

ATTACHMENT 5 - SUMMARY OF ENVIRONMENTAL REPORTS AND STUDIES

Hackett River Project - Environmental Reports and Studies

The following baseline studies have been collected for this project and available upon request:

- Department of Indian and Northern Affairs, Water Management Section, Bathurst Norsemynes (Hackett River), Potential Mine Water Quality Survey Network, Report Series, 1974 By: D. Sutherland, J. McLaren
- Northwest Territories Water Board, Department of Indian and Northern Development, Bathurst Norsemynes Hackett River, Potential Mine Water Quality Survey Network, Report Series, 1975 By D.J. Sutherland
- Geochemical Dispersion over Massive Sulphides within the Zone of Continuous Permafrost, Bathurst Norsemynes, District of Mackenzie, N.W.T. by J. K. Millar, The University of British Columbia, December, 1978.

The following baseline studies were conducted and prepared by Gartner Lee for Sabina Silver Resources:

- Baseline Water Quality Monitoring Program at Hackett River Project, December 6, 2004
- 2005 Baseline Water Quality Monitoring Program – Hackett River Project, October, 2005
- 2006 Baseline Preliminary Options of the Road Route Options from Hackett River Camp to the BIPAR Road, November, 2006.
- 2006 Baseline Water Quality Monitoring Program at Hackett River Project, November, 2006.

The following baseline studies were conducted and prepared by Rescan Environmental Services Inc. for Sabina Silver Corporation:

- 2007 Hydrology Baseline Report, Hackett River Project, January 2008
- 2007 Aquatic Baseline Report, Hackett River Project, April 2008
- 2007 Fish Habitat and Fish Community Baseline Report, Hackett River Project, June 2008
- 2007 Wildlife Baseline Report, Hackett River Project, March 2008
- 2007 Meteorology and Permafrost Baseline Report, Hackett River Project, March 2008
- Hackett River Project - Predicted Minesite-Drainage, Chemistry and Acid Rock Drainage - Phase 1, March 2008
- 2007 Archaeology Baseline Report, Hackett River Project, April 2008
- 2007 Soil Baseline Report, Hackett River Project, June 2008
- 2007 Ecosystem Mapping and Vegetation Baseline Report, Hackett River Project, September 2008
- 2008 Hydrology Baseline Report, Hackett River Project, October 2008
- 2008 Freshwater Water Quality Baseline Report, Hackett River Project, January 2009
- 2008 Wildlife Baseline Report, Hackett River Project, November 2008
- 2008 Meteorology and Permafrost Baseline Report, Hackett River Project, December 2008
- Preliminary Wind Resource Analysis for the Hackett River Project, August 2008
- Historical and Traditional Knowledge in the Hackett River Study Area, January 2009
- Metal Leaching/Acid Rock Drainage Characterization, January 2010
- Hackett River Project Archaeological Review, May 2010

- 2010 Fish and Fish Habitat Baseline Report, December 2010
- 2009 and 2010 Meteorology Data Report, May 2011
- 2010 Caribou and Muskox Baseline Report, May 2011

Several additional studies in support of baseline characterization were completed in 2012 and partial studies completed in 2013 by Rescan Environmental Services Inc. an ERM Company for Xstrata Zinc Canada, however final reports were not issued. The studies were completed for each of the following disciplines:

- Meteorology
- Surface Water Hydrology
- Hydrogeology
- Geochemistry
- Wetlands
- Terrestrial Ecosystems and Vegetation
- Aquatic Resources
- Fish and Fish Habitat
- Wildlife
- Archeology