

Supplemental Guidance
Correction to Equation for the Derivation of Benchmarks for Groundwater

The equation on page 4 – 18 of VRRRA Guidance Manual (version 2.1) must be corrected as shown below – Tr should be in the numerator NOT the denominator as originally shown in the guidance.

Figure 4-5: Equations for the Derivation of Benchmarks for Groundwater

$$GwSTL = (Tr/Dr) \times ATV$$

Where:

GwSTL = Mean groundwater screening threshold limit (mg/L)

Dr = Groundwater discharge rate (L/day)

Tr¹ = Surface water turnover rate (L/day)

ATV² = Aquatic Toxicity Value (mg/L)

¹ If the surface water body is a creek or river, then substitute the mean flow volume (l/day) for the turnover rate.

² If available, use the appropriate ecological ambient water quality criteria. Otherwise, use the lowest TRV for all aquatic receptors of concern associated with the site.