

Interactive comment on “Development and evaluation of new behavioral indexes for a biological early warning system using *Daphnia magna*” by T. Y. Jeong et al.

Anonymous Referee #2

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This paper deals with the use of *Daphnia magna*, a water flea, in a biological early warning system (BWES). Calculation methods are evaluated which are used in a grid counter device. The performance of the combined index was evaluated by exposure tests using synthetic water and effluent. The paper is well written, and the results may contribute to a more useful application of BWESs.

The use of BWESs and the use of water fleas as indicator organism has been mentioned by Butterworth. The introduction is based for a large part on the paper of Butterworth 2001 (page 2 lines 20, 25, page 3 lines 9 and 13). Is this reference the only one available? Please add references to other applications of BWESs.

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Please specify the effluents used in the tests. Are these effluents of waste water treatment plants? If yes, please add words to the introduction, results&discussion and possibly the conclusions, on the applicability of the results of this study in drinking water treatment. Drinking water treatment is the scope of DWES.

I appreciate the elaboration of the problems experienced in the study, page 12, line 19.

The conclusions, page 13 line 3-12 should be in a separate chapter, 4. Add some words to this chapter to enable to read the conclusions as a comprehensive paragraph.

Interactive comment on Drink. Water Eng. Sci. Discuss., 6, 39, 2013.

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