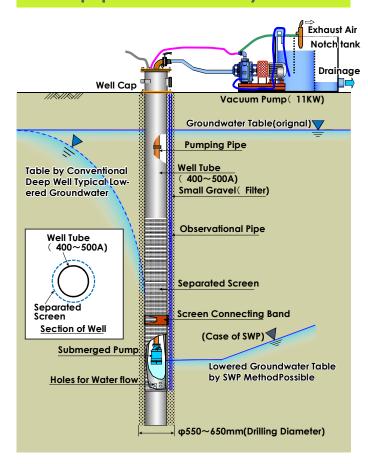
SWP Method

Newly Developed Groundwater Level Lowering Method

Equipments of SWP System



Merits of SWP Method

- -A large amount of groundwater can be pumped up compared with the conventional deep well and vacuum deep well.
- -Dehydrating effect of unsaturated ground(formed above groundwater table) is improved.
- -If a cut-off wall is constructed around the selected site, the reduction of groundwater table can be mitigated outside of the cut-off wall.

Primary Applications of SWP Method

- -Pumping up of Groundwater (Groundwater lowering method)
- -Heaving Prevention
- -Reduction in water content in low permeable ground

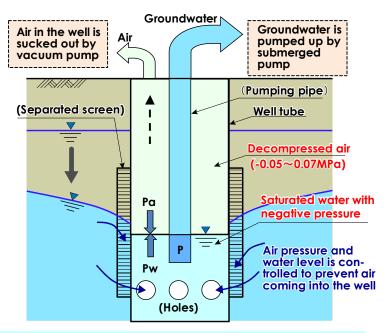
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Principle of SWP Method



" In the SWP method, groundwater flows toward the bottom of the well due to negative pressure and gravity, and is then pumped up by a submerged pump"



A comparison of the Pumping Amount between SWP and conventional Deep Well at Open Cut Tunnel site near Shinano River (Niigata City, Japan, 2000)



Groundwater Level Lowering at a Large-scale Open Cut site (Hachioji City, apan,2015)



Heaving Prevention with the help of Pumping up Groundwater at a Sewage Plant Building site (Ichikawa City, Japan,2014)



Dry Work at site of Tide Gate Foundation in Tide Wall (Kamaishi City, Japan, 2010, before The Great East Japan Earthquake)