

WASTEWATER TREATMENT MANAGEMENT PLAN

JERICOH DIAMOND MINE, NUNAVUT

EXECUTIVE SUMMARY

The Wastewater Treatment Management Plan (WTMP) is intended to provide operations personnel general guidelines for operating, maintaining, and monitoring the wastewater treatment plant (WWTP). The purpose of this document is to ensure that domestic wastewater is treated to meet the criteria specified in the water licence before it is discharged to the Processed Kimberlite Containment Area (PKCA) at the Jericho Diamond Mine (mine).

The wastewater treatment system was supplied by P.J. Hannah Equipment Sales Corp. (Hannah, acquired by Seprotech Systems Inc. in 2007). It was installed in 2005 by the mine's previous owners. The system is housed in an insulated metal clad building adjacent to the accommodations complex within the Processing Plant Area (Figure 1 in this plan). The system was designed to treat the domestic wastewater from a camp serving about 200 occupants, and is operated by site maintenance/operations personnel.

The WTMP includes:

- A description of the function of each component in the wastewater treatment system;
- General guidelines for operation;
- General requirements for maintenance and a troubleshooting guide;
- Strategies for safe operation and dealing with emergencies; and
- Methods of treatment performance monitoring.