

RURAL MUNICIPALITY  
OF  
RITCHOT

**FLOOD PLAN**

## *FLOOD CONTINGENCY PLAN*

The RM of Ritchot is located directly south of the City of Winnipeg and encompasses 336.2 Square kilometres, being approximately bordered by Highway 75 to the West, and highway 59 to the east. The majority of the 5000 residents live within the 4 communities of Ste. Agathe, St. Adolphe , Ile Des Chenes & Grande Pointe, with others in the rurally developed communities of Howden, Glenlea, Labarriere and South St. Germaine.

Four main rivers flow through the RM, these being the Red , Rat, LaSalle and the Seine Rivers. The Red River being the largest of the four, flows in from the U.S. northbound by the Villages of Ste. Agathe and St. Adolphe, through the City of Winnipeg, where it eventually drains into Lake Winnipeg.

The Seine River flows from the South-East through the RM of Tache, through the North east corner of Ritchot and dumps into the Flood way ditch. The Seine River Diversion was built by the Province to help control water levels on the Seine, and it flows from the East directly west into the Red River just 3 miles North of St. Adolphe.

The Rat River flow North/west from the St. Malo Dam emptying into the Red River just North of Ste. Agathe.

The LaSalle flows from the West, along the northern most tip of the RM of Ritchot and empties into the Red River inside the Floodway gates.

The other tributary within the RM being the Manning cannel. which flows from the S/E and dumps into the Seine River Diversion, just to the east of the PTH 59 highway..

Over the last 25 years the RM of Ritchot has sustained spring thaw water levels that has on occasion caused the evacuation of the villages of St. Adolphe, Ste. Agathe, Grande Pointe, and the rurally developed communities of Howden, Glenlea, LaBarriere and South St. Germaine.

This table illustrates the levels reached and whether evacuation required..

<b><u>Year</u></b>	<b><u>Ste. Agathe</u></b>	<b><u>St. Adolphe</u></b>	<b><u>AFA</u></b>	<b><u>Eyacuaction</u></b>
<b>1997</b>	776.5	772.5		St. Adolphe/Ste. Agathe
<b>2009</b>	773.65	769.20	766.75	Volun evac rural residents
<b>1979</b>	773.1	768.3		(St. Adolphe only)
<b>1996</b>	771.9	767.4		no evacuation
<b>2011</b>	771.68	767.15	764.10	Volun evac rural residents
<b>2006</b>	771.5	766.5	764.6	no evacuation
<b>2005(summer)</b>	768.9	765.2	762.4	no evacuation
<b>2001</b>	767.6	763.4	760.28	no evacuation
<b>2010</b>	766.87	762.26	758.97	no evacuation
<b>2004</b>	765.5	762.8		no evacuation

***PRESENT DYKING ELEVATIONS:***

<b>Location:</b>	<b>Dyking</b>	<b>Structure</b>
Ste. Agathe	West dyke 780.5ft East dyke 778.5ft	Permanent Earthen Permanent Earthen
St.Adolphe	775.5ft	Permanent Earthen
Grande Pointe	South-central dyke 775.3ft North dyke 775.9ft East dyke 773.9ft	Permanent Earthen Permanent Earthen Permanent Earthen

- Most residents living outside the Ring dyked communities, within the RM of Ritchot, have taken advantage of the 1997 Federal/Provincial Flood Proofing Program and have protected their critical infrastructure by earthen ring dykes to the 1997 + 2 foot mark. To determine a persons exact Dyke Elevation and refer to WEB SITE : <http://geoapp.gov.mb.ca/website/rrvfp>.

### POPULATION IN FLOOD PLAIN

#### Homes within community dykes

Ste. Agathe	220 Homes x 3	= 660
St. Adolphe	421 Homes x 3	= 1263
Grande Pointe	<u>230</u> Homes x 3	= <u>660</u>
	<b>871 Homes x 3</b>	<b>= 2613 residents</b>

Estimated Homes residing within floodplane, (not in a community dyke)

**970 Homes x 3 = 2910 residents**

#### **PTH 75 Northbound lanes**

Winnipeg to PR210 (St. Adolphe)	234.6 meters	or 769.69
PR 210 to PR305 (St. Adolphe to Ste. Agathe)	235.1 meters	or 781.33
PR 305 to PR205 (Ste. Agathe to Aubigny)	236.7 meters	or 776.57

#### **PTH 75 Southbound lanes**

Winnipeg to PR210 (St. Adolphe)	234.2 meters	or 768.37
PR210 to PR305 (St. Adolphe to Ste. Agathe)	234.8 meters	or 770.34
Pr 305 to PR205 (Ste. Agathe to Aubigny)	236.7 meters	or 776.57

#### **PR 210**

PTH 75 to St. Adolphe dyke	235.0 meters	or 771
PR 200 to Coulee	233.5 meters	or 766.08
Coulee to Railway tracks	234.5 meters	or 769.36
Railway tracks to PTH 59	235.5 meters	or 772.64

#### **PR200**

Floodway to Richardson	760.4 feet
Richardson to Leclaire Rd	763.1 feet
Leclaire to twin Creek	762.6 feet
Twin Creek to PR210	763.1 feet
PR210 to Leblanc Rd	yet to be provided

Leblanc to Gauthier	yet to be provided
Gauthier and Stott	yet to be provided
Stott and PR311	yet to be provided
PR311 and Fontaine Rd	yet to be provided
Fontaine Rd and PR305	
PR305 and Municipalities south boundary	

### **CRITICAL INFRASTRUCTURE:**

- Water plant in Ste. Agathe, Located PR 305 and Lemoine Street is protected to a height of 775.5 feet.
- Water plant in Ile Des Chenes , Located Leclair Rd. is protected to a height of 238M or 780.9 feet.
- Sewage Lift station, by Ste. Agathe Canola plant, located just north of plant protected to a height of 237.3 meters or 778.6feet.
- Sewage Lift station, Ile Des Chenes, located Main Street and Dumaine Street protected to a height of 236.7meters or 776.61 feet.
- Sewage Lagoons, St. Adolphe, Located on North side of Leblanc Rd. East of St. Adolphe protected to a height of 235.3 meters or 772 feet.
- Sewage Lagoon, Ile Des Chenes, Located South west on Habitant Rd. protected to a height of 237.2 meters or 778.2feet.
- Nuisance grounds, IDC/ St. Adolphe, Located\_ Bernat Rd.is protected to a height of 236.5 meters or 776 feet.
- RM of Ritchot main Water treatment plant situated at PR 305 at St. Agathe protected to a height of 237 meters or 777.6feet..

**Note:** All elevations and locations of Critical infrastructure in relation to the RM of Ritchot property provided by the Municipalities Water and sewer Superintendent Jeannot Robert.(retired)

### ***FLOOD MANAGEMENT PRIORITIES***

#### ***EMERGENCY SERVICES: (police, fire, ambulance, public works)***

- ❑ *Preservations of lives and safety of Municipal Residents.*
- ❑ *Preservation and protection of real and personal property*

- ❑ *Fulfilment of day to day responsibilities.*
- ❑ *Assist in critical infrastructure protection.*
- ❑ *Assist residents with private property protection.*
- ❑ *Support ESS for stranded and evacuated persons.*

### **PRE-EMERGENCY FLOOD EVENT**

- Approximately February each winter Mb. Waterstewardship provides information as to Spring flood expectations.
- Approximately Mid March Mb. Waterstewardship holds a flood meeting for Southern Manitoba communities.
- Emergency Coordinator to meet with RM staff to ensure web page is updated in a timely fashion and formatted appropriately.
- Emergency Coordinator shall ensure an Emergency coordinators report is developed reiterating what is stated by Waterstewardship and placed on our Web page.
- Place Emergency Coordinators report on web page advising residents to check culvert gates, move equipment to higher ground etc.
- Ensure electrical panel is removed from St. Adolphe park
- Contact EOC staff to determine availability and ensure they are kept abreast of the situation.
- Contact Canada Post to ensure they are kept abreast of flood situation with mail contingency plans developed.
- Contact Manitoba Livestock to ensure they are kept abreast and contingency plans developed.
- Contact Seine River School Division, and Franco Manitobaine School Division and ensure they are kept abreast and contingency plans are developed.
- Contact SERHA and CRHA to ensure home care clients in effected areas are kept abreast of situation and contingency plans developed.
- Contact St. Adolphe nursing home to ensure they are kept abreast of situation and contingency plans are developed.

- Contact MTS and have EOC phones lines activated.
- Contact React mobile signs and have roadside signs directing Ritchot citizens to the website for information.
- Contact Sand Bag companies to ensure stock is available.
- Contact trucking companies to ensure phones and stock is available.
- Contact Guertin Implement for rental of tractors for Ste. Agathe dyke closure is needed.
- Meet with Council and provide update and receive instruction as to how we want to proceed with event.
- Establish EOC in Firehall #1/Emergency Center.
- Ensure Office equipment is stocked. Ie: markers, pens, computer ink, paper etc
- Contact Jake Courcelles to assemble staff to operate tractors for Ste. Agathe tractors.
- Attend MTS and activate phone (pay as you go) for sand bag line.
- Contact RM fire chief to ensure water rescue is available.
- Contact Conservation to determine availability of conservation officers to patrol flooded areas.
- Establish vulnerable persons list to be provided to Provincial ESS. Ie: persons not signed up for homecare through SERHA

***EMERGENCY FLOOD EVENT:***

- Ensure council implement emergency plan, whole or in part.
- If required, decide if declaration of state of local emergency is required.
- If required, issue emergency prevention order,
- Fax declaration to EMO
- Make public announcement to the public as to why declaration made.

- ❑ Establish EOC.
- ❑ Ensure Media/inquiry centre established and operational
- ❑ Ensure Emergency Control Group available to run emergency.
- ❑ Ensure EOC management team reports to EOC.
- ❑ Ensure communication system is established.
- ❑ Keep constant liaison with Water-stewardship as to extent of flood.
- ❑ If site manager required, CAO/MAYOR/COUNCIL decide who it shall be:  
Ie: incident command structure
- ❑ Assign flood watch crews.
- ❑ If required, conduct dyking operations.
- ❑ Implement evacuation guidelines.
- ❑ Ensure security maintained in evacuated communities.
- ❑ Direct equipment to areas as required.
- ❑ Implement animal care and control program

***POST EMERGENCY FLOOD CONSIDERATION:***

- ❑ Terminate of Local emergency.
- ❑ Notify Mb. EMO of termination.
- ❑ Assess damages to area for Disaster Financial Assistance.
- ❑ Consult with Mb. Water Stewardship to assess re-entry water levels.
- ❑ Consult with highways and transportation, roads, bridges etc.
- ❑ If required, restore utilities.
- ❑ Consult water/sewer to ensure properly functioning to homes.
- ❑ Initiate re-entry.



### IMPORTANT NUMBERS FOR FLOOD

❖ Canada Post	Gilles Delaquis Cell	###-#### ###-####
❖ Activate EOC phones		#-###-###-####
❖ Manitoba Hydro/Gas shut off	24hour	###-####
❖ Manitoba Hydro (outage)	PH# PH#	###-#### #-###-###-####
❖ Mb Livestock (Heather Martin)	Office# Cell#	###-#### ###-####
❖ Seine River School Division (Transportation Mgr)	PH#	###-####
❖ Franco Manitobaine School Div	PH#	###-####
❖ Johnson Waste Management Jeff Johnson (30 yard container)	PH# <a href="mailto:jjohnson@jwm.mb.ca">jjohnson@jwm.mb.ca</a>	###-####
❖ St. Boniface Bag Co.	PH#	###-####
❖ Guertin Implements Parker Sutherland (5420 utility tractors)	PH# <a href="mailto:psutherland@guertinequipment.com">psutherland@guertinequipment.com</a>	###-#####
❖ EMO 24 hour number	PH#	###-####
❖ React Signs	PH#	###-####
❖ Flood Liason (Wpg)	PH#	###-####
❖ Mb. highways info line	PH#	1-877-627-6237
❖ Mb. Hydro Emergency Number	PH#	1-888-624-9376
❖ Dike Elevations (Brad Allum)	PH#	###-####
❖ Wpg humane Society	PH#	982-2021
❖ Floodway gate level line	PH#	###-####

❖ MAFRI (cattle/pigs etc)	PH#	###-####
❖ Salvation Army (Brian Timmerman)	PH#	###-#### ###-####
❖ Phillip Mutula Water Stewardship	PH#	###-####
❖ Dept of highways (Gary Dyck)	PH#	###-####
❖ MIT Bob Stewart	PH#	###-####
❖ N.W.S Hydrological Prediction Service		
❖ Dept of highways	PH#	###-####
St. Norbert	PH#	###-####

\* For details in regards to the Municipalities Transportation plan, Evacuation and re-entry plan, refer to attached documents and/or master emergency plan.

**Activation of MTS Landlines:**

Presently the St. Adolphe EOC has the availability for 16 phones lines which are wired to "the demarc." Due to MTS restrictions only seven (7) additional phone lines are available to the EOC. The Seven lines all have jacks running along both the East and West wall of the Emergency Center. (use bottom inputs as these are the ones activated)

Ritchot's Emergency telecommunication plan has been filed with MTS with the telecommunication manager or designate requiring to call #-###-###-####, to activate the lines. They must be advised that our temporary disconnect lines are under ph# ###-####

The Seven(7) phones assembled and are placed on a shelf within the St. Adolphe Emergency Operation Center. The phones and jacks have corresponding phone numbers. The Communication Manager or designate will ensure the phones are placed into the proper jack by matching the phone numbers to the jacks..

- Emergency Coordinator PH# ##-#### PH# ###-####  
PH# ###-#### FAX# ###-####
- 883-#### temporary disconnect
- 883-#### " "
- 883-#### " "
- 883-#### " " (inquiry line)
- 883-#### " "
- 883-#### " " (Automated message line  
On Call answer)
- 883-#### " "

**AUTOMATED MESSAGE LINE:** Call from 883-####0 call 225-9999 and walk through prompts to change message.  
Security code is phone number (ie: ###-####)

### STE.AGATHE:

(Manitoba Water Stewardship Flood Operations manual dated June 2006)  
Reference Page 12-13, and Appendix G)

1. Superintendent contact RM of Ritchot for traffic control assistance
2. RM of Ritchot responsible for special pumping. Appendix G
3. During Dike closure Rm to inform local residents of dike closure
4. During potential breach, RM to inform residents of potential breach.
5. If water overtopping dike, RM to inform residents of condition and RM to Implement emergency plan.

### APPENDIX "G"

RM of Ritchot is responsible for interior drainage pumping. There are three conditions that will require set-up of temporary pumps for internal drainage.

### CONDITION #1

#### OPERATION OF GATES AND GRAVITY OUTLETS AND CLOSING OF VALVE CHAMBERS LOCATED ALONG THE EAST DIKE.

1. Regional water manager alerts RM of Ritchot of need to set up pumps.
2. RM of Ritchot readies designated pumps to be set up at all gravity outlet/valve chamber sites.
3. Regional Water staff monitor river levels and advises RM to have staff available
4. Rm of Ritchot crew operates pumps as required

5. As river recedes Regional Water manager advises RM crew to be placed on standby.
6. Regional Water Manager will notify the RM of Ritchot to remove pumps.

## CONDITION #2

### CLOSURE OF DIKE OPENINGS ALONG WITH OPERATION OF GRAVITY OUTLETS AND CLOSING OF VALVE CHAMBERS LOCATED ALONG THE EAST DIKE :

1. Regional Water Manager alerts the RM of Ritchot of need to set up pumps
2. RM of Ritchot readies pumps and arranges for additional pumps as required
3. RM of Ritchot arranges for pumps to be set up as required
4. Regional Water Manager monitor water level and advise RM of Ritchot to have Crew ready for pumping
5. Rm ofRitchot crew operates pumps as required.
6. As river recedes Regional Water Manager advises RM crew to be placed on standby
7. Regional Water Manager will notify the Rm of Ritchot to remove pumps

## CONDITION #3

### EXTREME LOCAL RAINFALL EVENTS

1. Regional Water Manager alerts RM of Ritchot of need to set up pumps
2. RM of Ritchot readies the pumps and arranges for additional pumps as required
3. RM of Ritchot arranges for pumps to be set up at gravity outlet/valve chambers
4. RM of Ritchot crew will operate pumps as required.
5. As water recedes Regional Water Manager will notify RM of Ritchot pumps maybe placed on standby
6. As threat has ended, Regional Water Manager will notify RM of Ritchot to remove the pumps.

## Major Gravity Outlet Structures

All these locations, pumping will normally be initiated when internal drainage water levels reach 1 foot below the local prairie level.

GS-1 (river lot 575 east dike)  
 Invert elevation (river side)                      768.36ft  
 Top of pipe elevation (interior dike) 771.32ft

Prairie level 770.99ft  
 \*Pumping to be initiated when internal drainage water level reaches 770.00ft

GS-2 (river lot 563 east dike)  
 Invert elevation (riverside) 759.60ft  
 Top of pipe elevation (interior dike) 765.51ft  
 Prairie level 770.99ft  
 \*Pumping to be initiated when internal drainage water level reaches 765.51ft

GS-3 (river lot 547 east dike)  
 Invert elevation (riverside) 762.69ft  
 Top of pipe elevation (interior dike) 776.62ft  
 Prairie level 774.30ft  
 \*Pumping to be initiated when internal drainage water level reaches 766.62ft

### **GRANDE POINTE**

(Manitoba Water Stewardship Operations and Maintenance  
 manual Grande Pointe flood protection, June 2005 )

Ref Pages: 8-1, 8-2, 9-1, 9-2

- Responsibility for Dyke closure is the responsibility of the Superintendent of Water Stewardship, with the RM of Ritchot providing personnel for traffic control.
- The Superintendent is responsibility to communicate with local authority.
- Foreman responsible for Sandbag operations and transportation.
- Dyke Closure, Dyke Breaching or dyke over topping - Tthe HFC(Water Stewardship) will advise the RM of Ritchot who are required to inform the local contacts, businesses etc.
- During Dyke Breaching or Over topping - Authorities may consider ordering an evacuation of all non-essential personnel.

### **ST.ADOLPHE**

(Operation and Maintenance manual, Village of St. Adolphe  
 Flood protection works, November 1994)

Ref Pages: (13, 14, 15)

- Overall Authority rests with the Regional Engineer Operations-Niverville
- Superintendent contact the Village for assistance with personnel for traffic control.
- No Dyke Closure required - Department of Natural Resources (DNR) to advise Village of peak and time.
- No Dyke closure needed but pumping stations activated - DNR to advise the Village of peak and time.
- Dyke closure required – Manitoba River Forecast Centre (FRC)- fax predicted levels to village. Village to inform all local contacts, ie: businesses etc)
- Possible Dyke Breaching – (RFC) Faxes predicted levels to Village (R.M.), village to inform all local contacts.
- Likely Dyke overtopping condition – (RFC) Faxes predicted levels to Village (R.M.), Regional Engineer of Operations will inform Village (R.M.) of predicted peak elevation, that may result in the village implementing the emergency plan. Village to inform all local contacts.
- If, Dyke Closure, Dyke Breaching or dyke over topping the HFC(Water Stewardship) will advise the RM of Ritchot who is required to inform the local contacts, businesses etc. During Dyke Breaching or Over topping Authorities may consider ordering an evacuation of all non-essential personnel.

### **EOC POSTIONS;**

Emergency Coordinator	Harold Schlamp
Assistant Coordinator	Paul Houle
Ste. Agathe pumping	Name deleted
Volunteer Coordinator	Name deleted
Evacuation Staff	
Inquiry centre staff	
Sandbag delivery	

## EOC Staff

\*Names deleted out of interest of privacy

### FORMS:

Vulnerable persons form:	printed in blue paper
Evacuation forms:	printed on red paper
homeowner requiring assistance (sandbagging)	printed on green paper
Individuals offering to assist (sandbagging)	printed on purple paper
Groups offering to assist (sandbagging)	printed on yellow paper

### EOC PHONE LINES

Inquiry line	883-#### with answering machine attached
Volunteer line	883-####
Water level line	883-#### has mts answering machine attached
Evacuation line	883-####
Sandbag line	consider rental of cell phone (pay as u go)