

Development of countermeasure technique for dioxins polluted soil in construction field (1)

[Point]

With recent exposure of dioxins pollution in various regions that have been caused by waste treatment site as a background, it is required to conduct appropriate countermeasure when encountering dioxins pollution in construction project. For this reason, this study is conducted for the purpose of developing countermeasure construction method that prevents the expansion of dioxins pollution that has been encountered in water area and in land area.

As a result, high applicability of covering soil and mudsill construction method, impermeable wall construction method, and solidification construction method, which inhibited transfer of soil particles, was revealed as countermeasure construction method of polluted soil in land area, because most of the dioxins in the soil transferred with soil particles as suspended dioxins. Furthermore, experiment of containment construction method was conducted by using bagged dehydration process construction method as countermeasure construction method of polluted bottom sediment in water area, and it was confirmed that 99.9% or more dioxins could be bagged inside a bag, dehydrated, and reduced.

Keywords: dioxin, countermeasure, column test, bagged dehydration process construction method