

## **Research regarding measure method of cavity around sluiceways**

### **[ Point ]**

Sluiceways are important water control facilities, constructed across levees, and also work as levees, however, many examples of damage exist, especially, cavity formation on borders between foundation ground and neighbouring levees. Therefore, establishment of urgent and effective measure method is required. In this research, we aimed to clarify piping crush generating mechanism to examine cavity measure method. In addition, we grasped effect of seepage control construction, which installed on sluiceways, and also examined its design method.

As a result, we verified that by the existence of cavities, stability of levees around sluiceways is significantly lowered. Moreover, we verified that locations and spacing of seepage control construction effect on their efficiency.

Keyword : river levee, sluiceway, cavity, piping, seepage control construction