Agenda – Executive Policy Committee – June 11, 2008

Report – Standing Policy Committee on Infrastructure Renewal and Public Works – May 26, 2008

Item No. 2 New Capital Project - Land Drainage Improvements - Rural Municipality of Macdonald
File SD

STANDING COMMITTEE RECOMMENDATION:

On March 26, 2008, the Standing Policy Committee on Infrastructure Renewal and Public Works concurred in the recommendation of the Winnipeg Public Service and submits the following to Council:

1. That Land Drainage Improvements in the Rural Municipality of Macdonald be approved as a new capital project at a cost of $140,250.00 outside of the 2008 Capital Budget process.

2. That funds in the amount of $76,500.00 from the Non-Specified Capital Account – Solid Waste (Account No. 445 181000 200753 20600000NS) be utilized to provide funding for this new project.

3. That funds in the amount of $63,750.00 from the Non-Specified Capital Account – Land Drainage (Account No. 003 181000 200652 20700000NS) be utilized to provide funding for this new project.

4. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

Agenda – Executive Policy Committee – June 11, 2008

Report – Standing Policy Committee on Infrastructure Renewal and Public Works – May 26, 2008

DECISION MAKING HISTORY:

STANDING COMMITTEE RECOMMENDATION:

On May 26, 2008, the Standing Policy Committee on Infrastructure Renewal and Public Works concurred in the recommendation of the Winnipeg Public Service and submitted the matter to the Executive Policy Committee and Council.

RE: New Capital Project for Funding of Land Drainage Improvements in the Rural Municipality of Macdonald

FOR SUBMISSION TO: The Standing Policy Committee on Infrastructure Renewal and Public Works

ORIGINAL REPORT SIGNED BY: Barry D. MacBride, P.Eng.
Director, Water and Waste Department

REPORT DATE: May 7, 2008

RECOMMENDATION(S):

1. That Land Drainage Improvements in the Rural Municipality of Macdonald be approved as a new capital project at a cost of $140,250 outside of the 2008 Capital Budget process and,

2. That funds in the amount of $76,500 from the Non-Specified Capital Account – Solid Waste (Account No. 445 181000 200753 20600000NS) be utilized to provide funding for this new project and,

3. That funds in the amount of $63,750 from the Non-Specified Capital Account – Land Drainage (Account No. 003 181000 200652 20700000NS) be utilized to provide funding for this new project.

REPORT SUMMARY

KEY ISSUES:

- New Capital Projects must be approved by Council.

- The Rural Municipality of Macdonald has proposed land drainage improvement plans that would redirect most of the Kronsgart Drain flows from going through City lands at the Brady Road Landfill Site. They have approached the City for a financial contribution based on the benefits of reducing the amount of land drainage flows through the landfill site. The RM has advised that they will not likely proceed with this project without the City sharing in the project cost.

- The City of Winnipeg - Water and Waste Department has their own preliminary plans to remove the Kronsgart drain within the Brady Road landfill site. The RM of Macdonald plan is an improvement on the City plans as it eliminates all upstream flow through the landfill that would need to be dealt with at a later time.

- The City benefits from a cooperative approach with surrounding municipalities on mutual land drainage issues.

IMPLICATIONS OF THE RECOMMENDATION(S):

General Implications

	None
	For the organization overall and/or for other departments
x	For the community and/or organizations external to the City of Winnipeg
	Involves a multi-year contract

Comment(s): Funding of land drainage improvements in the R.M. of Macdonald will divert the land drainage that currently is allowed to pass through the Brady Road Landfill site. Diverting this runoff has financial saving implications for current drain maintenance requirements, along with future land drainage servicing plans at Brady which can be reduced in scale due to the lower flows.

Policy Implications

x	No
	Yes

Comment(s):

Regulatory Implications

x	None
	Eliminates or reduces regulatory impact
	Proposes regulatory impact

Comment(s):

Environmental Implications

	None
x	Yes

Comment(s): Diverting external runoff from passing through the landfill site improves the ability of the landfill to control its own runoff and reduce the potential for leachate issues.

Human Resources Implications

x	No
	Yes

Comment(s):

Financial Implications

x	Within approved current and/or capital budget
	Current and/or capital budget adjustment required

Comment(s): Funds for this project are included in an approved capital budget.

REPORT

REASON FOR THE REPORT:

New Capital Projects must be approved by Council.

HISTORY:

Funds in the amount of $191,405 are included in the Solid Waste Non-Specified Capital Account , Account No. 445 181000 200753 20600000NS.

Funds in the amount of $100,000 are included in the Land Drainage Non-Specified Capital Account, Account No. 003 181000 200652 2070000NS.

DISCUSSION:

Project Background

Last fall, the Rural Municipality of Macdonald approached the Water and Waste Department advising of land drainage improvements they are planning to implement that would result in redirecting most of the land drainage flow in the Kronsgart Drain that has historically flowed through the Brady Road Landfill. The attached Figure 1 shows the existing and proposed changes to drainage through the Brady Road Landfill as a result of the Rural Municipality of Macdonald proposal. The existing drain traverses the Brady Road Landfill Site and discharges to the Westerndorf Coulee that ultimately discharges to the LaSalle River. The RM is proposing to undertake this project to address problems with an area that is currently poorly drained and to create an outlet drain that is solely the responsibility of the RM, and not co-shared with the City of Winnipeg where there have been drainage issues in the past.

The Rural Municipality of Macdonald has inquired whether the City would contribute to their project citing that there would be benefits to the City by reducing the amount of land drainage flow that currently flows through the Brady Road Landfill site.

Design work for the proposed Rural Municipality of Macdonald project has been completed and they would like to begin construction in June, 2008. The project is estimated to cost $400,000 with $125,000 supported by the benefiting local agricultural properties leaving $275,000 to be funded from other sources. The RM has indicated that this project will only proceed if co-funding is secured. The RM has approached the Provincial Government for co-funding and was denied as the current drains are not a provincial responsibility.

The Rural Municipality of Macdonald has indicated that should the project proceed, they would be solely responsible for obtaining all approvals, lands and licenses, for construction management and for the perpetual maintenance of the new drain, with no other City resources required.

Benefits to the City

The proposed Rural Municipality of Macdonald drainage plan has a number of benefits to the City, these include:

- Environmental benefits
- Future Brady Road Landfill Site internal drain relocation savings
- Provides a partnering opportunity with the Rural Municipality of Macdonald

Environmental and Drainage Benefits

Manitoba Environment Regulations do not permit landfill liquids (leachate) from leaving the landfill property uncontrolled. The presence of a drain transporting large volumes of flow through the Brady Road Landfill property and the currently active disposal area situated near the drain increase the likelihood of leachate entering the water and leaving the property uncontrolled. The Water and Waste Department has been considering relocating the drain from the centre of the landfill, and in particular, away from the base of a landfill cell to isolate any potential for leachate seeping to the flow-through Kronsgart Drain. This drain currently flows through the landfill and to the Westendorf Coulee which runs along St. Norbert resident's backyards to the LaSalle River, and would also benefit from the reduced flow.

Recent environmental licenses that have been issued for new landfills in Manitoba contain requirements that stormwater is to be contained on site until it can be tested, and the test results approved by Manitoba Conservation prior to discharge. If a similar condition was imposed on the Brady Road Landfill it would be cost prohibitive to leave the current drain as-is because this would require that large volumes of run-off (external and internal) be stored and tested prior to discharge off of the landfill site.

Brady Road Landfill Site Future Drainage Relocation Savings

The long term drainage plan for the Brady Road Landfill Site has the existing drain being moved approximately 1 kilometre south of the existing drain. With the proposed

Rural Municipality of Macdonald plan of diverting all upstream flows from entering the landfill site, the new internal drain when constructed would be considerably smaller and less expensive. The Water and Waste Department has estimated there would be $150,000 in savings with a downsized drain.

Partnering with the Rural Municipality of Macdonald

By providing funding to this drainage initiative, the City will enhance the already positive relationship with one of the Capital Region Municipalities. It should be noted that since 1995, the Rural Municipality of Macdonald and the City's WinGRO Program have partnered to apply biosolids for farmlands as a fertilizer and soil supplement. The City will need agricultural land for year round application of biosolids until 2011 and will likely still need land for disposal annually during the April to November period thereafter.

Recommendation

Based on the above it is recommended that the City cost share this project with the Rural Municipality based on a 50/50 split of the $275,000 remaining funding requirement, and therefore contribute $137,500 to the project. (Internal financing costs are $2,750 for a total of $140,250.)

Surplus funds are available from the Solid Waste – Non-Specified Capital Account and from the Land Drainage – Non-Specified Capital Account for the new capital project for Funding of Land Drainage Improvements in the Rural Municipality of Macdonald.

The financial status of the Non-Specified Capital Account – Solid Waste is as follows:

Authorized Capital		$191,405.00
Amount of Previous Expenditures	$ 0.00	
Amount of this Award	$ 75,000.00	
Estimated Interest	$ 1,500.00	
Total Estimated Cost	$ 76,500.00	$ 76,500.00
Estimated Residual for Remaining Projects		$ 114,905.00

The financial status of the Non-Specified Capital Account – Land Drainage is as follows:

Authorized Capital	$100,000.00
Amount of Previous Expenditures	$ 0.00
Amount of this Award	$ 62,500.00

Estimated Interest	$ 1,250.00	
Total Estimated Cost	$ 63,750.00	$ 63,750.00
Estimated Residual for Remaining Projects		$ 36,250.00

FINANCIAL IMPACT:

The following financial impact statement for this project has been prepared in accordance with the recommendation adopted by Council on December 13, 2000.

Financial Impact Statement

Date: May 2, 2008

Project Name: **First Year of Program 2008**

New Capital Project for Funding of Land Drainage Improvements in the Rural Municipality of Macdonald

	2008	2009	2010	2011	2012
Capital					
Capital Expenditures Required	$ 140,250	$ -	$ -	$ -	$ -
Less: Existing Budgeted Costs	140,250	-	-	-	-
Additional Capital Budget Required	$ -	$ -	$ -	$ -	$ -
Funding Sources:					
Debt - Internal	$ -	$ -	$ -	$ -	$ -
Debt - External	-	-	-	-	-
Grants (Enter Description Here)	-	-	-	-	-
Reserves, Equity, Surplus	-	-	-	-	-
Other - Enter Description Here	-	-	-	-	-
Total Funding	$ -	$ -	$ -	$ -	$ -
Total Additional Capital Budget Required	$ -				
Total Additional Debt Required	$ -				
Current Expenditures/Revenues					
Direct Costs	$ 2,750	$ 6,375	$ 6,375	$ 6,375	$ 6,375
Less: Incremental Revenue/Recovery	2,750	-	-	-	-
Net Cost/(Benefit)	$ -	$ 6,375	$ 6,375	$ 6,375	$ 6,375
Less: Existing Budget Amounts	-	6,375	6,375	6,375	6,375
Net Budget Adjustment Required	$ -	$ -	$ -	$ -	$ -

Additional Comments: Funds for this project are included in the Solid Waste Non-Specified Account financed by retained earnings. Funds for this project are also included in the Land Drainage Non-Specified Account financed by Equity in Capital Assets Fund.

"Original signed by M. L. Geer, C.A."

Moira L. Geer C.A.
Manager of Finance & Administration

CT
02-May-08

IN PREPARING THIS REPORT THERE WAS:

Internal Consultation With and Concurrence By:

Environmental Coordinator, Strategic Management Division, CAO Secretariat

External Consultation With:

N/A

THIS REPORT SUBMITTED BY:

Water and Waste Department
Engineering Division, Solid Waste Services Division, Wastewater Services Division
Prepared by: T. Sims, P. Lagasse, C. Trupish and G. Mohr.
File No. 020-10-00-00-00
020-17-07-00-00

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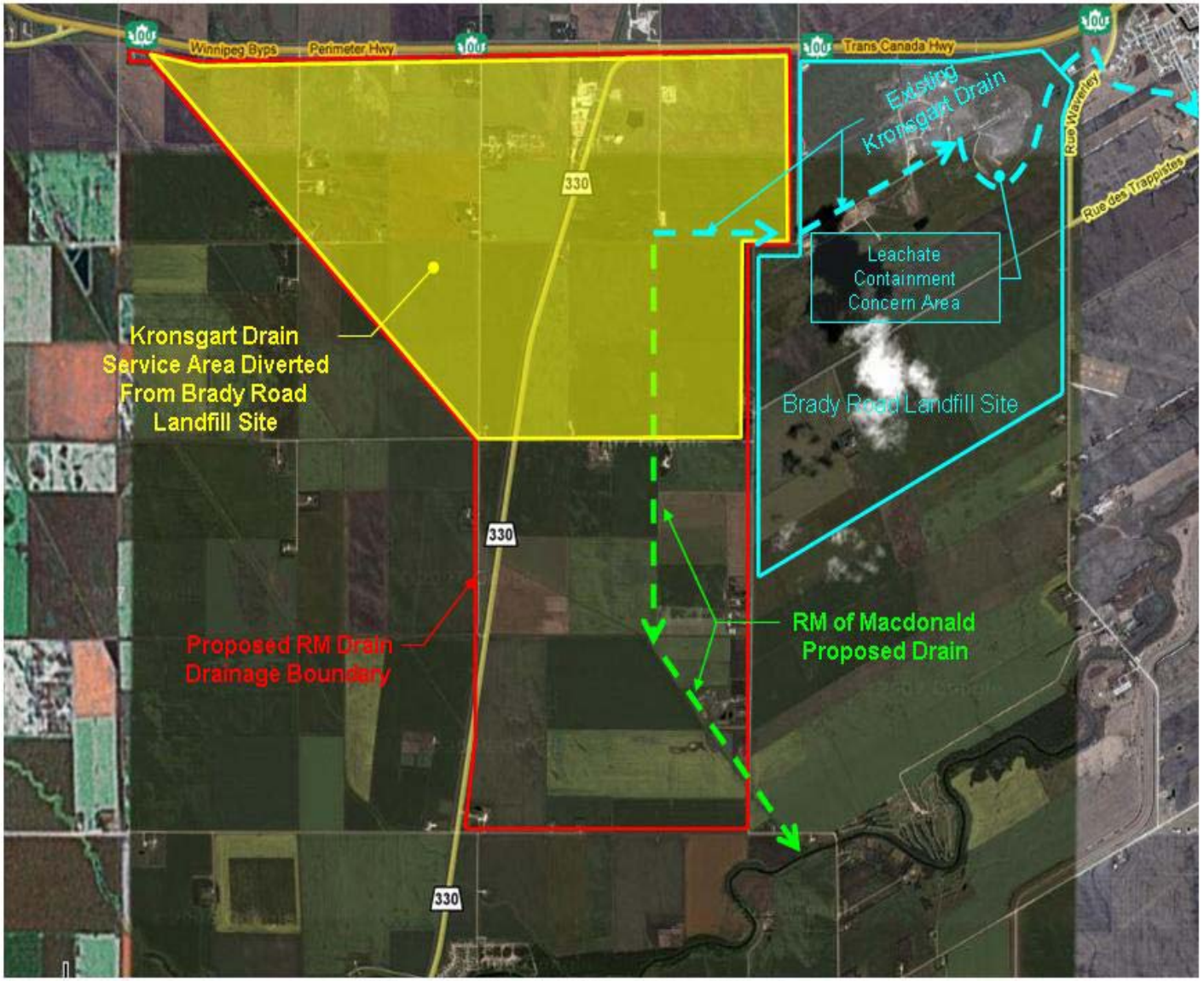


Figure 1 – Kronsgart Drain Area Diversion

6021