

## 7.0 MONITORING

---

A monitoring program is currently being developed and will be revised as the detailed design and project schedule are finalized in consultation with the appropriate regulatory authorities. An environmental monitor will be on-site on a regular basis through the construction period and operation/maintenance phase. The environmental monitor will be responsible for ensuring compliance with all applicable environmental regulations, licence/approval conditions, and best management practices associated with the activity(s) being carried out.

Water quality monitoring will be conducted at the discharge point to Bernic Creek as well as downstream and upstream of the Bernic Creek and the Bird River. Water quality results will be compared to Manitoba Water Quality Standards, Objectives and Guidelines to ensure compliance. Water level loggers will be run continuously at the stations during dewatering.

Water and effluent quality monitoring will also be conducted to ensure compliance with the Metal Mining Effluent Regulations and TANCO's environmental effects monitoring program. TANCO will consult with Environment Canada and the provincial Technical Advisory Committee regarding the establishment of monitoring stations, including a reference location, prior to finalizing the monitoring program.

A monitoring program for the wetland(s) will be developed as sufficient design details become available. Permanent photo points and transects will be established to allow for consistent evaluation of effects over time. Monitoring efforts will focus on reestablishment of vegetation communities (e.g., survival rates, invasive species, restoration of native species), hydrology and hydraulics (e.g., base flows, velocities, frequency of connection to flood plain), physical features (e.g., channel morphology, erosion, sediment composition), and habitat value for fish and wildlife.