

REDUCE FLOODING BY INCREASING INFILTRATION

The Energy-Passive Groundwater Recharge Product (EGRP®) accelerates infiltration into and through poor soil conditions and poor soil types. The result? Instead of water pooling or excess stormwater runoff, those same soils can now infiltrate water 5-10x faster than before.

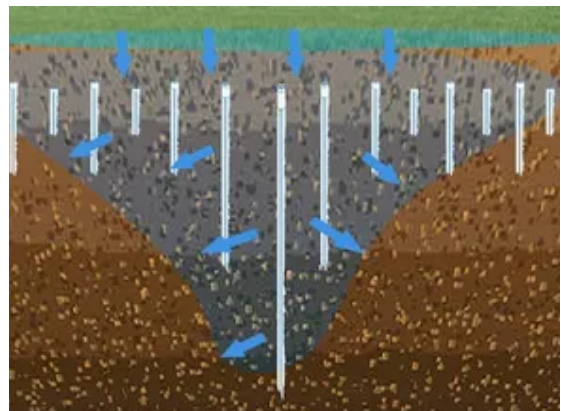


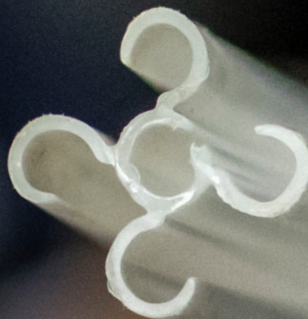
A Noble Beginning

The idea behind the EGRP came about as its inventor was studying diseases in third world countries. He noted that many of the diseases in those countries, such as malaria, were closely connected to the existence of standing water and the resulting bacteria, and insect breeding. Why does water pool in certain places and not others? What if there was a way that we could help this water infiltrate? Less standing water, less bacteria, less insects, less disease, less loss of life.

Innovative Horizontal Infiltration

A series of EGRP® devices are installed vertically into the ground underneath natural topsoil, which allows water entering the EGRP network to be naturally filtered. The EGRP arrays initially capture surface water and subsequently dewater upper soils, thereby preparing the upper soil layer for the next wet-weather event. The water that enters the EGRP is then pumped outwards into the various soil layers via capillary action naturally occurring movements of soil and earth.





A GAME CHANGING INNOVATION

Increase Infiltration Rates by 5-10x

By accelerating infiltration into and through the near surface soils, EGRP® technology increases the volume of stormwater that can be stored, infiltrated and ultimately recharged. Surface water that would have pooled or run off is captured below grade and filtered, thereby improving water quality and reducing flooding.

As the flow paths between soil layers are established and moisture content is restored to the soils, infiltration capacities can be improved by a factor of 5-10x the existing rates.

Key Benefits:

- Infiltrate standing water
- Reduce runoff water and downstream flooding
- Stabilize soil moisture content
- Recharge groundwater
- Manage surface water

Day #3 After Flood Event - Without EGRP



Day #1 After Flood Event - With EGRP



Stronger Together

The total volume of water to be infiltrated by the EGRP® can be enhanced by pairing it with other common stormwater water practices that capture peak stormwater volumes. EGRP works well with ponds, bioretention systems, and other subsurface storage systems. This “systems approach” captures stormwater runoff, stores the peak volume, adsorbs certain pollutants of concern, and allows large volumes of water to infiltrate over time.

The EGRP® can be enhanced by pairing it with a other common stormwater best management practices

10-Year Performance Warranty | 25-Year Product Warranty | \$0 Maintenance Costs