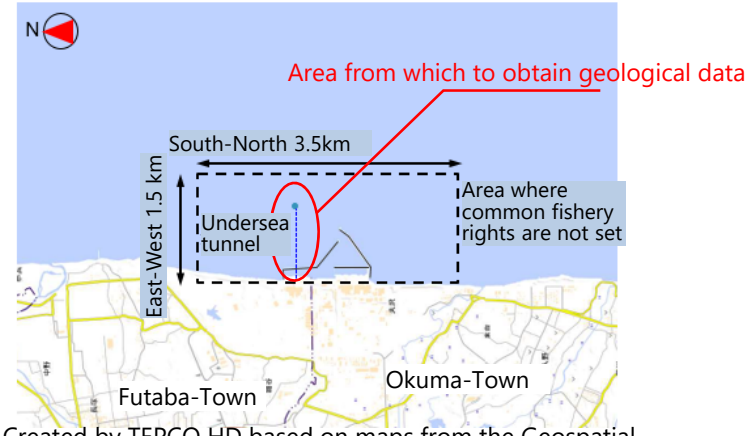
Geological survey in sea areas relevant in deliberating facilities for water treated with ALPS, etc. at the Fukushima Daiichi Nuclear Power Station

＜Reference Material＞
November 26, 2021
TEPCO Holdings
Fukushima Daiichi D&D Engineering Company

- Following the Japanese government's basic policy (decided in April 2021), TEPCO has been deliberating in greater detail the design and operation of facilities related to the handling of water treated with ALPS, etc. to minimize adverse impacts on reputation with safety as the basic premise. Progress made in the deliberation was made public on August 25, 2021.
- Taking into account the opinions of parties concerned, we will continue our deliberation regarding the water intake and discharge facilities, which, under the current plan, will take in water from outside of the harbor, and take it through an undersea tunnel that will span 1km to discharge the ALPS treated water off the coast. [Already published]

- The magnetic survey is scheduled to start on or after November 27 and the geological survey on or after December 1 in sea areas that require geological data for a detailed study of the intake and discharge facilities and to secure safety in works.
- In addition, improvements in the surroundings (installation of soil retention and excavation, etc. around the drainage shaft) near the intake of Units 5/6 are scheduled to start around early in December.
- The surveys and improvements do not correspond to facility construction that requires changes in the implementation plan and, will be conducted with safety as the top priority taking into consideration sea and weather conditions.



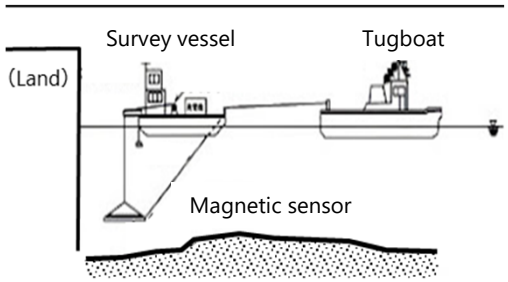
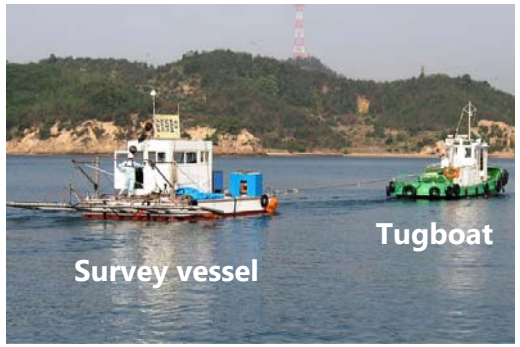
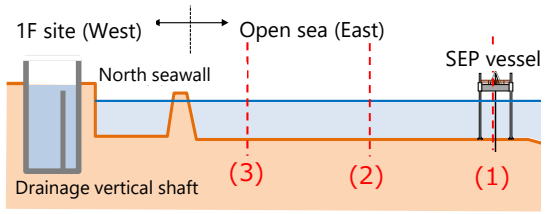
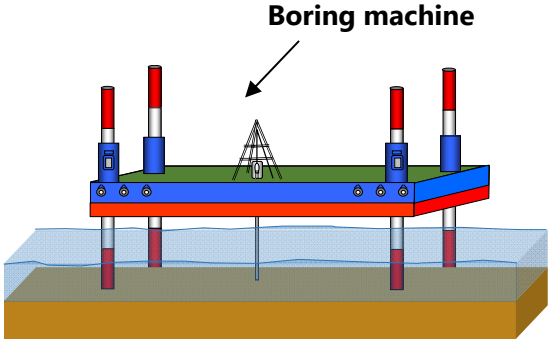
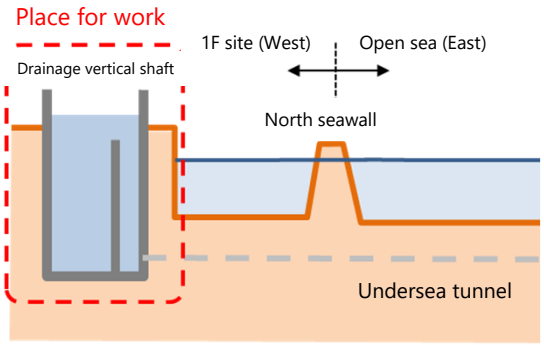
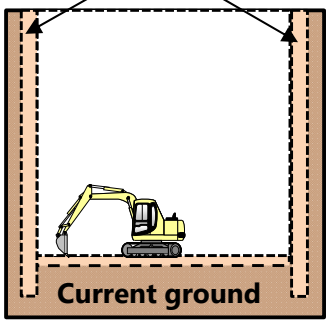
Source: Created by TEPCO HD based on maps from the Geospatial Information Authority of Japan
https://maps.gsi.go.jp/#13/37.422730/141.044970/&base=std&ls=std&disp=1&vs=c1j0h0k0l0u0t0z0r0s0m0f1

Schedule

November	December	January and thereafter
①Magnetic survey (Preparation for the geological survey)		
	②Geological survey	
		③Improvements in the surroundings

※Schedule is subject to change depending on sea and weather conditions

（Reference） Magnetic survey/geological survey/improvements in the surroundings

	① **Magnetic survey** （Preparation for geological survey）	② **Geological survey** （Marine boring survey using an SEP vessel）	③**Improvements in the surroundings**
Objective	Confirm ahead of the geological survey (offshore boring survey), that there are no obstacles on the seabed in the area to be surveyed using a magnetic exploration sensor (obstacles, if identified during the survey with a vessel, will be further observed by diving)	Obtain necessary geological data for studying water intake and discharge facilities (undersea tunnels, etc.) in detail (3 areas) [If the geological survey is prolonged due to the influence of meteorological and oceanographic conditions, we will also consider alternative methods other than SEP vessel.]	Improvements (such as installation of soil retention and excavation) for the installation of a drainage shaft and the construction of an undersea tunnel (main construction)
Diagram	 	(Boring area)  **SEP vessel(※)** **Boring machine** 	 **Drainage shaft** **Soil retention wall** 

（※） Abbreviation for self-elevating platform