

BASIC SAFETY CHECKS

for

Water Treatment Plants and Truckfill Stations

Material Safety Data Sheets (MSDS):

- MSDS posted or readily available for all chemicals used in the plant.

Worksite Hazardous Material Information System (WHMIS) Labeling:

- Chlorine/chemical containers properly labeled with WHMIS Supplier Label.

Safety Training:

- WTP Operator has WHMIS Training.
- WTP Operator has first aid training or can identify one person on staff with first aid training.
- WTP Operator participates in regular safety meeting with the rest of the Works Department.

WTP Operator Can Identify:

- All WHMIS symbols associated with chemicals used in the plant.
- First aid and emergency response procedures for all chemicals used in the plant.
- Storage and safe handling procedures for all chemicals used in the plant.
- Spill response procedures.
- Emergency evacuation and critical fire fighting responses.

First Aid Kit:

- Truckfill station has one NWT #1 First Aid Kit in weather-proof container.
 - Should contain: first aid manual and record book, surgical gloves, CPR pocket valve mask, various size bandages, surgical tapes, safety pins, antiseptic towelettes, tweezers, blunt scissors.
- Sign is posted saying where the first aid kit is.

Eyewash Station:

- Properly signed and clearly visible.
- Works (if plumbed in), and checked regularly.
- Full (if portable), and there a schedule for changing the bottles.

Fire Protection:

- Fire extinguisher is BC type (Not ABC – ABC extinguishers may contain ammonium compounds that can react explosively with chlorine).
- Tag on fire extinguisher is current for monthly inspections and annual maintenance
- Gauge indicates pressure is OK (if stored pressure extinguisher).
- Local Fire department is aware of hazards associated with chemicals in the truckfill station/WTP.

Personal Protective Equipment (PPE):

- Chemical Safety glasses with side shields or full face shield readily available.
- Respirator (NIOSH approved with chlorine cartridge with dust/mist prefilter).
 - Respirator stored in sealed container or bag.
- Gloves (rubber, neoprene or PVC).
- Chemical resistant apron or coveralls.
- Chemical resistant footwear.
- All PPE used when handling or mixing chlorine/chemicals.

Housekeeping:

- Entrance and exit stairways are cleaned from ice and snow.
- Work area is free of hazards - no boxes, equipment or other hazards blocking entrances, exits, stairways or walkways on either the inside or outside.
- Underground water reservoir access ports are securely covered.
- Work area is clean and swept.
- Log book and other documentation is readily available.

Signage:

- Hazard sign on door of truckfill station.
- MSDS, First Aid Kit and Eyewash Station locations are clearly marked.

Ventilation:

- Air handling system provided for chemical storage and mixing areas.

Chemical Storage:

- Chemical storage area is clean and dry.
- Chemical containers are properly sealed and vented as required.
- Incompatible chemicals are not stored side by side.

Spill Containment and Response:

- Spill containment is provided for fuel storage areas.
- Spill containment is provided for chlorine and other chemical containers.
- Floor drain drains to a sump (not to the outside or to a sewer), or otherwise allows for spill containment.
- A Spill Response Plan is in place.

Emergency Response:

- An Emergency Response Plan is in place.

Laboratory:

- Lab area is clean and well organized.
- Reagents are stored in cool, dark, dry area.
- Equipment is stored properly.

Structural:

- Handrails are securely in place on stairs and elevated platforms.

Mechanical:

- Guards are in place on pumps where applicable.

Electrical:

- Panels are located away from chemical storage and mixing areas.
- Panels are kept closed and locked.
- Electrical equipment and panels are checked for corrosion regularly.