HOW TO BUILD A PHOSPHORUS PRECIPITATION UNIT FOR DITCH WATER TREATMENT







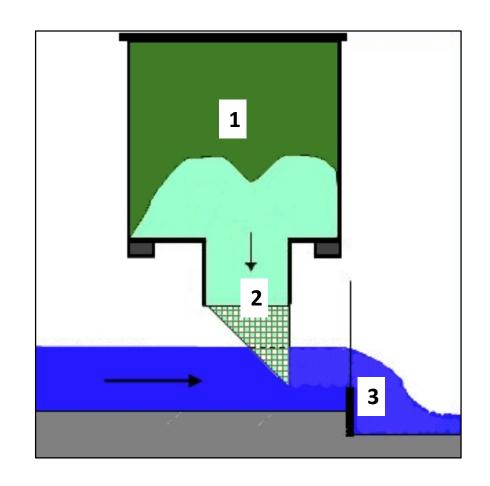


Direct phosphorus (P) precipitation can be used for load reduction in open ditches.

Gravity and discharge operated P precipitation unit was originally developed at MTT by Aaro Närvänen

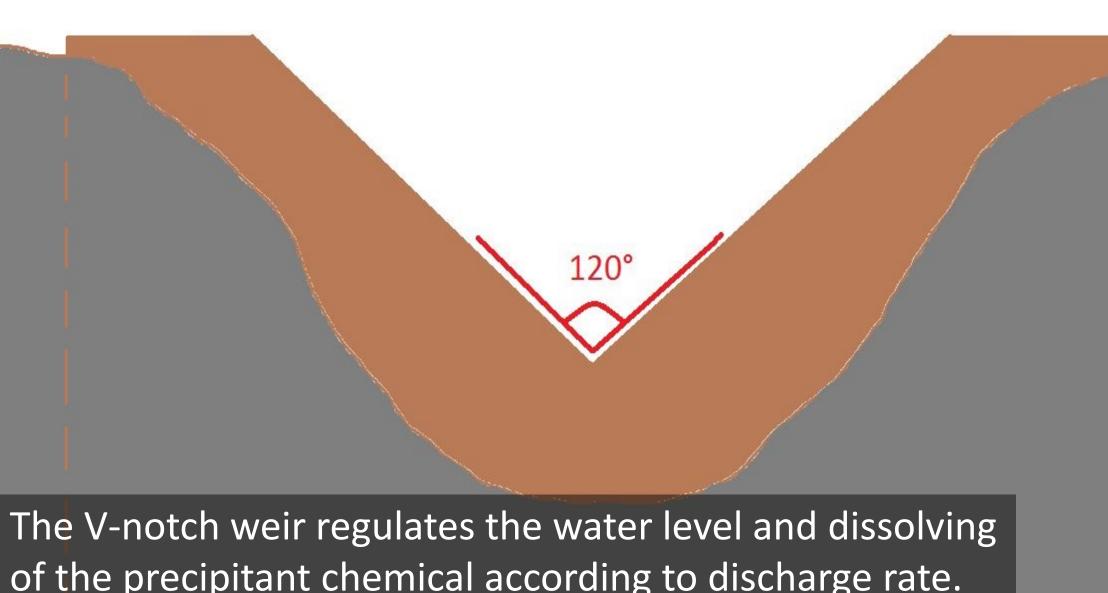
The unit consists of:

- Precipitant storage (1)
- Dispenser cone (2)
- V-notch weir (3)







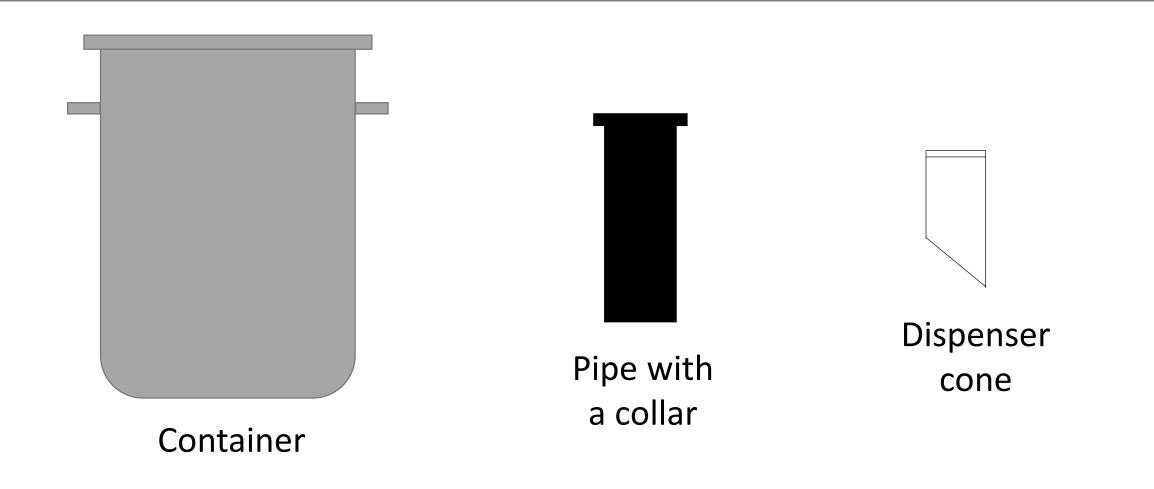


of the precipitant chemical according to discharge rate. The plywood is cut to a 120-degree angle.





The chemical dispenser is built from a container, a polyethene pipe with a collar and a polyester dispenser cone.



The pipe is installed at the bottom of the container by making a hole on the bottom, so the pipe barely fits in it. The collar on the pipe is used to tighten any gaps on the bottom by using big screws. Sealing foam was also used under the collar to prevent any moisture getting in to the container from below.









After all installations, the container is secured on its position and locked from the top.





The phosphorus precipitation unit ready and working!

