



March 28, 2007

Sludge Solutions International, LLC Sewper Rx (granular host) Y060206C:
7-Day Static-Renewal *C. dubia* & *P. promelas* Definitive Toxicity Results

Bioprocessing LLC
5041 Taravelle Rd.
Marrero, LA 70072

Attention: Boyd Young

Dear Mr. Young:

A pair of 7-day chronic *C. dubia* and *P. promelas* definitive tests (EPA-821-R-02-013) was initiated March 12, 2007 (Appendix A). The sample used in this test was supplied by Bioprocessing LLC on behalf of their client Sludge Solutions International, LLC and delivered to Environmental Enterprises USA, Inc. (EE USA) on March 8, 2007 (Appendix D). Daily, a solution of Sewper Rx (granular host) was prepared at 29.96 mg/L, the recommended application rate (4oz per 1000 gallons water), and mixed for one hour on a stir plate.

The *C. dubia* test included ten replicates each of Sewper Rx (granular host) at 29.96 mg/L and a concurrent laboratory performance control (LPC). The *P. promelas* test included five replicates each of Sewper Rx (granular host) at 29.96 mg/L and a concurrent LPC. Moderately Hard Synthetic Freshwater was used as the diluent and LPC. *C. dubia* were fed 0.1ml *Selenastrum capricornutum* and 0.1ml of Yeast-Cerophyl-digested Trout Chow daily and *P. promelas* test organisms were fed *Artemia* nauplii less than 24-hours old twice daily.

EE #: E-132-07	Statistically Significant Difference between LPC and Sewper Rx (granular host) at 29.96 mg/L		
	Survival	Reproduction	Growth
<i>C. dubia</i>	No	No	N/A
<i>P. promelas</i>	No	N/A	No

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The response used in statistical analysis of survival data was the proportion of surviving test organisms per replicate. The response used in reproduction data analysis (*C. dubia*) was the total number of neonates produced per replicate. The response used in growth data analysis (*P. promelas*) was the average individual dry weight for each replicate: replicate weight divided by the number of original larvae. The Homoscedastic T Test was used to determine if there were statistically significant differences in the endpoints of interest, survival and reproduction for *C. dubia* or survival and growth for *P. promelas*, between the LPC and 29.96 mg/L Sewper Rx (granular host). In these tests, survival and reproduction of *C. dubia* and survival and growth of *P. promelas* were not significantly reduced after exposure to 29.96 mg/L Sewper Rx (granular host). The results for the laboratory performance control and Sewper Rx (granular host) were very similar. Copies of the raw data are presented in Appendix A. Survival, reproduction and growth data analysis and summary statistics for the *C. dubia* and *P. promelas* tests are presented in Appendix B & C, respectively.

Mr. Young, thank you for choosing EE USA to complete this work for Bioprocessing LLC. I appreciate the opportunity and look forward to working with you again. Please call me if you have any questions or comments.

Sincerely,

David L. Daniel
Laboratory Director

Mark A. O'Neil
QA/QC Supervisor

enc: Appendixes A – D

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