLI	E COST	
	ITEM	DESCRIPTION	AMOUNT	
1	1)	Gravity Sewer Laterals	\$ 1,190,000	
	2)	Lift Station & Forcemain	\$ 310,000	
		Subtotal	\$ 1,500,000	
	Co	instruction Contingency & Engineering (25%)	\$375,000	
	Total N	lunicipal Infrastructure Construction Cost	\$ 1,875,000	
C	ost Per	Dwelling (49 Existing & 46 ERU from school)	\$ 19,740	(Payable over 20 years)
		pproximate Private Service Connection Cost		(Paid at time of connection)
	City of Winnipeg Connection Fee Per Dwelling		\$ 1,900	(Paid at time of connection)
		Water Meter	\$ 600	(Paid at time of connection)
		Total Local Servicing Cost Per Dwelling	\$ 28.240	

A low-pressure sewer system for this area may also be considered in consultation with local residents. A preliminary opinion of probable cost for this alternative is approximately \$18,000 per dwelling. Cost recoveries from adjacent developments that benefit from this infrastructure may also reduce the cost to existing residents.

Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.

The West St. Paul School is estimated to contribute equivalent wastewater flow of 46 residential dwellings based on the capacity of its existing wastewater treatment plant.









R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT LISTER RAPIDS LOCAL SERVICING



PF	RELIMINARY OPINION OF PROBABLE	COST	
ITEM	DESCRIPTION	AMOUNT	
1)	Gravity Sewer Laterals	\$ 267,000	
2)	Lift Station & Forcemain	\$ 286,000	
3)	Decommission Existing WWTP	\$ 100,000	
Subtotal		\$ 653,000	
Co	nstruction Contingency & Engineering (25%)	\$ 163,000	
Total Municipal Infrastructure Construction Cost		\$ 816,000	
Cost Per Dwelling (68 Existing)		\$ 12,000	(Payable over 20 years)
City of Winnipeg Connection Fee Per Dwelling		\$ 1,900	(Paid at time of connection
	Water Meter	\$ 600	(Paid at time of connection

Reserve Account Balance \$108,420 (\$1,594 per dwelling)
Total Local Servicing Cost Per Dwelling \$12,900

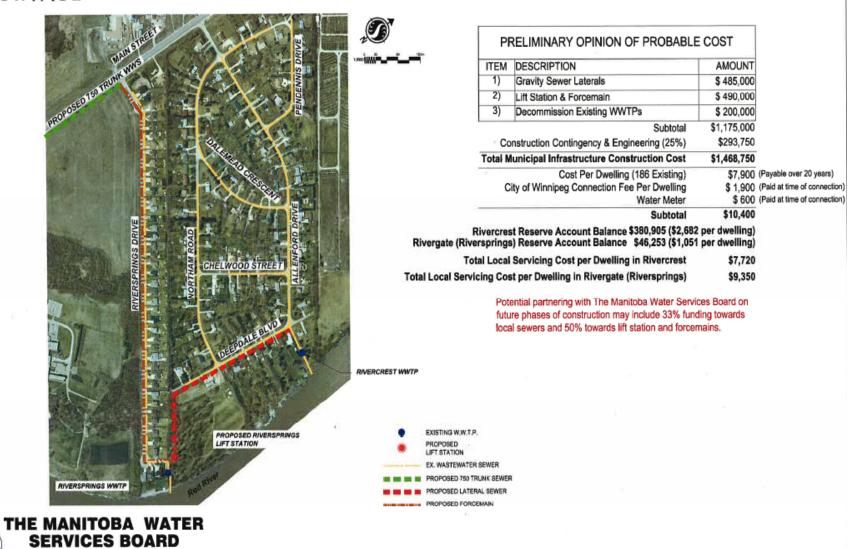
Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.







R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT RIVERSPRINGS & RIVERCREST LOCAL SERVICING







ROSSMORE & ADDIS LOCAL SERVICING





DI	RELIMINARY OPINION OF PROBABL	E COST	
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ITEM	DESCRIPTION	AMOUNT	
1)	Gravity Sewer Laterals	\$ 4,293,000	
Co	Instruction Contingency & Engineering (25%)	\$ 1,073,000	
Total N	lunicipal Infrastructure Construction Cost	\$ 5,366,000	
	Cost Per Dwelling (179 Existing)	\$ 29,980	(Payable over 20 years)
A	pproximate Private Service Connection Cost	\$ 6,000	(Paid at time of connection)
C	ity of Winnipeg Connection Fee Per Dwelling		(Paid at time of connection)
	Water Meter	\$ 600	(Paid at time of connection)
	Total Local Servicing Cost Per Dwelling	\$ 38,480	

A low-pressure sewer system for this area may also be considered in consultation with local residents. A preliminary opinion of probable cost for this alternative is approximately \$19,000 per dwelling. Cost recoveries from adjacent developments that benefit from this infrastructure may also reduce the cost to existing residents.

Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.



EX. WASTEWATER SEWER







R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT MAIN STREET LOCAL SERVICING



The costs of individual sewer services for properties that front onto the Main Street Trunk Sewer are proposed to be paid through the establishment of a Local Improvement District (LID). The LID would cover only that portion of the sewer service within the Main Street right-of-way. Service pipe and building connections would be paid for directly by each property owner.

		Total Local Servicing Cost Per Dwelling	\$21,500	
		Water Meter	\$ 600	(Paid at time of connection)
	С	ity of Winnipeg Connection Fee Per Dwelling	\$ 1,900	(Paid at time of connection)
Approxi	mate Priv	rate Service Connection Cost (large setback)		(Paid at time of connection)
Cost Per Dwelling (38 Existing)		+-1	(Payable over 20 years)	
Construction Contingency & Engineering (25%) Total Municipal Infrastructure Construction Cost		\$ 342,250		
		\$ 68,450		
	1)	Municipal service connection to trunk	\$ 273,800	
	ITEM	DESCRIPTION	AMOUNT	
	PF	RELIMINARY OPINION OF PROBABLE	COST	

Potential partnering with The Manitoba Water Services Board on future phases of construction may include 33% funding towards local sewers and 50% towards lift station and forcemains.







EXAMPLE SEWER SERVICE CONNECTIONS





PRIVATE WASTEWATER SEWER SERVICE INSTALLED BY HOME OWNER

MUNICIPAL WASTEWATER SEWER INSTALLED BY R.M.

Installation of the sewer service pipe on your property and connection to your existing plumbing will be arranged and paid for by the property owner. These costs will vary depending upon a number of factors, including the length of service, the extent of paved surface, trees and fences as well as plumbing modifications within your house that may need to be undertaken to make the connection. Typical costs can range from \$6,000 for a property similar to #329 Nye to \$10,000 for a property with a large building setback such as #38 Hiawatha.

The work can be completed by a licensed sewer and plumbing contractor of your choosing. The costs presented above are intended only to give you an approximation of what you might expect to pay based on past project experience.

PRIVATE WASTEWATER SYSTEM COST COMPARISON:

- Typical new shallow bury holding tank system (no basement plumbing) installation cost = \$5,000
- Typical new deep-bury large holding tank system installation cost = \$10,000
- Typical new septic tank and septic field installation cost = \$24,000





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R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT UTILITY RATES

Once constructed, the ongoing operation, maintenance and eventual replacement of the sewer system will be paid for by utility customers based on the amount of water they use. Water usage will be measured by meters installed in homes and businesses and sewer bills will be issued quarterly based on your water usage.

Most domestic water used typically ends up as sewage that is discharged into the wastewater collection system, however, some water may be used for other purposes such as watering a lawn. Water lines that are for external use, such as hose bib connections or sprinkler lines, can be installed before the water meter and therefore will not be included in your metered water use. The water meters will be equipped with remote monitoring capabilities for billing purposes to allow the R.M. to obtain water meter readings from outside the residence. Product information is available from the R.M. upon request.

Sewer utility rates paid by sewer customers in the R.M. of West St. Paul will consist of the following components:

- City of Winnipeg Sewer rate (\$2.15/cubic meter for 2013),
- City of Winnipeg annual administration fee (\$200 for 2013) and
- Local sewer rate for the wastewater infrastructure owned, operated and maintained by the R.M. of West St. Paul (to be determined)

Utility rates are based on a user-pay philosophy and are subject to review and approval by the Manitoba Public Utilities Board.

The average family of four (4) in the City of Winnipeg paid a total of \$504 on their sewer bill in 2012 and produced 240 cubic metres of wastewater.

For comparison, this same family of four (4) could expect to pay approximately \$5,300 annually for wastewater hauling, assuming a 4,500 litre (4.5 cubic metre) holding tank and \$100 per pump out.







R.M. OF WEST ST. PAUL WASTEWATER SEWER PROJECT WHY CONNECT TO THE CITY OF WINNIPEG?

The R.M. of West St. Paul has considered a number of alternatives over the last several years for the provision of municipal wastewater collection and treatment. The preferred alternative, in terms of least cost, for the Municipality has always been to connect to the City of Winnipeg. The terms of a service sharing agreement that is beneficial to both parties were reached in 2012. A comparison of the capital cost of constructing a new central wastewater treatment plant and trunk sewer in the R.M. of West St. Paul versus connection to the City of Winnipeg is shown below.

Wastewater Treatment

A 2010 Functional Design Report commissioned by the R.M. of West St. Paul and The Manitoba Water Services Board estimated the cost of construction of a new central wastewater treatment plant with capacity to serve 3,000 dwellings at \$15M. The cost of this project was to be funded by an \$8M grant from the Build Canada Fund and \$7M shared equally by the R.M. of West St. Paul and the R.M. of St. Andrews. The municipal cost was estimated to be approximately \$2,330 per dwelling.

For comparison, the cost for a single family dwelling to connect to the City of Winnipeg wastewater system is currently \$1,900 for a savings of \$430 per dwelling.

Main Street Trunk Sewer

The 2010 Functional Design Report estimated the cost of the Main Street Trunk Sewer at \$10.7M. Assuming a \$2M grant from The Manitoba Water Services Board, the R.M. of West St. Paul contribution would be \$8.7M.

For comparison, the proposed Main Street Trunk Sewer connecting to the City of Winnipeg is currently estimated to cost \$16M. This project will be funded by an \$8M grant from the Build Canada Fund and a \$2M grant from The Manitoba Water Services Board. The R.M. of West St. Paul contribution is currently estimated to be \$6M for a savings of approximately \$1,600 per dwelling (for 1,691dwellings).

Other Considerations

- The R.M of West St. Paul would require a much higher initial capital contribution to construct a new wastewater treatment facility since
 the collection system would have to be constructed concurrently in order to provide the wastewater necessary for the plant to function at
 start-up.
- The proposed Main Street Trunk Sewer has a design capacity of approximately 6,200 dwellings or equivalent residential units whereas the
 wastewater treatment plant that was under consideration had a design capacity of 1,500 dwellings (R.M. of West St. Paul share).
- Large wastewater treatment plants designed and constructed to current standards and regulations are complex and expensive to operate.







The proposed project schedule for Phase 1 is outlined below.

Public Open House #1 February 19, 2013

Public Open House #2 March 5, 2013

Public Borrowing By-law Hearing May 2013

Detailed Design March through June 2013

Construction Tender #1 August 2013

Construction Contract #1 Fall 2013 through early 2014

- Phase 1 is currently planned to be tendered and constructed under three (3) separate construction contracts.
- The scope and timing of these contracts will be developed as the detailed design proceeds.
- The total duration of Phase 1 construction is currently estimated to be approximately eight (8) to ten (10) months.
- Building Canada Funding (\$8M) expires in September 2015.

