

# Construction and Public Relations of the Temporary Toilet System Directly Connected to Sewers in Yokohama City

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## 1. Introduction

Damage to sewage system caused by earthquake in affected areas has had great influences on the civic life, by making it impossible to use toilets. To assure toilet functions in locations such as local disaster prevention bases, we have installed temporary toilet systems that are directly connected to sewers.

## 2. Construction of the temporary toilet system directly connected to sewers

We promote the toilet system that will be available for sanitary use even in such cases. Figure 1 shows outline of this toilet system. Their structures reduce differences in level, and this makes it very easy for people in wheelchairs

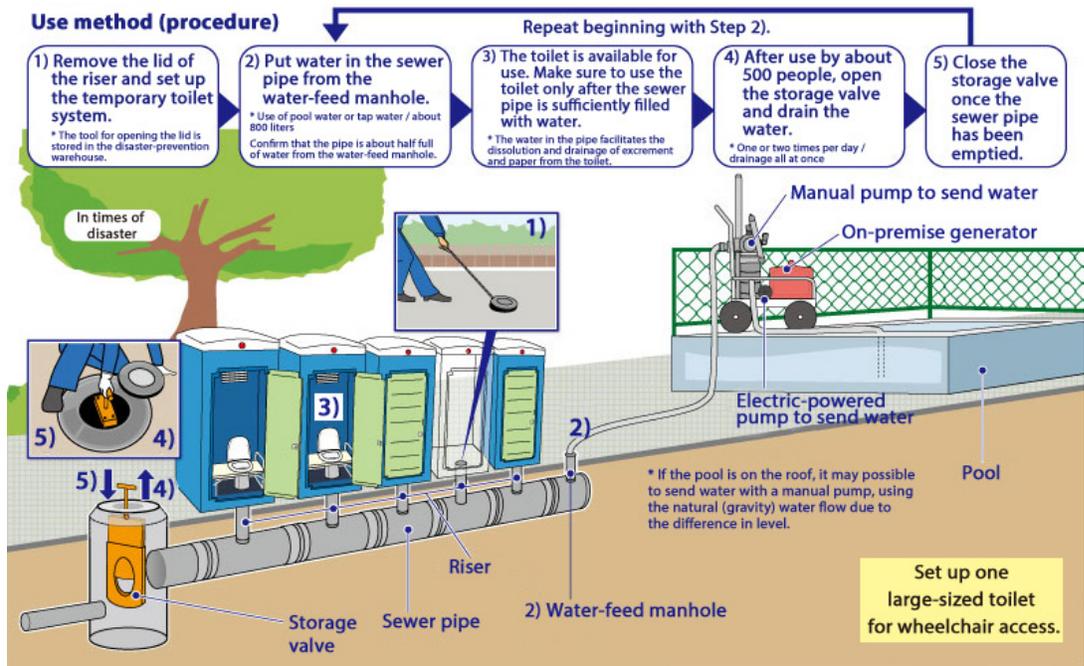


Figure 1. Outline

and elderly people to use. We install new pipes on a route differing from that of the existing house drain at the local disaster prevention base, and connects those pipes to the existing public sewers. It is also steadily making diagnoses of the degree of earthquake resistance of these public sewers and increasing this resistance as necessary. By the end of fiscal 2015, the systems had been installed in 110 locations, including 69 locations in local disaster prevention bases within districts estimated to be at risk of damage by ground liquefaction.

### 3. Public relations

In the event of disaster, evacuees will be asked to set up and manage toilet systems at local disaster prevention bases. Therefore, we are engaging in various public relations (PR) activities. We have its personnel participate in local disaster-prevention drills to explain the use procedure while actually doing the assembly work. In the context of local disaster-prevention drills, only a limited number of citizens can learn about the toilet systems. However, it has also prepared explanatory motion videos so that citizens can learn about the use procedure even in the absence of city personnel. It is distributing this motion video in the form of DVD and through YouTube. Figure 2 shows screens from the DVD. Furthermore, we consequently prepared models so that many more citizens could gain knowledge of them. Figure 3 shows a model of the toilet system. We display these models and does PR work for the toilet systems at various events etc. that attract people of all ages.

We have installed signs with illustrations showing how to use the toilet systems at locations near them. Furthermore, it is pasting stickers with a quick response (QR) code on the signs. The codes provide linkage to the city's website, through which citizens can view the explanatory motion video. In the future, in addition to continuing with its PR activities to give even more citizens knowledge of how to use the toilets, we hope to induce an upward spiral of improvement through performance of the plan, do, check, and act cycle.



Figure 2. Explanatory video



Figure 3. Model