

Method for the separate collection of groundwater during open-pit mining involves digging drainage ditches on the quarry benches corresponding to the location of the aquifers, directing the collected water into an open collection basin, and pumping the collected water through a pipeline system to the surface into a settling basin. The location, flow rate, and mineralization of the aquifers are determined; drainage ditches are formed on the benches with a slope of 0.02-0.03 and screened. Water collection basins are formed, separate for each of the exposed aquifers, and screened; their location and capacity correspond to the position and design flow rate of the respective aquifer. A pipeline system is laid separately from each screened water collection basin to the surface. Surface storage reservoirs are constructed outside the quarry and screened to accumulate water with varying levels of mineralization for subsequent use, with preliminary treatment as needed.