

David Losie

Bio-solids do not belong on any soil, esp. farmland soil. The risks to the health to humans and all life that ingests and comes into contact with is extreme. Please read list below from a study done by the North Carolina department of health. All toxic substances ever found in must be tested for each time and 100% removed before dumped anywhere, esp. on farmland.

Halogenated volatiles: 1,4-Dichlorobenzene, cis-1,2-Dichloroethylene, Dichloromethane, Tetrachloroethylene; *Non-halogenated volatiles*: Toluene, Meta- and para-xylene, Ortho-xylene, Total xylenes (calculated), Volatile petroleum hydrocarbons; *Base-neutral extractables*: Benzyl butyl phthalate, Bis(2-ethylhexyl) phthalate, Di-n-butyl phthalate, Diethyl phthalate, Dimethyl phthalate; *olycyclic aromatic hydrocarbons*: Acenaphthene, Acenaphthylene, Anthracene, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Phenanthrene, Pyrene; *Chlorinated and nonchlorinated phenolics*: 4-Chloro-3-methylphenol, 2,4 and 2,5 Dichlorophenol, 3,4,5-Trichlorophenol, 2,3,4,5-Tetrachlorophenol, 2,3,4,6-Tetrachlorophenol, Pentachlorophenol, m-Cresol, o-Cresol, p-Cresol, 2,4-Dimethylphenol, 2-Nitrophenol, 4-Nitrophenol, Phenol; *Extractables*: Light extractable petroleum, Hydrocarbons (LEPHs), Heavy extractable petroleum, Hydrocarbons (HEPHs); *Dioxins*: 2,3,7,8-TCDD, TCDD – Total, 1,2,3,7,8-PCDD, PCDD – Total, 1,2,3,4,7,8-HexCDD, 1,2,3,6,7,8-HexCDD, 1,2,3,7,8,9-HexCDD, HexCDD – Total, 1,2,3,4,6,7,8-HCDD, HCDD – Total, OCDD – Total; *Furans*: 2,3,7,8-TCDF, TCDF – Total, 1,2,3,7,8-PCDF, 2,3,4,7,8-PCDF, PCDF – Total, 1,2,3,4,7,8-HexCDF, 1,2,3,6,7,8-HexCDF, 2,3,4,6,7,8-HexCDF, 1,2,3,4,7,8,9-HexCDF, HexCDF – Total, 1,2,3,4,6,7,8-HCDF, 1,2,3,4,7,8,9-HCDF, HCDF – Total, OCDF – Total; *PCDDF's TEQs*: 2,3,7,8-TCDD TEQs, 2,3,7,8-TCDD TEQs; *Metals/Inorganic Chemicals*: Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Tin, Zinc; *Carcinogens (suspected and confirmed animal and human)*: Aldrin, Arsenic, Benzene, Benzo(a)pyrene, Beryllium, Asbestos, Bis(2-ethylhexyl)phthalate, Benzo(a)anthracene, Benzidine, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Cadmium, Chlordane, Chloroform, Chrysene, Chromium VI, Creosote, Chrysene, Dimethyl nitrosamine, Dioxin, DDD, DDE, DDT, Dibenzo(a,h)anthracene, Dieldrin, Dimethyl nitrosamine, 1,2 Dichloroethane, 1,2-Dibromoethane, Heptachlor, Indeno(1,2,3-c,d)pyrene, Lead, Lindane, Methylene chloride, Nickel, PCBs, Toxaphene, Trichloroethylene, Tetrachloroethene, 1,1,2,2-Tetrachloroethane; *odorants*: Hydrogen sulfide, Dimethyl sulfide, Diphenyl sulfide, Carbon disulfide, Dimethyl disulfide, Methyl mercaptan, Ethyl mercaptan, Propyl mercaptan, Allyl mercaptan, Benzyl mercaptan, Thiocresol, Ammonia, Methylamine, Dimethylamine, Trimethylamine, Ethylamine, Triethylamine, Pyridine, Indole, Scatole or Skatole, Acetic (ethanoic), Butyric (butanoic), Aldehydes & ketones Acetaldehyde; *Bacteria*: Salmonella, Shigella, Yersinia, Vibrio cholera, Campylobacter jejuni, Escherichia coli; *viruses*: Hepatitis A virus & E, Norwalk & Norwalk-like Viruses, Rotaviruses, Enteroviruses, Polioviruses, Coxsackieviruses, Echoviruses, Reovirus, Astroviruses, Caliciviruses; *protozoa*: Cryptosporidium, Entamoeba histolytica, Giardia lamblia, Balantidium coli, Toxoplasma gondii; *parasite worms*: Ascaris lumbricoides, Ascaris suum, Trichuris trichiura, Toxocara canis, Taenia saginata, Taenia solium, Necator americanus, Hymenolepis nana