



**DEPARTMENT OF UTILITIES  
Water Plant & Facilities**



## **CORROSION CONTROL OPERATIONS PLAN**

### **General Information**

- Chemicals used for corrosion control are purchased in 300 gallon totes. Chemical totes not in use are stored in the Water Treatment Plant chemical tote storage area.
- Corrosion control chemical feed pumps include two LMI series C chemical metering pumps and a booster pump for injection.
- Corrosion control chemical addition is injected into piping containing GLWA water as it enters Water Treatment Plant grounds in Control Station #2.
- Chemical dosages are set by operations staff in accordance with recommendations from regulatory agencies.

### **Operations**

- Operation and condition of the chemical feed pumps and corresponding booster pump is verified hourly by operations staff.
- Chemical feed pump volume is verified hourly via graduated cylinder by operations staff and adjustments are made as necessary.
- Chemical feed pumps do not require calibration, maintenance is performed as necessary. Maintenance involves replacing pump diaphragm and/or check ball valves.
- Laboratory testing of phosphate levels of incoming GLWA water and Flint finished water are analyzed once daily and compared with chemical application rate.
- Other water quality parameters are also analyzed once daily on finished water by laboratory personnel.

