



## Appendix I

CCME Guidelines for Compost Quality 2005<sup>1</sup> &  
CFIA Fertilizer Act & Regulations<sup>2</sup>



Alberta, Saskatchewan, Manitoba, New Brunswick, Newfoundland and Labrador,  
Nova Scotia, Prince Edward Island & Territories

### A. Maximum Concentrations for Trace Metals in Compost

Trace Elements	Test Results (ug/g)	Category A	Category B
		Maximum Concentration within Product (mg/kg dry weight)	
Arsenic (As)		13	75
Cadmium (Cd)		3	20
Chromium (Cr)		210	**
Cobalt (Co)		34	150
Copper (Cu)		400	**
Lead (Pb)		150	500
Mercury (Hg)		0.8	5
Molybdenum (Mo)		5	20
Nickel (Ni)		62	180
Selenium (Se)		2	14
Zinc (Zn)		700	1850

\*\* Upper limits are not established in the Trade Memorandum.

### B. Foreign Matter in Compost

Test Results		Category A	Category B
<b>Foreign Matter</b>		Contains no more than 1 piece of foreign matter >25mm/500ml	Contains no more than 2 pieces of foreign matter > 25mm/500mL
Pieces >25mm/500mL			
<b>Sharp Foreign Matter</b>		No sharp foreign matter >3mm per 500ml	No more than 3 pieces of sharp matter <12.5mm/500mL Note: This compost shall not be used in pastures, parks, or residential
Pieces > 3mm/500mL			
Pieces > 12.5mm/500mL			

### C. Maturity/Stability

Method	Test Results	Required Limits
<b>CO<sub>2</sub> Respiration Rate</b> (mg CO <sub>2</sub> /g O.M./day)		≤ 4 mg of carbon in the form of carbon dioxide per gram of organic matter per day
<b>O<sub>2</sub> Uptake Respiration Rate</b> (mg O <sub>2</sub> /kg O.M./hr)		≤ 400 mg oxygen/kg of volatile solids (or organic matter)/hour

### D. Pathogens

Pathogen	Test Results	Required Limits
Fecal Coliform (MPN/g dry)		<1000 MPN/g of total solids calculated on a dry weight basis
Salmonella (P-A/25g(ml))		<3 MPN/4g total solids calculated on a dry weight basis

### E. CFIA

Parameter	Test Results
Total Organic Matter (%)	
Moisture (%)	

<sup>1</sup>www.ccme.ca/files/Resources/waste/compost\_quality/compostgdIns\_1340\_e.pdf

<sup>2</sup>www.inspection.gc.ca/plants/fertilizers/trade-memoranda/t-4-120/eng/1307910204607/1307910352783