

INAP UPDATES

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21st BC/MEND ML/ARD Workshop Vancouver, BC

December 3-4, 2014



INAP



















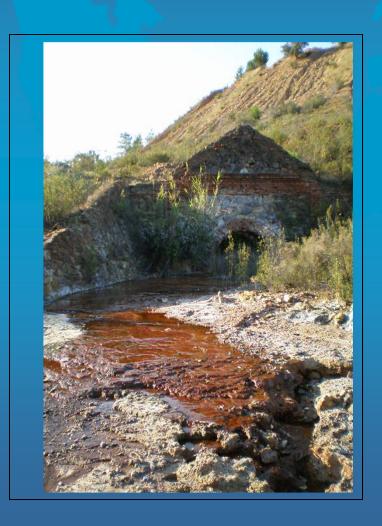
The Global Alliance







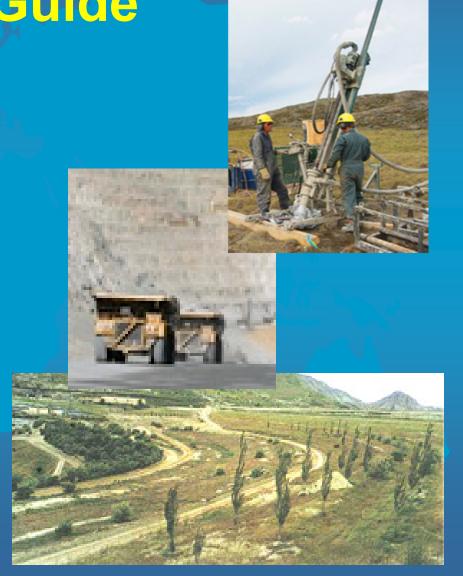
Global ARD Guide (www.GARDGuide.com)



"An international guide for facilitating world-wide best practice in prediction, control, and mitigation of acid rock drainage."

Gaining Value from the GARD Guide

- Prevent ARD rather than treat it
 - Minimize and characterize disturbed material
 - Plan and design for closure from the start
 - Integrate the GARD into operations
 - Update closure costs regularly
- Engage stakeholders in the planning process – shared responsibility



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GARD Guide Summary Appended to CAFTA Mining Review Guideline



Volume I

EIA Technical Review Guideline: Non-Metal and Metal Mining

Regional Document prepared under CAFTA DR Environmental Cooperation



Prepared by CAFTA DR and US Country EIA and Mining Experts with support from:

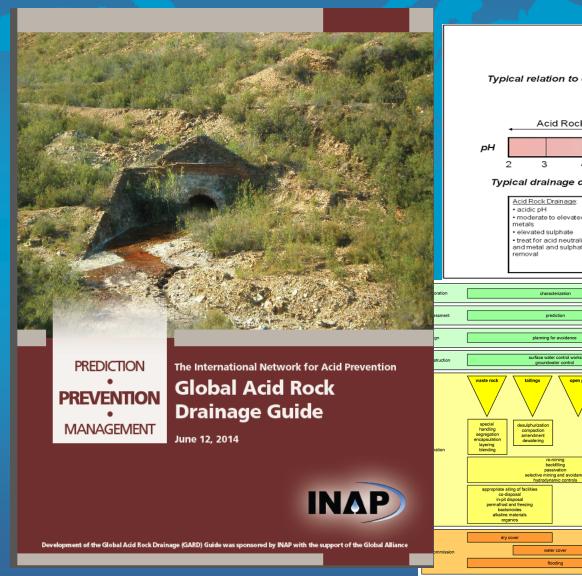


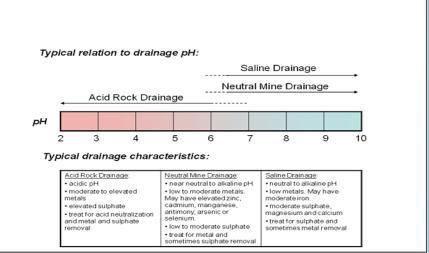
Presented at the US EPA CLU-IN webinar on mining resources

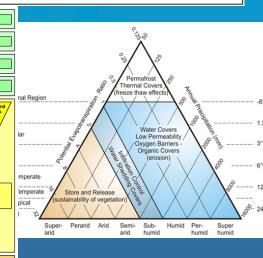
Referenced in ITRC mining waste treatment technology selection

Printable Version of GARD Guide INAP









Sulfate Treatment Workshop



120 delegates from 5 countries

1 1/2-day program

22 presentations

5 breakout sessions

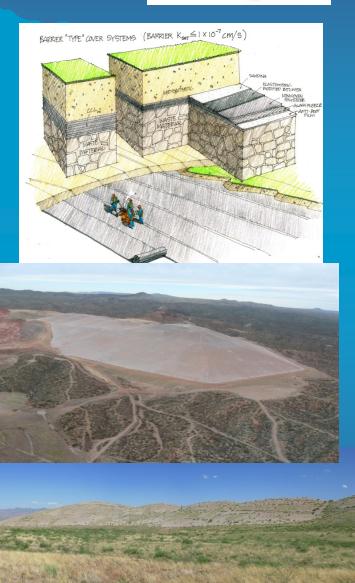
Tour of Kennecott RO plant



Soil Cover Guidance Document



Context for Cover Design & Performance Climate Hydro-geological Setting Materials Vegetation Design Methodology Closure Objectives Cover Systems Water Management Systems





10th ICARD - Santiago

- April 20-25, 2015
- Short Courses April 20-21
- Technical Meeting April 22-24
- Field Trip April 25

http://www.icard2015.com





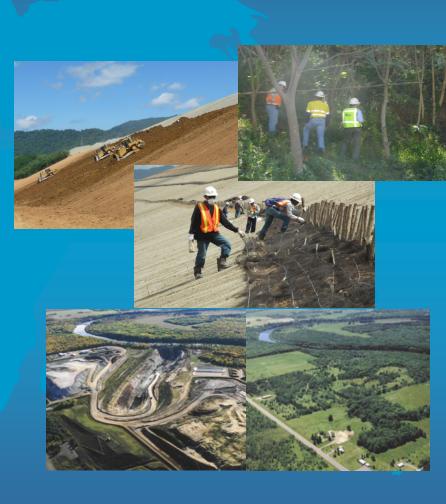








- Sponsored by INAP and the Global Alliance
- Presented at the 10th
 ICARD as a Poster
- Reclamation, Treatment,
 Mitigation, Prevention
- Strong Learning Tool
- Identify Lessons Learned
- Illustrate Best Practice



Conclusions





- ARD management is critical to the success and reputation of the mining industry
- Measurement and ongoing improvement of the ARD Management Plan are necessary throughout the life of mine
- Successful implementation of an ARD Management Plan relies on commitment from company management and the systematic use of ARD management tools including partnering with all stakeholders
- ARD Management is improving due to the efforts of all stakeholders including the environmental community