In replying, please quote these numbers INS 50/105/-HSJ

All correspondence to be addressed to Director

NEW ZEALAND

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH THE INSTITUTE OF NUCLEAR SCIENCES

PRIVATE BAG, LOWER HUTT

8 August, 1966

Dr G. Reber, C.S.I.R.O., Tasmanian Regional Laboratory, "Stowell", Stowell Avenue, HOBART, AUSTRALIA.

Dear Dr Reber,

Further to your letter of 25 July:

The results quoted in my letter of 18 July can be compared with those quoted in the letter of 26 July, 1965 as follows:-

Sample	Counting rate in c.p.m.	Beta-Activity in % UzOg/ equivalent	Beta-Activity in µµc/ gram	Beta-Activity in terms of "Grace- field Soil"
R1587/2 R1520/4 "Gracefiel Soil" R1814/1	6.92 10.95	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1.0 2.4 9.1 14.4	0.11 0.26 1.00 1.58
R1814/2 R1814/3 R1814/4	3.99 1.00 4.26	2.14 × 10 ⁻⁴ 9.10 × 10 ⁻⁴	5.2 1.3 5.6	0.57 0.14 0.62

The graywacke of Gracefield soil has a rather high radioactive content. Only the sample from the tunnel used by the University of Tasmania exceeds it, in terms of the samples reported here.

Yours faithfully,

(H. S. Jansen) for Director