

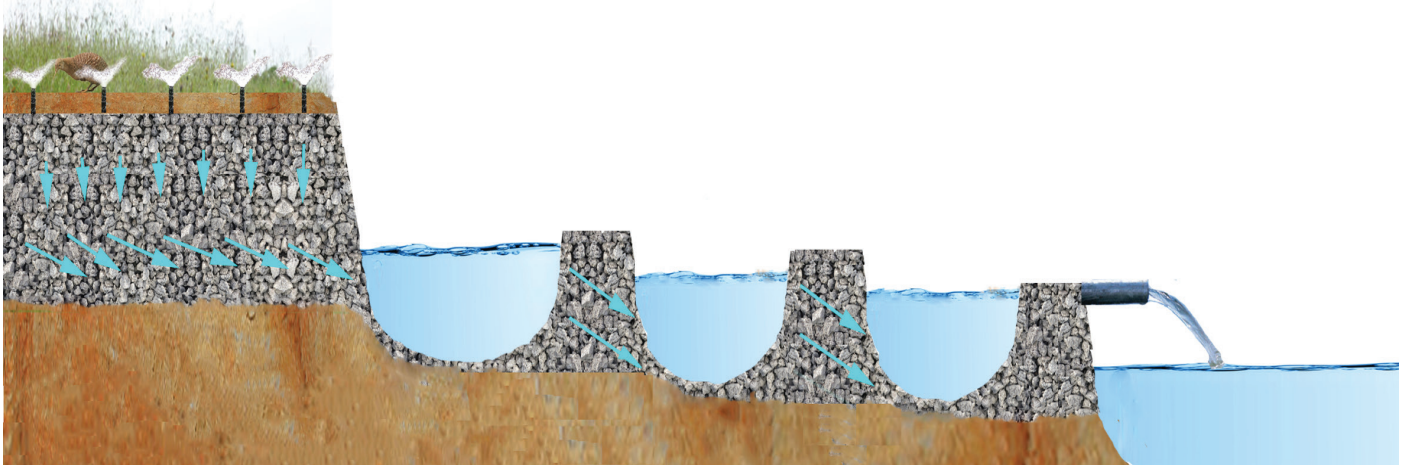
WATER TREATMENT – Horizontal Percolation

FOR MANY YEARS NEW ZEALAND STEEL IRONMAKING AGGREGATES HAS BEEN USED IN FILTER BEDS TO IMPROVE INDUSTRIAL PROCESS AND STORMWATER DISCHARGE.

Case Study:

Whilst New Zealand Steel already met stringent water discharge conditions, in 2004 the decision was made to further improve the quality of its process water discharge.

Stormwater collected from its 190ha site passes through a series of settling ponds, including a vertical percolation pond, purposely designed for this application using 280m³ of Melter Ecoflow aggregate. The flow rate through this pond is 65m³/hr.



As a result of the introduction of these filter beds, 60 percent of the remaining suspended solids and 80 percent of the remaining zinc is removed from the water being discharged.

Ecoflow is a natural by-product of New Zealand Steel's unique Ironmaking process. Ecoflow has the ability to capture undesirable nutrients from waste water, along with heavy metals present in sewage and the like.

The use of Ecoflow as a filter aggregate in these applications has proven to be an effective, low cost method of significantly improving water quality.

