Completion of Seaside Impermeable Wall Closure at Fukushima Daiichi Nuclear Power Station

For Reference
October 26, 2015
Tokyo Electric Power Company

■ A series of construction works to close the seaside impermeable wall was completed today after placing all the steel pipe sheet-piles and connecting the joints between them. The construction work will continue to fill up inside the wall.

Construction Summary

- Starting Date: April 25, 2012
- Completion Date: October 26, 2015 (Completion of Closure)
- Number of Steel Pipe Sheet-Piles Placed: 594
- Length of the Wall: approx. 780 meters
- Contract Companies: Kashima Corporation, Maeda Corporation, etc.

⇒ The wall closure can further prevent ocean contamination by blocking groundwater that flows from the landside of Units 1 to 4 to the port area. It can also significantly reduce the risk of contaminated water flowing into the ocean in case of any leakage.

⇒ Completion of the seaside impermeable wall closure marks a significant progress in one of the three basic principles for water management; “RETAIN contaminated water from leakage,” together with “REMOVE the source of water contamination” and ” REDIRECT fresh water from contaminated areas.”

■ The effects of stopping the groundwater flow have started to appear as a rise in groundwater levels on the landside of the seaside impermeable wall. Close monitoring of the port area will be continued.
■ The Subdrain systems will continue to be operated by managing the related facilities and keeping the upper limits of radioactive concentrations.

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Placement of steel pipe sheet-piles

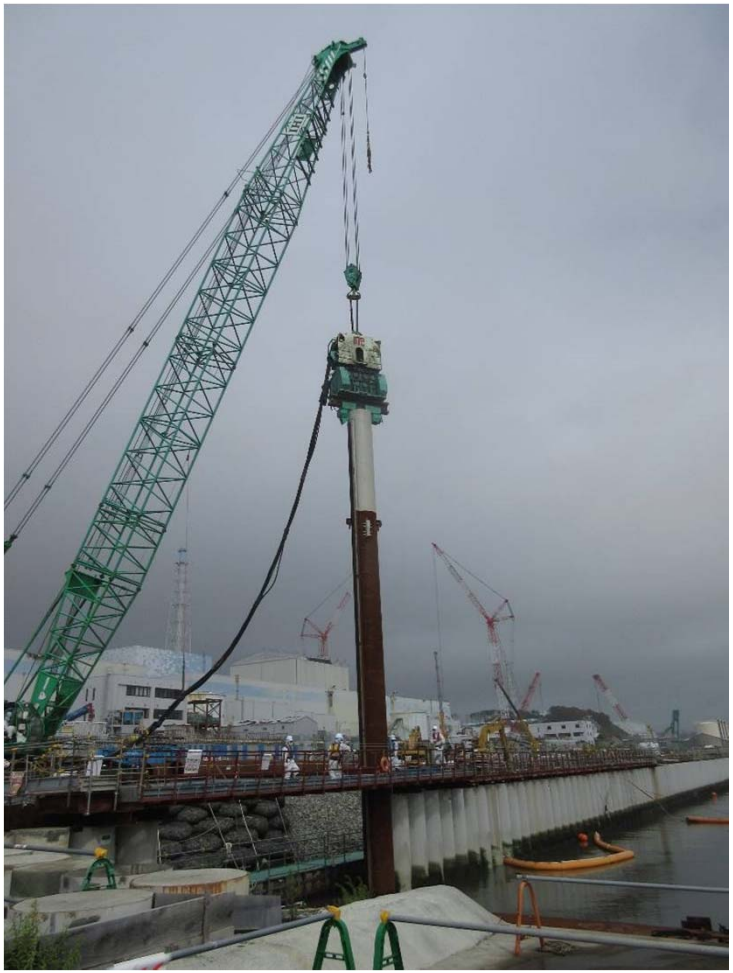


Photo taken on September 10, 2015

Completion of closure

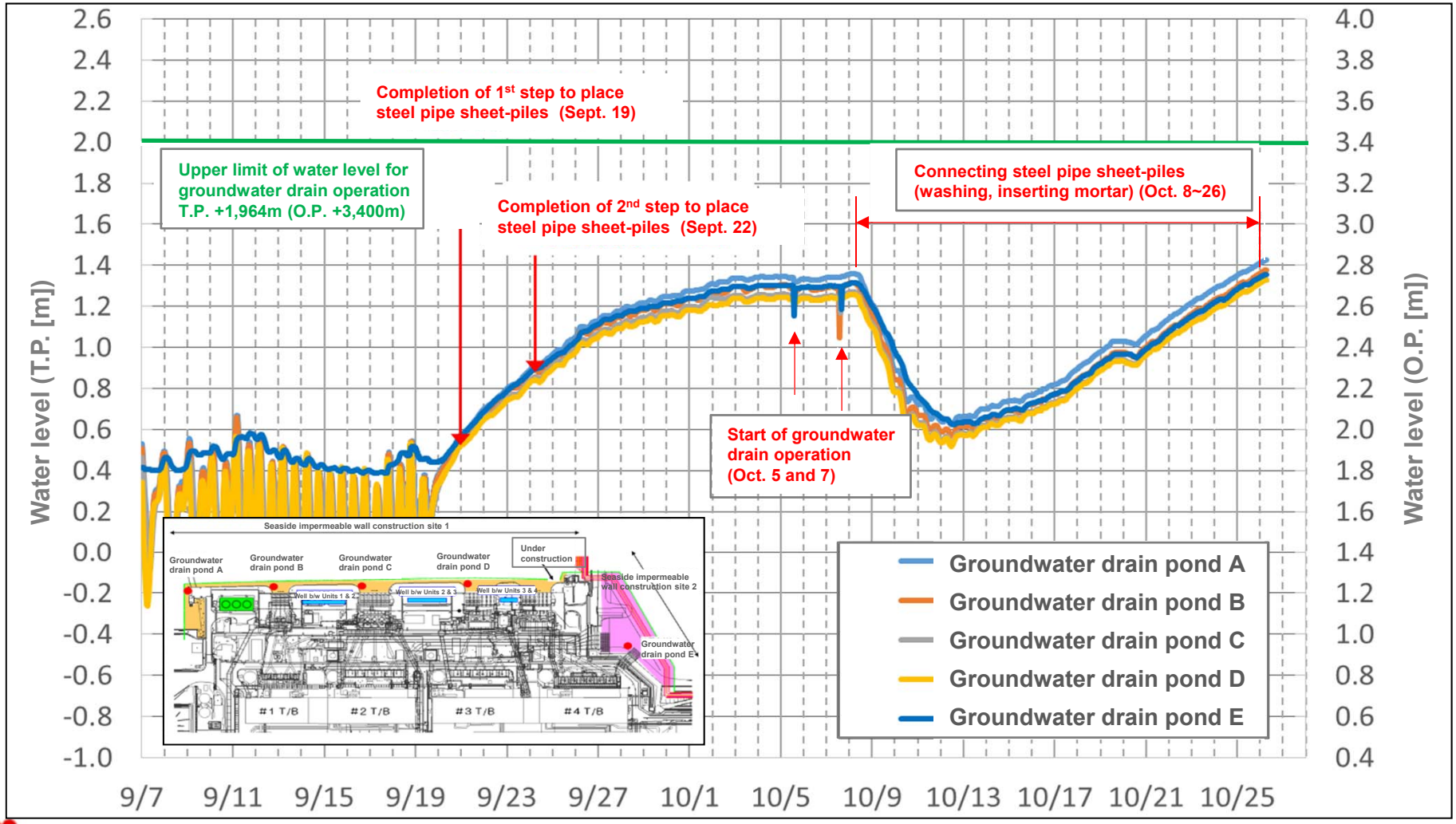
← Joint between steel pipe sheet-piles

Photo taken on October 26, 2015

Photos taken by Tokyo Electric Power Company

Reference: Closure of seaside impermeable wall and fluctuation in water levels of groundwater drain

- The water levels inside the groundwater drain ponds rose after placing steel pipe sheet-piles into the earth, fell temporarily after washing the joints between the sheet-piles (October 8, 9, and 19), and finally rose again after inserting mortar into the joints.



*The water level (O.P) is used as a reference to be able to compare easily with the height above sea level before the earthquake. To convert the water levels (T.P.) into the water levels (O.P.), 1438mm needs to be added.