



Operation & Maintenance of Sewage Lift Stations

Record Keeping

- It is important to keep detailed records of lift station visits and to file these records in an easily accessible location
- Lift station log book should include:
 - Station Identification Number
 - Lift Station Inspection Form
 - Station Description
 - Equipment Data Sheets
 - Emergency Plan
 - Preventative Maintenance Plan
 - Safety Instructions

Maintenance Assurance Manual inspection templates are available (mae.gov.nl.ca/for/mam.html)

Maintenance

Daily/Weekly

- Visually/audibly inspect the lift station
- Record pump hours for each pump. Check for uneven pump run times.
- Wash down the wet well
- Check for sand and sludge accumulation
- Check for indication of high water levels
- Inspect lights and alarm systems
- Complete inspection form

Monthly

- Visually inspect each pump for proper pumping (run each pump by manual control, watch level rise and fall)
- Pump down wet well to lowest point, and make visual inspection
- Check wet well floats
- Exercise suction and discharge valves
- Test back-up generator for reliability
- Complete inspection form

Quarterly

- Remove excessive grit & grease with VAC truck
- Test generators, under load, for 15 minutes
- Inspect pumps (visually check pumps and piping for defects, record amperage readings for each pump)
- Floats should be cleaned and inspected

Annual

- Inspect electrical equipment (burnt wiring/connections/components, corrosion, or moisture)
- Wet wells should be pumped and cleaned
- Submersible level sensors (if applicable) should be cleaned using mild detergent
- Inspect and clean check valves.
- Pull pumps and perform pump inspection (check impeller wear; water in oil/coolant; water/oil/coolant in the stator housing)

Other Duties

- Respond to all lift station alarms
- Keep surrounding area of lift station clean

Safety Considerations

- Two operators should always be present when conduct lift station operation and maintenance
- Operators entering a confined space must be trained and follow proper protocols including atmospheric monitoring and obtaining an entry permit
- Wear appropriate Personal Protective Equipment (PPE) – hardhats, safety shoes, vests, gloves, ear plugs, etc.
- Operation and maintenance activities on electrical equipment should be performed by a qualified electrician