

## ***Interactive comment on “Combined assessment and regulation on ecological land use and water demand of the river system: a case study in Luanhe River, North China” by D. H. Yan et al.***

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We are very grateful for the anonymous referee’s helpful comments and elaborate suggestions. The specific responses to the comments are as follows: (1) The title has been changed to “Assessing ecological land use and water demand of river systems: a case study in Luanhe River, North China.” (2) The misuse of past tense is avoided in the revised manuscript. (15) The number comes from an analysis of the long-term observation data from typical hydrological gauges. (17) There are four kinds of oligochaeta actually. (18) (22) Some numbers come from related literatures in Chinese and are

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omitted in the manuscript. (20) The water-quality suitability index is changed from  $f(W_i)$  to  $f(Q_i)$  to distinguish the section width  $W_i$ . (21) The concept of and approach to obtain suitability index as well as the determination of suitability curves are introduced in Section 3.2.1, and related literatures are added. (26)/(27) With the help of the geometry calculation tool of ArcGIS, the river length of each functional area and the area of ecological land use for various functional areas can be easily obtained. (28) Some numbers of ecological land use areas mentioned in section 4.3 are the total areas of numbers individually listed in two Tables, leading the results confused. The two tables are combined to be a single one in the revised manuscript. (30) suitable ecological water demand should be 820 million  $m^3$ . The referee’s suggestions with regard to other special problems will be adopted in a revised paper.

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