

March 24, 2011

MEMORANDUM TO: James Rubenstone, Branch Chief
Repository Site Branch

FROM: John Bradbury **/RA/**

SUBJECT: SCIENTIFIC NOTEBOOK – SECULAR EQUILIBRIUM ASSUMPTION
ANALYSIS

Attached is a Scientific Notebook describing analyses performed in 2010 to determine the effect of the Department of Energy assumption of secular equilibrium on radionuclide flux in the saturated zone. The analyses also consider effects of biasing of sorption coefficient distributions of certain radionuclides and spatial heterogeneity of sorption parameters.