



Q

On Tuesday 1 July 2025, 04:00-21:00 GMT, we'll be making some site updates on Taylor & Francis Online. You'll still be able to search, browse and read our articles, where access rights already apply. Registration, purchasing, activation of tokens, eprints and other features of Your Account will be unavailable during this scheduled work.

Home ► All Journals ► Engineering & Technology ► Petroleum Science and Technology ► List of Issues ► Volume 20, Issue 9-10 ► MANAGEMENT OF OIL SANDS TAILINGS

Petroleum Science and Technology >

Volume 20, 2002 - <u>Issue 9-10</u>

3,30314860ViewsCrossRef citations to dateAltmetric

Original Articles

MANAGEMENT OF OIL SANDS TAILINGS

Richard J. Chalaturnyk, J. Don Scott & Baki Özüm S Pages 1025-1046 | Received 17 Oct 2001, Accepted 02 Dec 2001, Published online: 14 Feb 2007

General Cite this article Attps://doi.org/10.1081/LFT-120003695

Sample our Engineering & Technology Journals >> Sign in here to start your access to the latest two volumes for 14 days

🖹 Full A

🔒 Repri

ABSTE

In Albert surface (catal) desig tailings, byprodu water re performo tailings. resulting consolid

. .

We Care About Your Privacy

We and our 909 partners store and access personal data, like browsing data or unique identifiers, on your device. Selecting "I Accept" enables tracking technologies to support the purposes shown under "we and our partners process data to provide," whereas selecting "Reject All" or withdrawing your consent will disable them. If trackers are disabled, some content and ads you see may not be as relevant to you. You can resurface this menu to change your choices or withdraw consent at any time by clicking the ["privacy preferences"] link on the bottom of the webpage [or the floating icon on the bottom-left of the webpage, if applicable]. Your choices will have effect within our Website. For more details, refer to our Privacy Policy. <u>Here</u>





overall plant operations. Apex Engineering Inc. (AEI) has been developing a process for the same purpose. In this process oil sands tailings are treated with $Ca(OH)_2$ lime and CO_2 and thickened using a suitable thickener. The combination of chemical treatment and the use of a thickener results in the release of process water in short retention times without accumulation of any ions in the recovered water. This makes it possible to recycle the recovered water, probably after a chemical treatment, as warm as possible, which improves the thermal efficiency of the extraction process. The AEI Process can be applied in many different fashions for the management of different fractions of the tailings effluent, depending on the overall plant operating priorities.

ACKNOWLEDGMENTS

The authors greatly appreciate the financial support provided by IRAP, NRC Canada (Contract Number: 28565U), Syncrude Canada Ltd.'s courtesy in providing tailings samples and the technical advice provided by Bill Shaw, Ted Kizior, Michael Rogers and Wayne McKee of Syncrude Canada Ltd. Gilbert Wong and Ken Leung of the Geotechnical Group of the University of Alberta diligently and carefully performed the experimental program.



Information for	Open access
Authors	Overview
R&D professionals	Open journals
Editors	Open Select
Librarians	Dove Medical Press
Societies	F1000Research
Opportunities	Help and information
Reprints and e-prints	Help and contact
Advertising solutions	Newsroom
Accelerated publication	All journals
Corporate access solutions	Books

Keep up to date

Register to receive personalised research and resources by email

🔛 Sign me u

