

TAKING INTO ACCOUNT THE INFLUENCE OF WIND ROSE DURING THE DIVISION OF LANDS, ADJACENT TO THE "KARAZHYRA" COAL DEPOSIT

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The article considers the influence of the wind rose on the lands adjacent to the Karazhyra coal mine on the territory of the Semipalatinsk nuclear test site. It is assumed that the influence of the wind rose is an important environmental factor in the cadastral value of land contaminated with radionuclides. The purpose of the study is to assess the impact of secondary pollution by technogenic radionuclides on the territory adjacent to the nuclear test site and to determine the movable boundaries of such pollution. The impact assessment was carried out on the basis of an analysis of the factors contributing to the spread of pollution at the mine itself and along the road used to deliver contaminated coal to Semey. As a result, the types of work affecting the radiation situation in the study area were identified, the main directions of air flows in the field area were determined. The conclusion is made about the influence of the situation on the methodology for performing geodetic works. Requirements for the accuracy of determining the boundaries of contaminated land plots are proposed.

Keywords: Semipalatinsk nuclear test site, wind rose, directions of air flows, radioactive contamination, land plot boundaries, Karazhyra coal field

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