



October 4, 2005

Attn: Mr. Don Presley
EMI International
P.O. Box 12107
Pensacola, FL 32590

RE: Letter of Opinion

Dear Mr. Presley:

EMI International has requested The Toxicology Group LLC (TTG) perform an analysis on their DUSTNET process media product to determine if it meets the requirements set forth in NSF/ANSI Standard 61, Drinking Water System Components, Section 7, Process Media. A sample of silica sand that was coated with DUSTNET was submitted on August 2, 2005. The exposure and extraction of the exposure water was performed in accordance with the requirements found in NSF/ANSI Standard 61, Section 7. Analysis of the extraction water was performed to identify the semivolatile compounds via Base/Neutral/Acid 625 Scan and Target list. Heavy metals were analyzed for via ICPMS utilizing EPA Method 200.8. Gross Alpha/Beta Counts were also analyzed for utilizing EPA Method 900. A review of the results tested under job J-00017984 included 72 parameters and identified two parameters that were detected (see table below).

Testing Parameter	Normalized Result	Pass/Fail Criteria
Barium	6 ug/L	SPAC is 200 ug/L
P1 Gross Beta	4 pCi/L	.4 mrem/y

Barium was detected at 6 ug/L, however when compared to the single product allowable concentration (SPAC) established by the Environmental Protection Agency (EPA) of 200 ug/L, **this level is found to meet the pass/fail criteria and therefore would not be an issue.**

P1 Gross Beta was detected at 4 pCi/L, however, the SPAC for the beta particle and photon activity is .4 mrem/y. The conversion from pCi/L to mrem/y is quite extensive, whereby the P1 Gross Beta result is based on a potential combination of over 150 different radionuclides, and in order to make a determination as to what those radionuclides are a specific test for each contaminant would need to be conducted via an established decision tree process that outlines which order to test the parameters. Then, based on the results of each radionuclide analysis, a determination can be made as to whether the P1 Gross Beta result can be written off based on the knowledge of the



specific radionuclides identified in the analysis and the understanding that there is a relationship between pCi/L and mrem/y that would need to be reviewed.

It is also important to note that under most circumstances the radionuclides identified by the additional analysis are usually found to be derived from the inorganic component of the sample, i.e. the silica or sand. Thus, the results from the analysis submitted on behalf of each customer utilizing DUSTNET with their own sand or silica would vary and would need to be tested on a lot to lot basis to confirm that these values are within the pass/fail criteria. This requirement is only for customers interested in submitting their samples for NSF/ANSI Standard 61, Section 7 Certification.

Respectfully submitted,

Jennifer Morr
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