		S	STANDARD OPERATING	PΙ	ROCEDURE					
SOP # 9 REASON CODE:	D3—Inadequately treated water was introduced into the system due to fire flows, flushing operations, interconnections, minor power out age, or other pressure loss.						REV:	0	DATE:	Dec. 2015
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BWA CAUSE	RECOMMENDED STEPS TO ADDRESS BOIL WATER ADVISORY						IMPLEMENT PREVENTATIVE MAINTENANCE			
IDENTIFICATION		7					DAILY			
Campleto Assessment Total	Implement Short Term Corrective Measures		Implement Long Term Corrective Measures		Capital Works Funding				record flow	rates. n and treatment logs.
Cause #1 Inadequately disinfected water introduced into system due to fire flows, flushing operations, interconnections, power outages, or pressure loss.	Owner to confirm existing equipment is in flow proportioning mode if this function is available on the unit. Owner to eliminate interconnections that may introduce inadequately treated water into the distribution system. Upon correcting interconnections and restoring pressure to distribution system, flush the system (unidirectional). Owner to increase disinfectant residuals in the distribution system in accordance with provincial disinfection standards. Confirm Operation and Lift BWA Owner to test disinfectant residuals to confirm compliance with the Drinking Water Treatment Standards. Owner to contact Service NL office to request an Environmental Health Officer to re-sample the drinking water system for compliance with provincial drinking water bacteriological and disinfection standards.		 □ Owner to install a flow proportioning disinfection system (if not already installed) so chlorination system keeps pace with the increase in flows during flushing and fire flows. Alternatively, chlorine dosage may be increased manually during flushing and fire flow events. □ Owner to install backflow prevention assemblies and devices and maintain as required. □ Owner to provide new disinfection system for any new water sources. □ Maintain adequate pressure in the system to prevent backflow and back siphonage by installing booster pumping stations, variable frequency drive pumps (VFD's), elevated storage facilities, surge tanks and relief valves, and modify high service pumps. Install automatic pressure monitoring and control. □ Owner to install back up power for disinfection system to ensure system operates during power outages. □ Owner should provide opportunities for training to increase operators knowledge associated with cause and corrective measures. □ Owner should ensure operators have appropriate level of training/education to allow operators to be eligible for certification in accordance with provincial standards. Operator training may be obtained via ACWWA, on-line courses, and MAE Operator Education, Training and Certification. 		 □ Contact nearest MAE regional office to initiate evaluation of existing water infrastructure. □ Owner to work with stakeholders (MAE, engineering consultants, etc.) to identify sustainable options. □ Owner to make an application to MAE for project funding. Online applications can be made at: http://www.mae.gov.nl.ca/capital_works/cwfunding.html. 		□ Visua feed □ Meas resid (first WEEKL) □ Visua and 6 MONTHI □ Inspersore as no repla and i 3 MONTI □ Clear □ Inspersora conta stora ANNUAL □ Inspersora feeter publice For more maintena	al inspectines. Sure and sure	record chemical record free and spillway malfunction of chloric record in comparison of chloric record in collision o	ical feed pumps and nical usage. and total chlorine stribution system d branch lines). ne injector for leaks mal. structure, intake a and order supplies up is available, with back-up pump