

Stability of arsenic species in exposed and water-covered tailings at the Ketza River Mine site, Yukon

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Ketza River Mine

- ❑ former gold mine operated from 1988 to 1990
- ❑ 189,605 t of sulfide ore grading 11.3 g/t Au
- ❑ 16,400 t of oxide ore grading 9.7 g/t Au
- ❑ 320 t/day mill employing conventional CIP cyanidation leach
- ❑ slurry treated with INCO SO₂/air to destruct cyanide prior to disposal
- ❑ produced over 2.8 tons of gold

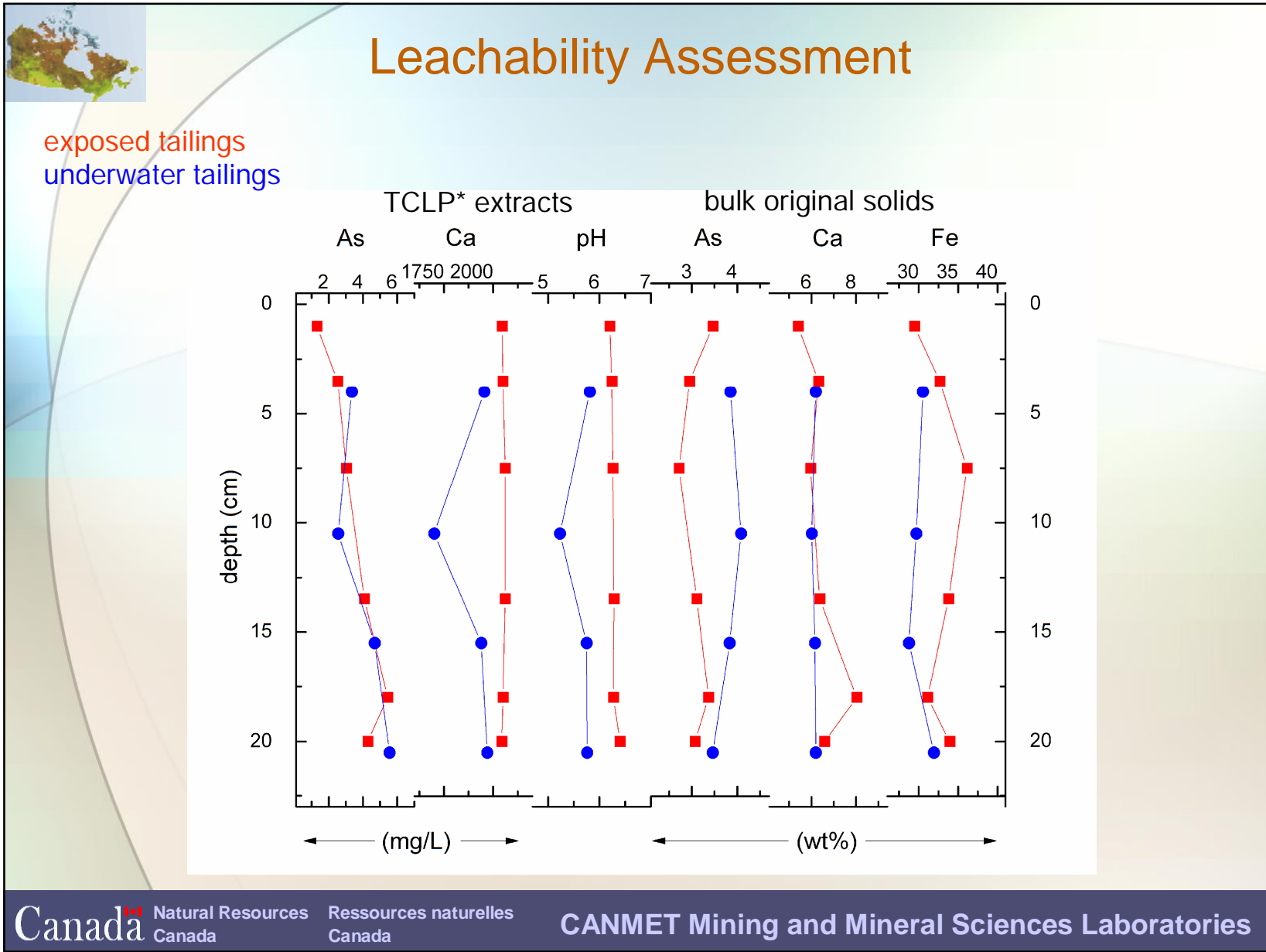
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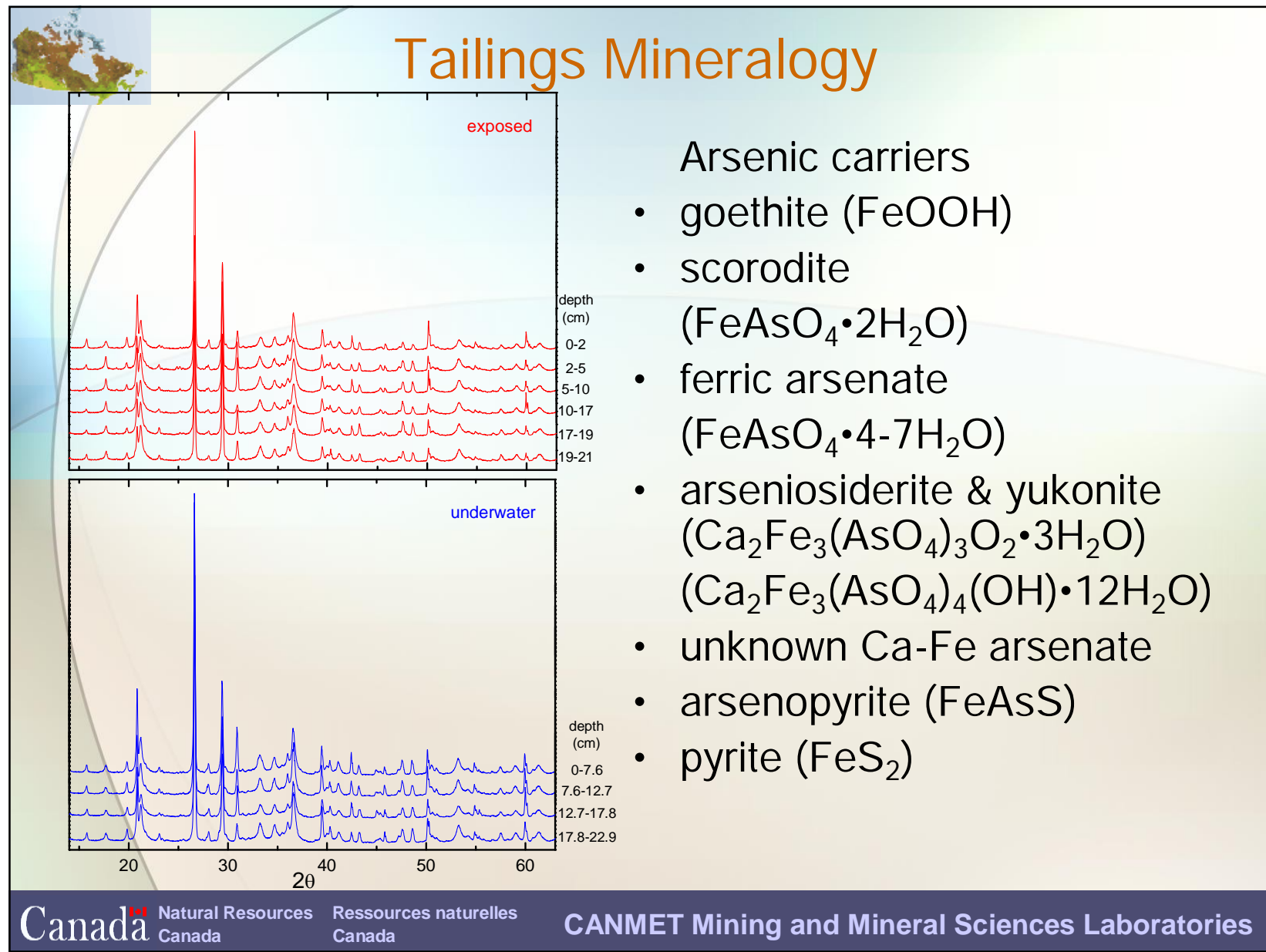


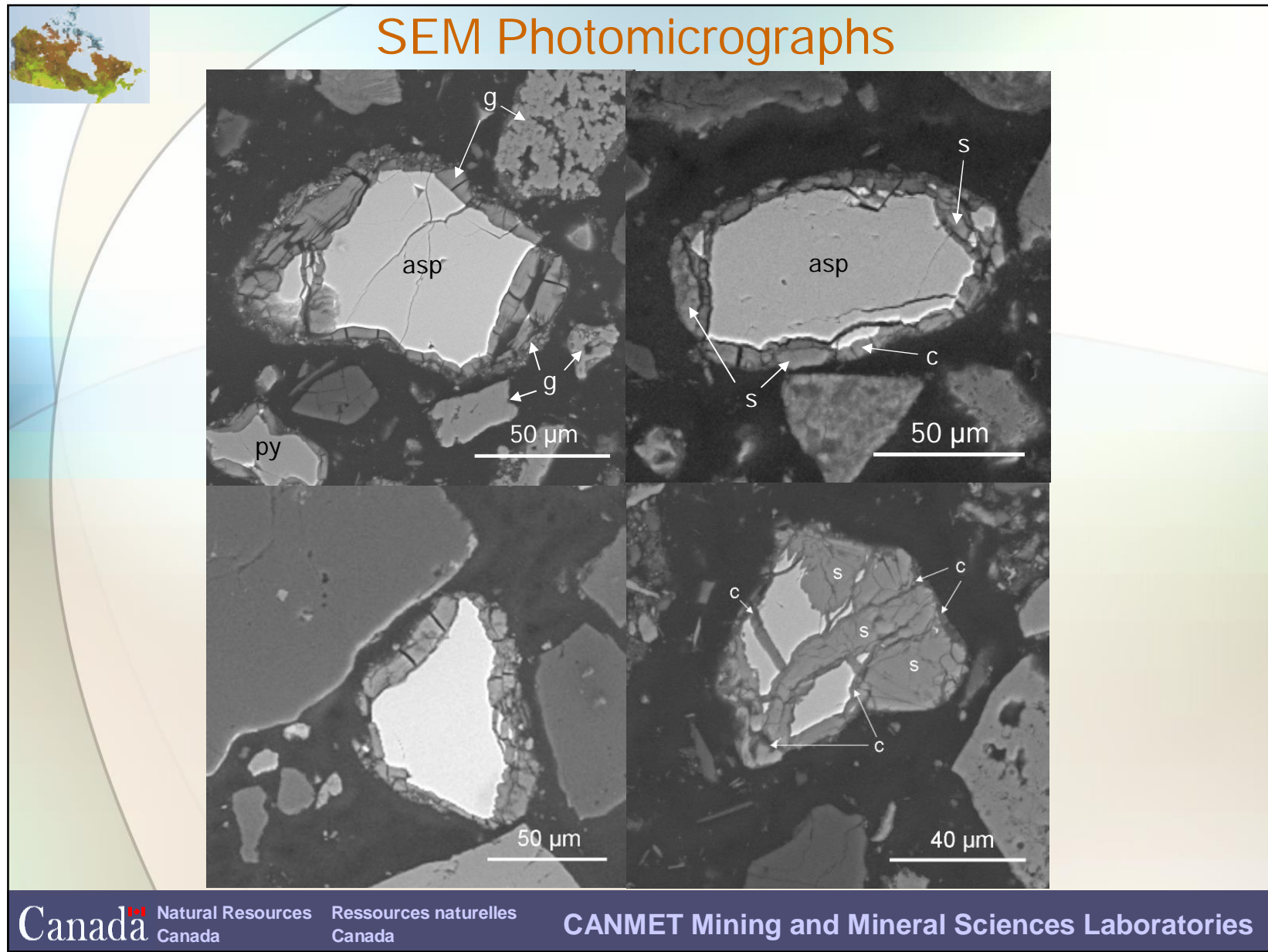
Mine tailings

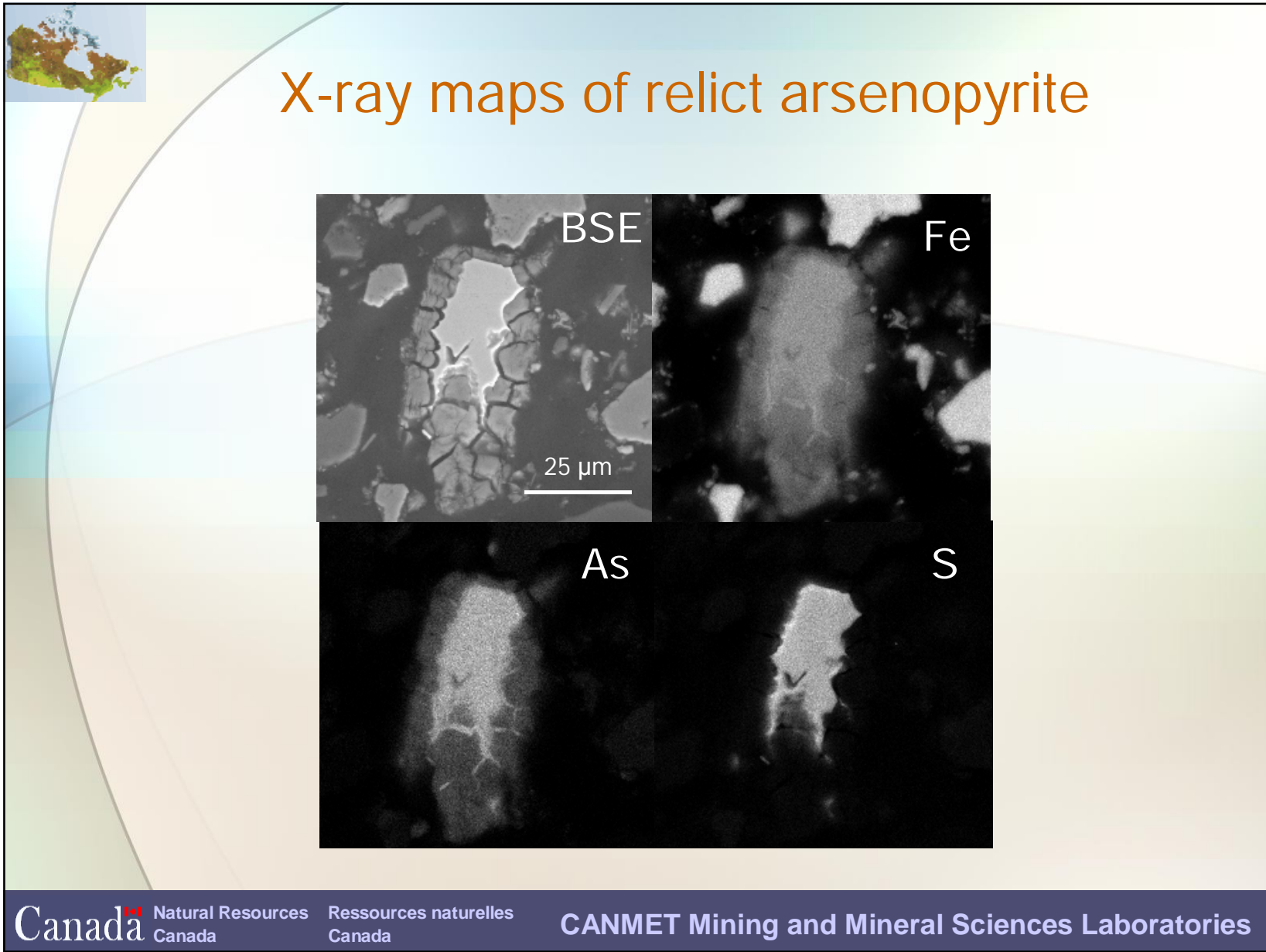
- ❑ 310,000 t of tailings with ~ 5 -7 % As
- ❑ up to 6.6 mg/L As in pond water
- ❑ concerns over the As mobility from the tailings impoundment
- ❑ 1-30 mg/L As releases in column experiments (Soprovich 2000; Paktunc et al. 2003)
- ❑ 1-11 mg/L As in bench scale cyanidation tests (Paktunc et al. 2004)

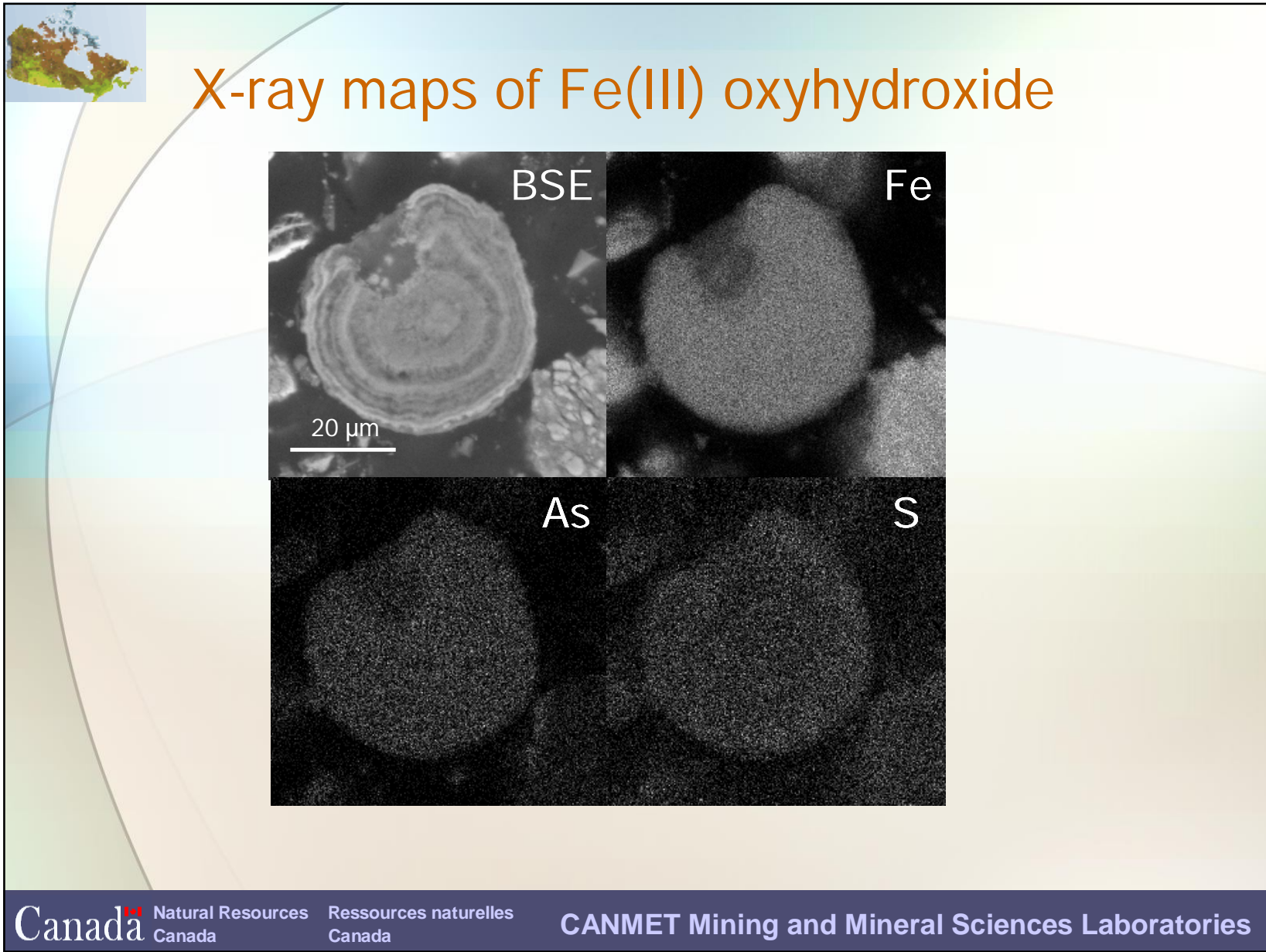


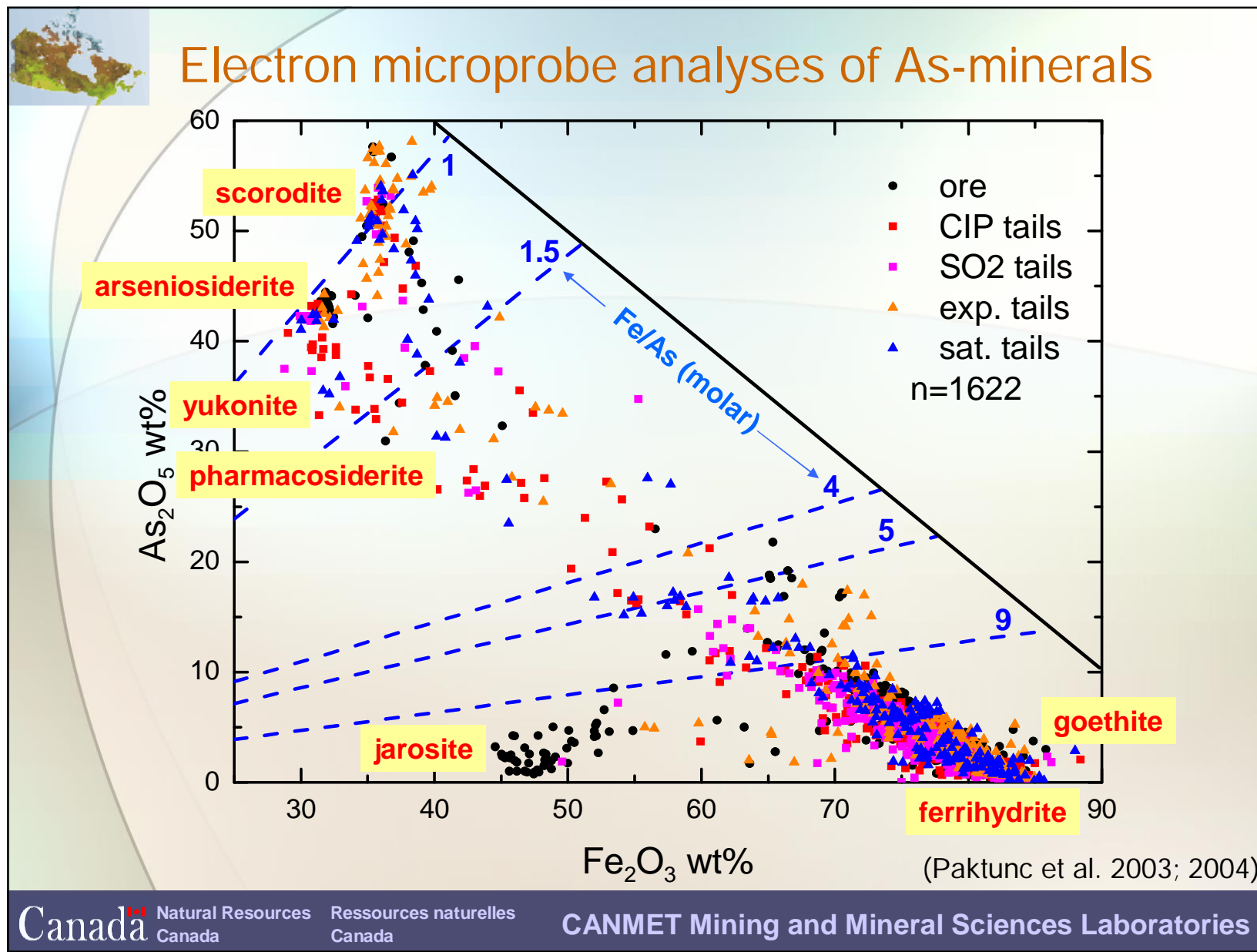


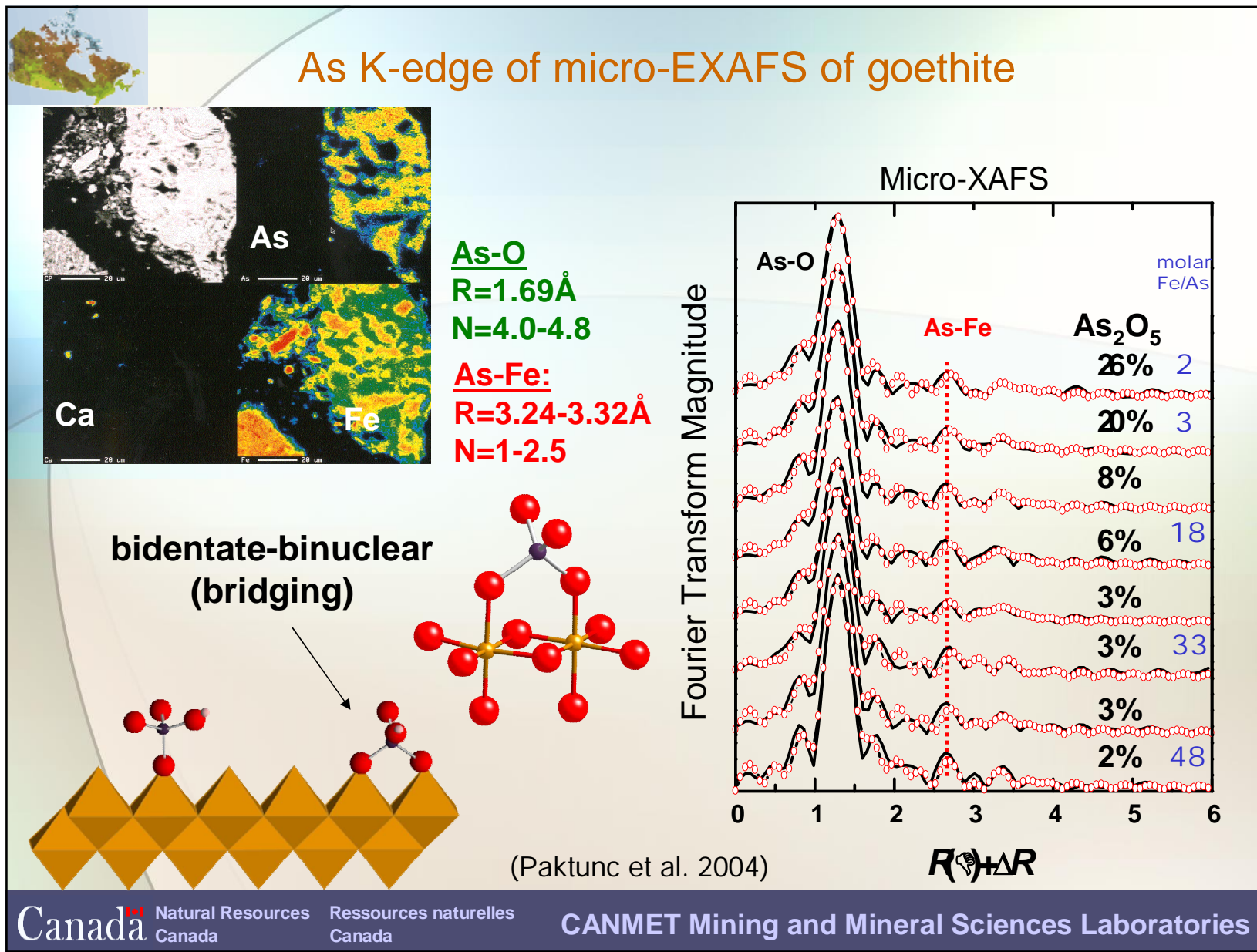


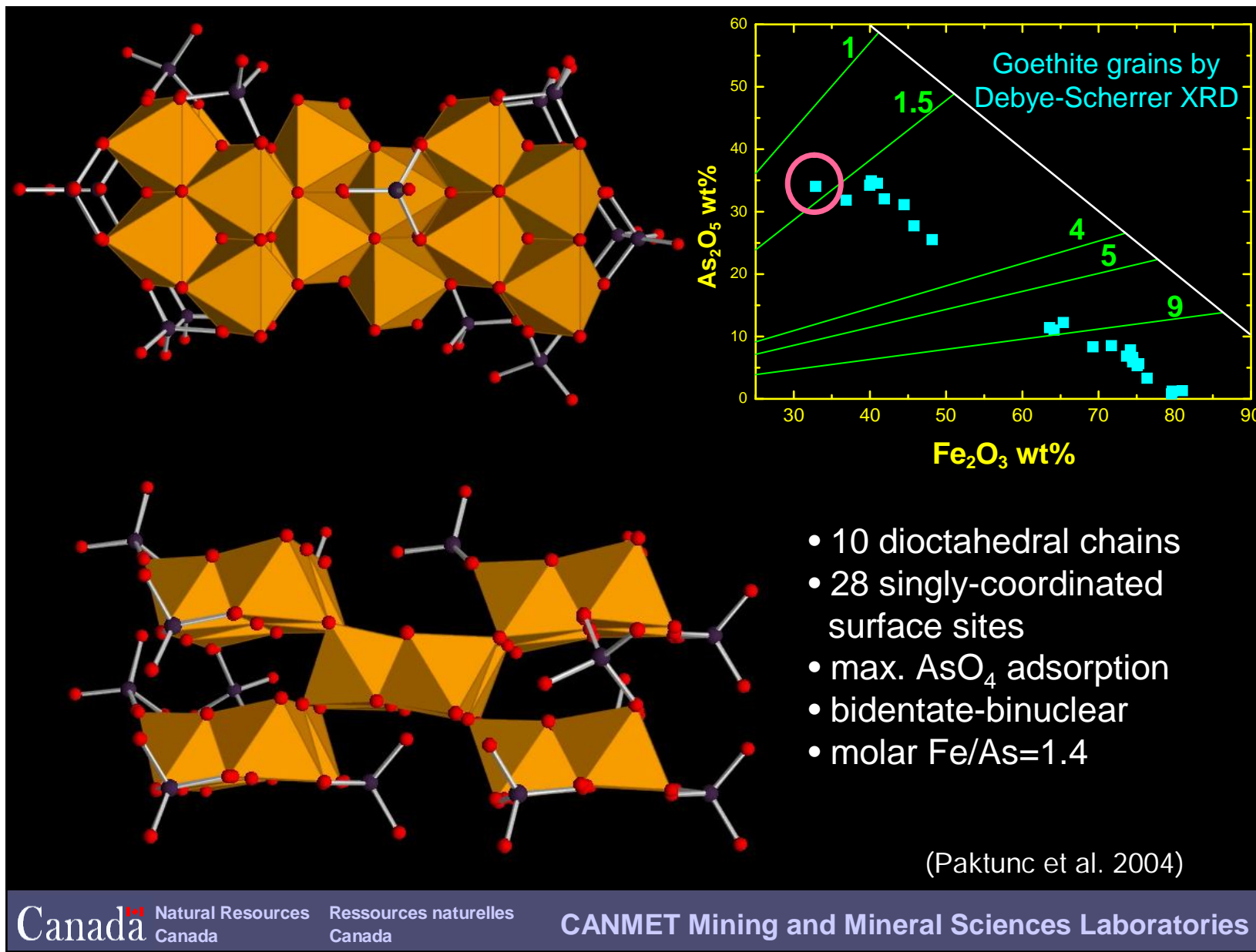


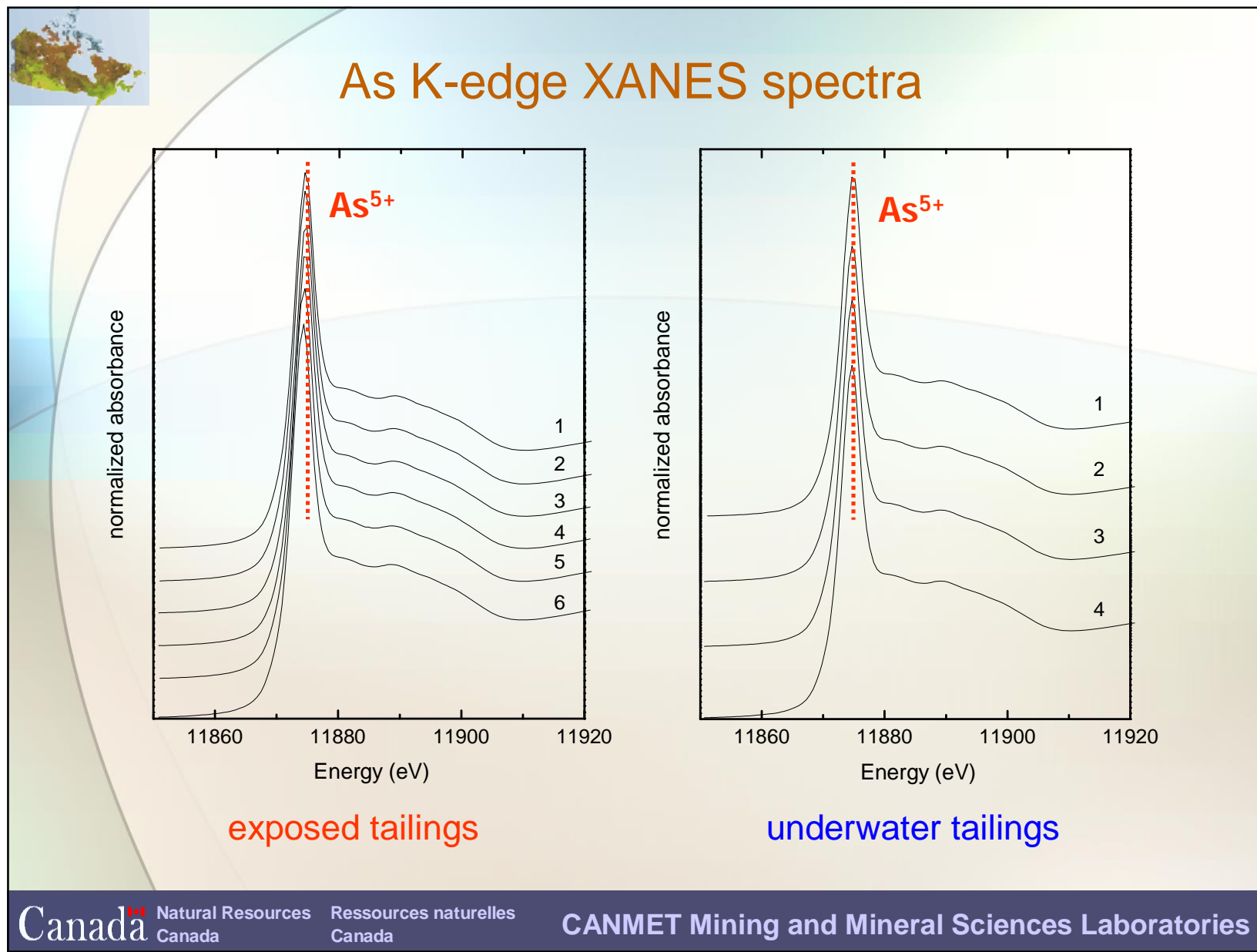


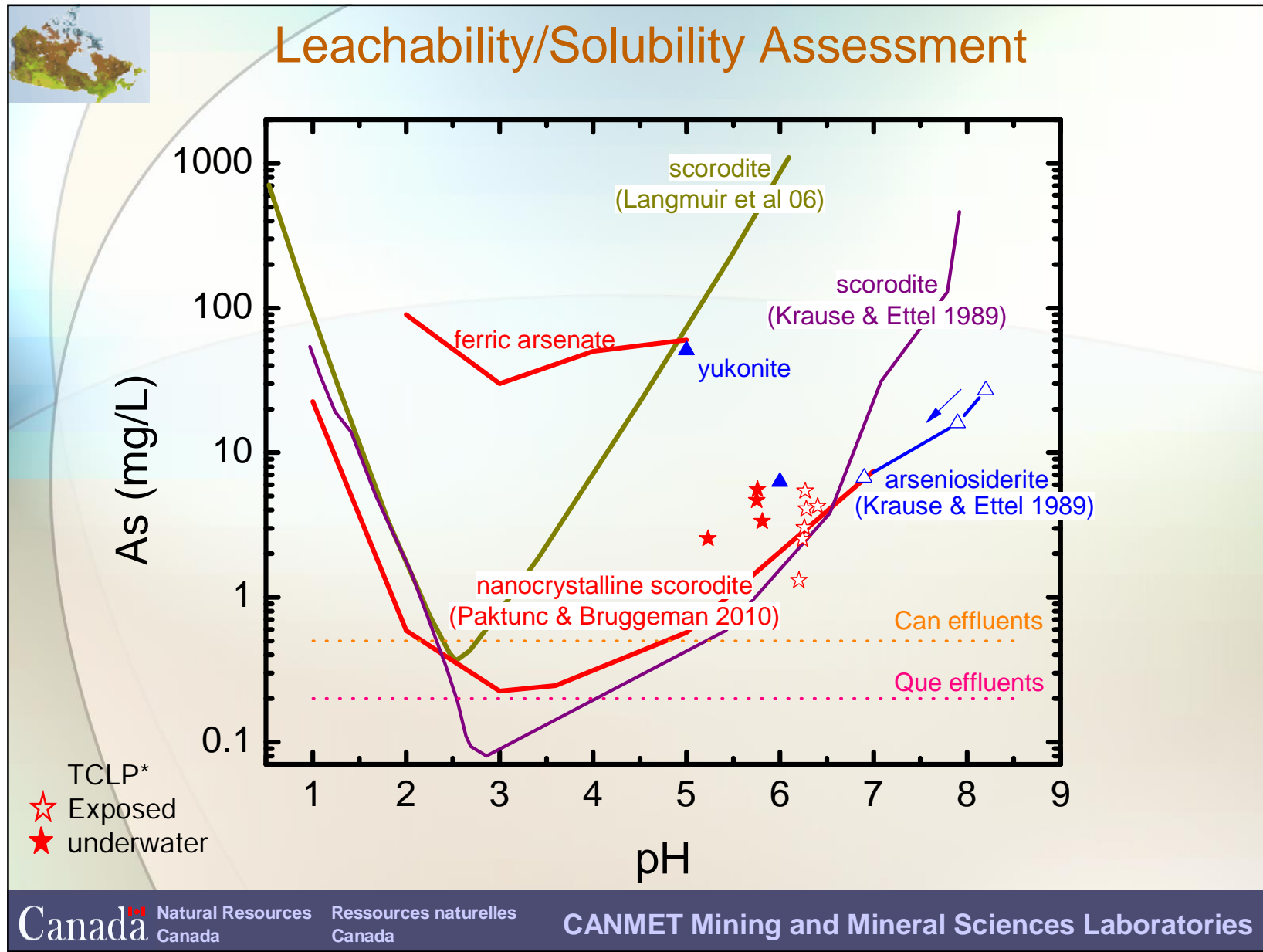














Acknowledgements



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