DOCUMENT CHANGE REQUEST FORM

Requested By: QMS Team **Date:** March 8, 2017

Department: O. & F. Division

Type of Change:

✓ **Edit Existing Document** **Create New Document** **Delete Document**

Changes Requested:

2. Element 8 Risk Assessment Outcomes

Justification for Changes:

The following section is being revised to update the Town of Fort Frances Drinking Operation Plan.

2a) Page 30 – subsection 8.2 Town of Fort Frances Risk Assessment: Chart amended to

i. clarify hazard "Rail car derailment".
ii. include the potential hazard – Fuel Storage Tanks

2b) Page 35 – subsection 8.2 Town of Fort Frances Risk Assessment: Chart amended to include chart description header, missing

Proposed Changes:

2a) Page 30 – subsection 8.2 Town of Fort Frances Risk Assessment: Chart amended as follows:

i) wording "Rail car derailment" amended to read "Railway Activity"
ii) the potential hazard of Fuel Storage Tanks identified in the source water protection pre-screening survey has been added. See attachment.

2b) Page 35 - chart description header added. See attachment.

Approval:

QMS Representative: [signature] **Date:** 22-03-2017

Comments:

TOWN OF FORT FRANCES RISK ASSESSMENT

Element or Process Step	Description of Hazard	Potential Result of Hazard	Comments	Available Monitoring & Control Measures	Emergency Procedure or Contingency Plan	Likelihood	Severity	Detectability	RISK PRIORITY NUMBER	CRITICAL CONTROL POINT	CRITICAL CONTROL LIMIT	Control Procedure
Source Water	Railway Activity ~~car derailment~~ (Spill of chemical or contaminant)	Chemical/ Biological Contamination of source water	Depends on location and type of Contamination	Notification to MOE Spills Action Centre of the spill and potential for contamination of source water.	Shut off raw water intake line valve. Stop producing water until plume passes. Run off water tower. Implement water restriction. Haul water, if necessary. Test water raw & treated.	1	4	3	8	YES	No Controllable limit	Refer to Emergency Response Binder (ERB) – S.O.P. #6 for Raw Water Source Contamination
	Highway Accident (Spill of chemical or contaminant)	Chemical/ Biological Contamination of source water	Depends on location and type of Contamination	Notification to MOE Spills Action Centre of spill and potential for contamination of source water.	Shut down intake. Stop producing water until plume passes. Run off water tower. Implement water restriction. Haul water, if necessary. Test water raw & treated.	1	2	1	4	NO		
	Fuel Storage Tanks	Chemical/ Biological Contamination of source water	Depends on location and type of Contamination	Notification to MOE Spills Action Centre of spill and potential for contamination of source water.	Shut down intake. Stop producing water until plume passes. Run off water tower. Implement water restriction. Haul water, if necessary. Test water raw & treated.	1	4	2	7	NO		
	Proximity of septic fields on Rainy Lake	Biological Contamination of source water		Conventional water treatment operations to treat source water. Weekly bacteriological testing of raw & treated water. Continuous monitoring for chlorine & filtered water turbidity.		1	1	5	7	NO		

TOWN OF FORT FRANCES RISK ASSESSMENT

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Distribution	Loss of pressure due to a water main break or major fire	Biological & Chemical Contamination		Customer Complaints, low level alarm at water tower.	If system pressure compromised and potential for backflow exists, report to MOH & MOE SAC. Follow procedure for water main breaks and repairs. Refer to Emergency Response Binder (ERB) – S.O.P. #3 for Water Main Breaks and Repairs.	3	2	3	8	YES	Tower: 6m – 8m Reservoir: 3600mm – 5000mm	See Appendix "D" Standard Operating Procedure for Flushing of Water Mains
	Cross Connection	Biological & Chemical Contamination	Backflow prevention devices	Visual / high risk.	If backflow suspected, report to MOH & MOE SAC. Isolate area, flush the system and sample as needed. Re-pressurize system.	1	3	4	8	YES	No Controllable limit	See Appendix "D" Standard Operating Procedure for Flushing of Water Mains
	Water Tower Structural / Contaminated	Quantity/ Quality Biological & Chemical Contamination		Low pressure/Low level.	Isolate water tower.	1	2	3	6	NO		
	Hypo Pump Failure (Plugged)	Biological & Chemical Contamination		Low chlorine residual in distribution system.	Switch lines, repair/replace defective pump with spare pump at water plant/tower.	3	1	3	7	NO		
	Bio-film	Quantity/ Quality		Weekly checks	Refer to Appendix "D" S.O.P. for Flushing of Water Mains	1	3	3	7	NO		