## TABLE 3: REMOVAL RATES OF SELECTED LAND TREATMENT FACILITIES

From Green Land, Clean Streams; The Beneficial Use of Waste Water through Land Treatment.<sup>23</sup> Reprinted with permission from Temple University, Philadelphia, PA. This table summarizes removal rates for several facilities. A typical system distributes combined waste from a soup factory through sprinklers, after primary treatment. Loading rates in some cases are up to 6" per day. Overland flow facilities intentionally allow the water to run off, with treatment by bacteria living on the surface of the soil and plants. This presumably would be indicative of the treatment level greywater would receive if it ran off over the surface: 99%+. Most facilities operate year-round. In cases where frozen wastewater accumulates on the surface, good treatment is apparently achieved when it thaws. It is reasonable to expect that these levels would represent absolute minimums for the treatment that water would receive in residential greywater systems.

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BOD	98%+	98%				99.1%		93%	99.3– 99.7%	95%*	95%		
COD		100%					100%						
Total Organic Content						98.2%	75%						
Suspended Solids		100%				98.2%							
Phosphorous	98%+	87%	97%+	99%		90.0%	100%						
Nitrogen total		40-80%		100%		91.5%	100%						
Nitrogen organic	75– 87%	100%	57-82%										
Nitrogen am- monia	97%	98.2%					100%						
Fluoride		50%											
Chloride					****								
Salt		Slight increase			****								
Potassium			82.8%	118%									
Magnesium			66.7%	11%									
Sodium				0.4%									
Calcium			51.9%	19%									
Boron			67.6%										
ABS (detergent)			(MBAS) 81%	98%	****		100%	97%					
Coliform total	100%						99%+	100%					
Coliform fecal		100%											
Virus pathogenic	100%						100%						
рН	**												**
Other	*****											***	***

Approximate measures Effluent will meet USPH Drinking Water Standard Effluent meets state and/or local health authority test requirement

\*\*\*\* There is no increase in the natural concentration in the groundwater \*\*\*\*\* Heavy metal concentrations will be below the threshold level for fish, wildlife and agriculture