

GEOTECHNICAL ASPECTS OF TAILINGS DISPOSAL AND ACID MINE DRAINAGE



**THE VANCOUVER GEOTECHNICAL SOCIETY
VANCOUVER, B.C.
MAY 26, 1989**

The Canadian Geotechnical
Society



*La Société canadienne de
Géotechnique*

ORGANIZING COMMITTEE

Bryan Watts, Chairman
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Mike Davies
Mark Hawley
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HOTEL GEORGIA
VANCOUVER, B.C.

PROGRAM

MAY 26, 1989

0800 - 0830 - REGISTRATION

OPENING REMARKS - B.D. Watts, Symposium Chairman

0830 - 1215 MORNING SESSION - TECHNICAL PAPERS

"DEPOSITION METHODS FOR CONSTRUCTION OF HYDRAULIC FILL TAILINGS DAMS"
P.C. Lighthall, B.D. Watts and S. Rice, Klohn Leonoff Ltd.

"A CASE HISTORY OF ON-GOING CHANGES IN TAILINGS DAM DESIGN AFTER INITIAL
CONSTRUCTION"
M.M. Eivemark and K.E. Robinson, SRK-Robinson Inc.

1000 - 1015 COFFEE BREAK

"USE OF RECENT CONE PENETRATION TEST TECHNOLOGY IN EVALUATING GEOTECHNICAL
PROPERTIES OF MINE WASTE"
D.J. Woeller, ConTec Investigations Ltd., M.P. Davies, Klohn Leonoff Ltd.
and P.K. Robertson, University of Alberta

"OVERVIEW OF HYDRAULIC CONSTRUCTION UTILIZED AT SYNCRUDE CANADA LTD.
TAILINGS POND"
D. Ferguson, G. Handford and J. Sobkowicz, Syncrude Canada Ltd.

"GEOTECHNICAL ASPECTS OF WASTE DISPOSAL AT SUNCOR OIL SANDS MINE"
W.K. Chan and E.C. McRoberts, Hardy BBT Ltd.

1215 - 1330 LUNCHEON

1330 - 1645 AFTERNOON SESSION - TECHNICAL PAPERS

"GEOTECHNICAL CONSIDERATIONS IN THE CONTROL OF ACID MINE DRAINAGE"
J.P. Barton-Bridges and A. MacG. Robertson, Steffen, Robertson & Kirsten Inc.

"A CASE HISTORY OF AN ACID GENERATION ABATEMENT PROGRAM FOR AN ABANDONED
COPPER MINE"
P.M. Healey and A. MacG. Robertson, Steffen, Robertson & Kirsten Inc.

1550 - 1505 COFFEE BREAK

"TAILINGS BEACH SLOPES"
B.H. Conlin, Golder Associates

"DESIGN AND OPERATION OF THE MYRA FALLS TAILINGS DISPOSAL FACILITY"
J.P. Haile and T.F. Kerr, Knight and Piesold Ltd.

CLOSING REMARKS

"DISCUSSION OF ICOLD TAILINGS GUIDELINES"
E.J. Klohn, Klohn Leonoff Consultants Ltd.

INTRODUCTORY REMARKS

This symposium brings together the considerable expertise in the consulting engineering community in British Columbia and Alberta on the geotechnical aspects of mine tailings disposal and acid mine drainage. The Vancouver Geotechnical Society has arranged this symposium as a forum for discussion of these two topics among geotechnical engineers, mining engineers and environmental specialists.

The Organizing Committee thanks the authors who donated their time to prepare the presentations and papers. It is hoped that these preprints will be a useful addition to the libraries of those interested in environmentally safe disposal of mine wastes.

Bryan D. Watts
Organizing Committee Chairman