



LUNDS TEKNISKA HÖGSKOLA

Lunds universitet

Department of Water Resources Engineering
Faculty of Engineering
Kamshat Tussupova, PhD

**Academic adviser's report
on the PhD thesis**

***Assessment of Safe Drinking Water Provision in Rural Areas of Karaganda
Region: A Case Study from Bukhar-Zhyrau District***
by Alua Omarova, in the specialty 6D110200 – Public Health

Alua graduated with honors from the Karaganda State Medical University with a degree in Public Health in 2012 and continued her studies in the Master's programme with the corresponding specialty. In 2014, she successfully defended her master's thesis receiving an academic degree of Master of Medical Science. In 2016, Alua entered a PhD programme in the specialty 6D110200 Public Health on a competitive basis.

Alua has a solid theoretical background in water, sanitation and hygiene (WASH) concept and related public health issues. She is fluent in English and perform as independent researcher, who can conduct full cycle research in water related diseases.

During her doctoral studies, Alua was awarded an ICM Grant under the framework of the Erasmus+ KA107 International Credit Mobility program (an exchange program financed by the European Commission) for full-time PhD studies at Lund University, Sweden.

Research work was carried out according to the doctoral student's individual plan. Alua showed a high level of initiative in organizing of her scientific research, took an active part in international conferences abroad and successfully completed all the relevant PhD courses.

The major contribution of Alua's research work is capacity building in access to WASH in rural Kazakhstan. Her major finding such using system approach to ensure improved WASH and assessing access to WASH has been published in peer-reviewed journals: two articles in *International Journal of Environmental Research and Public Health* indexed in the databases Web of Science and Scopus ($IF=2.145$); five abstracts in materials of international scientific conferences, one of them in *European Journal of Public Health* indexed in the databases Web of Science and Scopus ($IF=2.782$), and four articles in some publications recommended by the Committee for Control of Education and Science of the Ministry of Education and Science of Kazakhstan.



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The developed model of system approach to ensure improved WASH got intellectual property right in Kazakhstan registry. To date, the total number of citations to the above publications by Alua is 14 in Scopus and 12 in Web of Science, H-index=2. This fact confirms both the relevance of the investigated problem and the scientific and practical significance of the thesis worldwide.

Thus, the thesis *Assessment of Safe Drinking Water Provision in Rural Areas of Karaganda Region: A Case Study from Bukhar-Zhyrau District* by Alua is complete scientific research work with high practical significance, devoted to important and complex subject, and can be recommended for public defence.

This report is to be submitted to the Dissertation Defence Board of Karaganda Medical University, Kazakhstan.

Kamshat Tussupova, PhD
Academic adviser

