



CONTINGENCY PLAN Municipality of Machin

Machin 09-10

Vermilion Bay Water Treatment & Distribution Systems

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Problem: **Low Pressure in the
Distribution System**

Contact Info: Overall Responsible Operator
(ORO), Operator-In-Charge (OIC),
Ministry of Health (Northwestern
Health Unit), Ministry of the
Environment (Spills Action Centre),
Municipality of Machin,
Clerk/Treasurer, Vermilion Bay Fire
Department

- Procedures:**
1. Notify the ORO and OIC. Notify the Fire Department anytime distribution pressure drops to a low point (below 20 psi) which would limit their ability to fight a fire, if the duration is anticipated to persist for any significant period of time.
 2. It is important to ensure that positive pressure is maintained in the watermains at all times. Where low pressure (below 20 psi) or negative pressure is encountered it should be reported to MOE's Spills Action Centre and the Ministry of Health (Northwestern Health Unit) under section 16-4 (Duty to Report Other Observations) of O. Reg. 170/03.
 3. Wherever low distribution pressure and/or negative pressure is encountered, the Ministry of Health will likely issue a boil water advisory.
 4. Determine the cause of the low distribution pressure. When the cause has been determined (i.e. high lift pump failure, diesel generator failure, watermain break), refer to the appropriate contingency procedure.
 5. When distribution system pressure is restored, increase the chlorine feed rate to achieve a free chlorine residual of 2.00 mg/L.
 6. Flush watermains until the water flows clear and until a free chlorine residual of 2.00 mg/L can be measured at all points within the distribution system.

7. Collect bacteriological samples and send to ALS Laboratories in Thunder Bay. A minimum of two consecutive sets of samples taken 24 to 48 hours apart will be required to rescind the boil water advisory.
8. Maintain a free chlorine residual of 2.00 mg/L at all points within the distribution system until the boil water advisory has been rescinded.
9. If any water samples collected indicate adverse water quality, as determined by O. Reg. 169/03, refer to contingencies for the appropriate adverse water sample parameter.
10. Take other such steps as directed by the ORO, OIC, Medical Officer of Health and/or Ministry of the Environment (Drinking Water Inspector).