

**Proceedings of the 5<sup>th</sup> Biennial  
Northern Latitudes Mining Reclamation Workshop**  
Edited by William (Bill) Price

**The Reclamation Tool Box**

1. Cultural Keystone Species in Oil Sands Mine Reclamation, Fort McKay, Alberta, Canada  
*by Ann Garibaldi and Justin Straker (Stantec)*
2. Climate Change: A Challenge to Mine Reclamation  
*by Igor Holubec (Holubec Consulting Inc.) and Heather Auld, Sharon Fernandez and Baoling Wang (Adaptation and Impacts Research Division, Environment Canada)*
3. The Closure and Reclamation of Mines within the Mackenzie Valley  
*by Ryan Fequet (Working Groups of the Mackenzie Valley Land and Water Boards, Gwichin, Sahtu, Wek'eezhii and Mackenzie Valley)*
4. Mining Pit Lakes: An Overview of their Characteristics and their Potential for Beneficial End Uses  
*by Chris Gammons (Dept. of Geological Engineering, Montana Tech), Pete Cott and Bruce Hanna (Dept. of Fisheries and Oceans)*
  - Creating Lakes from Open Pit Mines: Processes and Considerations, with Emphasis on Northern Environments  
*by Christopher H. Gammons, Les N. Harris, James M. Castro, Peter A. Cott and Bruce W. Hanna*
5. Geospatial Applications in the Alaska AML Program -- Practical Examples and Results from an Alaskan User's Perspective  
*by Roger Allely (Alaska AML Program)*

**Case Studies**

6. Treading Softly: Minimizing Impact on Tundra at Alaska's Pebble Project  
*by Loretta Ford (Pebble Limited Partnership)*
7. Planning for Closure and Reclamation of the BHP Billiton Diamonds Inc. Ekati Diamond Mine - Closure & Traditional Knowledge  
*by Helen Butler (BHP Billiton Diamonds Inc. EKATI Diamond Mine)*
8. Brewery Creek Mine – From Assessment and Permitting through Production to Post Closure: A Post Closure Analysis of a Northern Heap Leach Mine  
*by Paul Inglis (Access Consulting Group)*
9. Case Study on PHREEQC Geochemistry Modeling for two Indian and Northern Affairs Canada Abandoned Mine Sites  
*by William X. Liu, Sean Dillon, Scott Davidson and Herb Zier-Vogel (EBA Engineering Consultants Ltd.)*
10. Colomac Remediation Project: Major Civil Works  
*by Lowell Wade and Cam Scott (SRK Consulting Canada Inc.)*

## **The Reclamation Tool Box**

11. Components of Successful Drainage Treatment  
*by Bill Price (Natural Resources Canada)*
12. Soil Cover Design and Construction Practices in the North  
*by Maritz Rykaart and Daryl Hockley (SRK Canada Inc.)*
13. The Role of the Independent Environmental Monitoring Agency in Closure Planning at the Ekati Diamond Mine  
*by Bill Ross, Tony Pearse and Kevin O'Reilly (Independent Environmental Monitoring Agency for the Ekati Diamond Mine)*
14. Vegetation Research for Closure and Reclamation of the BHP Billiton Diamonds Inc. Ekati Diamond Mine  
*by Harvey Martens (Harvey Martens and Associates)*
15. Incorporation of Ecological Risk Assessments into Phase II Environmental Site Assessments of Abandoned Mines in the Northwest Territories  
*by Scott Davidson, J. Widemeyer, Herb Zier-Vogel and Sean Dillon (EBA Engineering Consultants Ltd.)*

## **Contaminated Sites Program of Indian and Northern Affairs Canada**

16. The Indian and Northern Affairs Canada Contaminated Sites Program Update  
*by Lou Spagnuolo (Indian and Northern Affairs Canada)*
17. Selection of Final Closure Option at the Faro Abandoned Mine Site  
*by Michael Nahir (Indian and Northern Affairs Canada), Stephen Mead (Yukon Government) and Daryl Hockley (SRK Consulting)*
18. Moving Forward on the Giant Mine Remediation Project  
*by Martin Gavin (Indian and Northern Affairs Canada)*
19. Lessons Learned for Abandoned Tundra Mine Remediation Project and Next Steps  
*by Julie Ward (Indian and Northern Affairs Canada)*
20. The Port Radium Abandoned Mine Remediation Project  
*by Julie Ward (Indian and Northern Affairs Canada)*
21. Wetland Enhancement Project at the Terra Mine Site  
*by Sabrina Sturman (Indian and Northern Affairs Canada)*
22. Nearing Completion - The Colomac Abandoned Mine Remediation Project  
*by Ron Breadmore (Indian and Northern Affairs Canada)*

- North1 Video



## **Posters**

23. An Evaluation of Factors Influencing Spontaneous Vegetation Succession in Northern Latitude Disturbances: Assessment of Natural Recolonization of Historic Decommissioned Borrow Pit and Road Bed Sections in Yukon  
*by Diane Lister (Altura Environmental Consulting)*