

## Appendix C. Risk Quotient (RQ) Method and Levels of Concern (LOCs)

Risk Presumption	RQ	LOC
<b>Birds and Wild Mammals</b>		
Acute Risk	Dietary based: $EEC^a$ (ppm <sup>b</sup> ) / $LC_{50}$ (ppm) Dose based: $EEC$ (mg/kg-bw/d) / $LD_{50}$ (mg/kg-bw/d <sup>c</sup> )	0.5
Acute Restricted Use	Dietary based: $EEC$ (ppm) / $LC_{50}$ (ppm) Dose based: $EEC$ (mg/kg-bw/d) / $LD_{50}$ (mg/kg-bw/d)	0.2
Acute Listed Species	Dietary based: $EEC$ (ppm) / $LC_{50}$ (ppm) Dose based: $EEC$ (mg/kg-bw/d) / $LD_{50}$ (mg/kg-bw/d)	0.1
Chronic Risk	Dietary based: $EEC$ (ppm) / $NOAEC$ (ppm) Dose based: $EEC$ (mg/kg-bw/d) / $NOAEL$ (mg/kg-bw/d)	1.0
<b>Aquatic Animals</b>		
Acute Risk	$EEC$ (ppm) / ( $LC_{50}$ (ppm) or $EC_{50}$ (ppm))	0.5
Acute Restricted Use	$EEC$ (ppm) / ( $LC_{50}$ (ppm) or $EC_{50}$ (ppm))	0.1
Acute Listed Species	$EEC$ (ppm) / ( $LC_{50}$ (ppm) or $EC_{50}$ (ppm))	0.05
Chronic Risk	$EEC$ (ppm) / $NOAEC$ (ppm)	1.0
<b>Terrestrial Plants and Plants Inhabiting Semi-Aquatic Areas</b>		
Acute Risk	$EEC$ (lbs ai/A) / $EC_{25}$ (lbs ai/A)	1.0
Acute Listed Use	$EEC$ (lbs ai/A) / ( $EC_{05}$ or $NOAEC$ (lbs ai/A))	1.0
<b>Aquatic Plants</b>		
Risk	$EEC$ (ppm) / $EC_{50}$ (ppm)	1.0
Listed Species	$EEC$ (ppm) / ( $EC_{05}$ or $NOAEC$ (ppm))	1.0

<sup>a</sup> EEC = estimated environmental concentration

<sup>b</sup> ppm = parts per million

<sup>c</sup> mg/kg-bw/d = milligrams per kilogram of body weight per day