

## List of Reclamation Research Technical Advisory Committee (RRTAC) Reports

December 5, 2015

As part of its mandate to enhance access to oil sands information the Oil Sands Research and Information Network (OSRIN) digitized the oil-sands relevant Reclamation Research Technical Advisory Committee (RRTAC) series of research reports.

Alberta Environment and Sustainable Resource Development provided permission to digitize these resources and make them available.

RRTAC 79-2: Proceedings: Workshop On Native Shrubs in Reclamation. P.F. Ziemkiewicz, C.A. Dermott and H.P. Sims (Editors). 104 pp. <http://hdl.handle.net/10402/era.22580>

RRTAC 80-2: Reclamation Research Technical Advisory Committee, 1980. Alberta's Reclamation Research Program – 1979. 22 pp. <http://hdl.handle.net/10402/era.30025>

RRTAC 80-4: Proceedings: Workshop on Reconstruction of Forest Soils in Reclamation. P.F. Ziemkiewicz, S.K. Takyi and H.F. Regier (Editors). 160 pp. <http://hdl.handle.net/10402/era.22590>

RRTAC 83-1: Soil Reconstruction Design for Reclamation of Oil Sand Tailings. Monenco Consultants Ltd. 185 pp. <http://hdl.handle.net/10402/era.22591>

RRTAC 83-5: Woody Plant Establishment and Management Program for Oil Sands Mine Reclamation. Techman Engineering Ltd. 124 pp. <http://hdl.handle.net/10402/era.22592>

RRTAC 84-2: Propagation Study: Use of Trees and Shrubs for Oil Sand Reclamation. Techman Engineering Ltd. 58 pp. <http://hdl.handle.net/10402/era.22593>

RRTAC 84-4: Soil Microbiology in Land Reclamation. D. Parkinson (Ed.).  
Volume I – Soil Microbial Development. <http://hdl.handle.net/10402/era.22594>  
Volume II – Mycorrhizae. <http://hdl.handle.net/10402/era.24711>

RRTAC 86-2: Characterization and Variability of Soil Reconstructed after Surface Mining in Central Alberta. T.M. Macyk. 146 pp. <http://hdl.handle.net/10402/era.22595>

RRTAC 86-9: Wildlife Habitat Requirements and Reclamation Techniques for the Mountains and Foothills of Alberta. J.E. Green, R.E. Salter and D.G. Walker. 285 pp. <http://hdl.handle.net/10402/era.22596>

RRTAC 87-5: Beak Associates Consulting Ltd., 1987. Review of the Scientific Basis of Water Quality Criteria for the East Slope Foothills of Alberta. 46 pp.

<http://hdl.handle.net/10402/era.30361>

RRTAC 87-6: Assessing Design Flows and Sediment Discharge on the Eastern Slopes. Hydrocon Engineering (Continental) Ltd. and Monenco Consultants Ltd. 97 pp.

<http://hdl.handle.net/10402/era.22597>

RRTAC 87-8: Waste Dump Design for Erosion Control. R.G. Chopiuk and S.E. Thornton. 45 pp. <http://hdl.handle.net/10402/era.22598>

RRTAC 88-1: A Proposed Evaluation System for Wildlife Habitat Reclamation in the Mountains and Foothills Biomes of Alberta: Proposed Methodology and Assessment Handbook.

T.R. Eccles, R.E. Salter and J.E. Green. 101 pp. plus appendix.

<http://hdl.handle.net/10402/era.22623>

RRTAC 88-3: Revegetation of Oil Sands Tailings: Growth Improvement of Silver-berry and Buffalo-berry by Inoculation with Mycorrhizal Fungi and N<sub>2</sub>-Fixing Bacteria. S. Visser and R.M. Danielson. 98 pp. <http://hdl.handle.net/10402/era.22599>

RRTAC 88-5: Ectomycorrhizae of Jack Pine and Green Alder: Assessment of the Need for Inoculation, Development of Inoculation Techniques and Outplanting Trials on Oil Sand Tailings. R.M. Danielson and S. Visser. 177 pp. <http://hdl.handle.net/10402/era.22602>

RRTAC 88-7: Baseline Growth Performance Levels and Assessment Procedure for Commercial Tree Species in Alberta's Mountains and Foothills. W.R. Dempster and Associates Ltd. 66 pp.

<http://hdl.handle.net/10402/era.22603>

RRTAC 88-12: A Review of the International Literature on Mine Spoil Subsidence. J.D. Scott, G. Zinter, D.R. Pauls and M.B. Dussault. 36 pp. <http://hdl.handle.net/10402/era.22604>

RRTAC 89-2: Proceedings of the Conference: Reclamation, A Global Perspective.

D.G. Walker, C.B. Powter and M.W. Pole (Compilers). 2 Vols., 854 pp.

Two papers extracted

Dai, T.S. and M.Y.P. Fung. Current Reclamation Approach at the Syncrude Oil Sands Plant. <http://hdl.handle.net/10402/era.22641>

Johnson, R.L., P. Bork and P. Layte. The Effect of Freezing and Thawing on the Dewatering of Oil Sands Sludges. <http://hdl.handle.net/10402/era.22642>

RRTAC 89-4: Manual of Plant Species Suitability for Reclamation in Alberta: 2nd Edition. Hardy BBT Limited. 436 pp. <http://hdl.handle.net/10402/era.22605>

RRTAC 90-3: Native Plant Invasion into Reclaimed Oil Sands Mine Sites. Hardy BBT Limited. 68 pp. <http://hdl.handle.net/10402/era.22606>

- RRTAC 90-4: Physical and Hydrological Characteristics of Ponds in Reclaimed Upland Landscape Settings and their Impact on Agricultural Capability. S.R. Moran, T.M. Macyk, M.R. Trudell and M.E. Pigot. 76 pp. <http://hdl.handle.net/10402/era.22607>
- RRTAC 90-5: Review of the Effects of Storage on Topsoil Quality. Thurber Consultants Ltd., Land Resources Network Ltd. and Norwest Soil Research Ltd. 116 pp. <http://hdl.handle.net/10402/era.22608>
- RRTAC 90-8: Plains Hydrology and Reclamation Project: Summary Report. S.R. Moran, M.R. Trudell, T.M. Macyk and D.B. Cheel. 105 pp. <http://hdl.handle.net/10402/era.22609>
- RRTAC 90-10: Potential Contamination of Shallow Aquifers by Surface Mining of Coal. M.R. Trudell, S.R. Moran and T.M. Macyk. 75 pp. <http://hdl.handle.net/10402/era.22610>
- RRTAC 91-3: A User Guide to Pit and Quarry Reclamation in Alberta. J.E. Green, T.D. Van Egmond, C. Wylie, I. Jones, L. Knapik and L.R. Paterson. 151 pp. <http://hdl.handle.net/10402/era.22792>
- RRTAC 91-4: Soil Physical Properties in Reclamation. M.A. Naeth, D.J. White, D.S. Chanasyk, T.M. Macyk; C.B. Powter and D.J. Thacker. 204 pp. <http://hdl.handle.net/10402/era.22611>
- RRTAC 92-4: Oil Sands Soil Reconstruction Project Five Year Summary. HBT AGRA Limited. 109 pp. <http://hdl.handle.net/10402/era.22612>
- RRTAC 93-3: Catalogue of Technologies for Reducing the Environmental Impact of Fine Tailings from Oil Sand Processing. B.J. Fuhr, D.E. Rose and D. Taplin. 63 pp. <http://hdl.handle.net/10402/era.22613>
- RRTAC 93-4: Organic Materials as Soil Amendments in Reclamation: A Review of the Literature. Land Resources Network Ltd. 228 pp. <http://hdl.handle.net/10402/era.22614>
- RRTAC 93-6: Mapping and Characterization of Cutover Peatlands for Reclamation Planning. L.W. Turchenek, W.S. Tedder and R. Krzanowski. 100 pp. <http://hdl.handle.net/10402/era.22615>
- RRTAC 93-7: Soil Series Information for Reclamation Planning in Alberta  
Volume 1. Pedocan Land Evaluation Ltd. 43 pp. plus appendix. <http://hdl.handle.net/10402/era.25517>  
Volume 2. Pedocan Land Evaluation Ltd. 43 pp. plus appendix. <http://hdl.handle.net/10402/era.25518>
- RRTAC 93-8: Oil Sands Sludge Dewatering by Freeze-Thaw and Evapotranspiration. R.L. Johnson, P. Bork, W.H. James and L. Koverny. 247 pp. <http://hdl.handle.net/10402/era.22675>

RRTAC 93-9: Native Legumes for Reclamation in Alberta. A. Smreciu. 94 pp.  
<http://hdl.handle.net/10402/era.22616>

RRTAC 93-11: Salt Movement in Disturbed Soils. N.M. Finlayson. 61 pp.  
<http://hdl.handle.net/10402/era.22617>

RRTAC Future Research Needs Project – Summary. J.A. Smith. 43 pp.  
<http://hdl.handle.net/10402/era.22622>

RRTAC OF-2: List of Reclamation Research Technical Advisory Committee Reports. 18 pp.  
<http://hdl.handle.net/10402/era.22620>

RRTAC OF-4: Chemical Characterization of Various Oil Sands Substrates. C.B. Powter  
(Compiler). 64 pp. <http://hdl.handle.net/10402/era.22621>

RRTAC OF-6: Oil Sands Tailings Capping Study. HBT AGRA Limited. 35 pp.  
<http://hdl.handle.net/10402/era.22618>

RRTAC OF-7: Oil Sands Tailings Preliminary Ecological Risk Assessment. Golder Associates  
Ltd. 74 pp. <http://hdl.handle.net/10402/era.22589>

RRTAC OF-10: A Summary of Land Resource and Groundwater Resource Issues Related to  
Plains Coal Mine Reclamation in Alberta. D. Cheel, S.R. Moran, M. Trudell, D. Thacker and  
T. Macyk. 99 pp. <http://hdl.handle.net/10402/era.22619>