



Town of Happy Valley-Goose Bay
Policy Statement

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| Index: Public Works | | Policy Number: PW0029 | |
| Approved Date: September 20, 2005 | Effective Date: September 20, 2005 | Revision Date: May 28, 2013 | |
| Authority: 10th Council of the Town of Happy Valley-Goose Bay | | Page 1 of 2 | |

Topic: CHLORINE LEAK POLICY

Policy Statement:

The following is a step-by-step procedure developed by the Town of Happy Valley-Goose Bay to deal with chlorine leaks at the Water Treatment Plant.

First of all there are two ways that a chlorine leak can be reported. The first way is that it can be reported by the Water Treatment Plant operator which will usually be during regular working hours. The second way is that it can be reported to the Fire Hall by the auto dialer system built in to the Water Treatment Plant.

Once a leak is reported, the following procedure shall be followed:

1. Each chlorine leak, either liquid or gas is to be treated as an emergency.
2. If the leak occurs after regular working hours, a Water Plant Operator will be called to the site. If not available, a member of the Water and Sewer Team will be dispatched to the site to assist in repairing the leak.
3. No repair shall be attempted until the Fire Department is on site and in standby mode.
4. The Water Treatment Plant Operator will take charge at the site and determine the nature and severity of the leak. The leak will be classified either chlorine liquid leak, major chlorine gas leak or minor chlorine gas leak.
5.
 - a). If the chlorine gas leak is determined to be large, the operator in charge and a fireman shall suit up in the Haz Mat suits complete with SCBA and boots and repair the leak.
 - b). If the chlorine gas leak is determined to be minor, the operator in charge along with an assistant shall wear long sleeves, long pants, gloves and an SCBA and repair the leak with the Fire Department in standby mode with SCBA in place.



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c). If the chlorine leak is determined to be in liquid form, the operator in charge and a fireman shall suit up in the Haz Mat suits complete with SCBA and boots and then rotate the cylinder so that the leak is in the gaseous state and then repair the leak.

6. **Another very important point is never use water to hose down the area of a liquid chlorine leak.** Liquid chlorine requires heat to vaporize into gas, liquid chlorine quickly cools the surface and evaporates very slowly. If water is added, it becomes a heat source and the liquid chlorine vaporizes much faster. Another caution to remember is while around a liquid chlorine spill, footwear may freeze to the ground or surface if stepped in causing problems maneuvering.
7. Please remember to treat all chlorine spills either liquid or gas as an emergency. If handled properly and treated with care and caution while repairing, injuries can and will be prevented.
8. HazMat Suits to be stored at the Fire Hall.
9. All suits to be decontaminated/cleaned and tested after use.