

Pipe Reactor Deployment Guidance

Designed by Frog Environmental, the Pipe Reactor forms part of a scalable water treatment system designed for construction sites to protect local watercourses from silt pollution.

It optimises flocculant mixing so that when water is passed through the barrel and a mixing zone, fine silts and clays bind together. Smaller particles then become easier to trap through settlement or using Frog's Silt Capture Channel.

The system delivers forced mixing of Gel Flocculant via 4" Bauer connections and a specially designed barrel. Silt impacted attenuated water is either pumped or drained through the Pipe Reactor prior to being discharged through a Silt Capture Channel. At least 50 meters of lay flat hose should be placed between the Pipe Reactor and the Silt Capture Channel(s) to allow for mixing of sediment and flocculant.

A Pipe Reactor is highly portable and requires minimal maintenance. It comes pre-loaded with the prescribed Gel Flocculant blend, as determined by the Settlement and Flocculant Validation Test conducted by Frog Environmental.

For ease of maintenance, particularly on uneven ground, it is recommended that the Pipe Reactor is left on its delivery pallet.

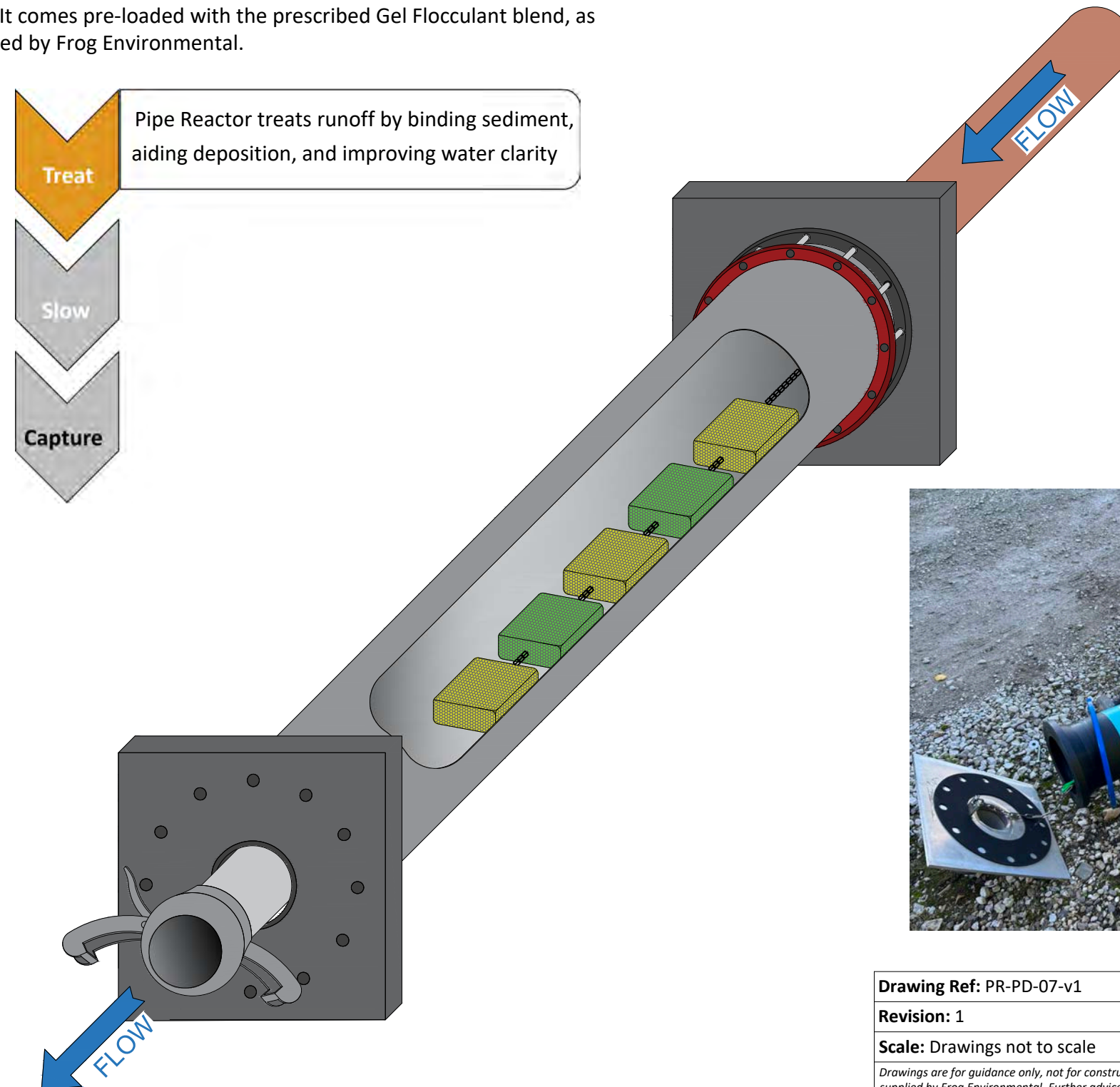
Please note that the Gel Flocculant blocks are delivered in a dehydrated state and will require a few hours to fully hydrate to begin working effectively.

Function: Treatment of silty or clay laden water from lagoons, swales, ponds and attenuation features

Dimensions: 2200mm long, 250mm barrel width, 460mm plate width, 4" Bauer connections

Flow rate: Max. flow 1,800 litres/minute. Note that a typical Silt Capture Channel has a max flow rate of 900 litres/minute. Optimal flow rate is site specific, effective treatment may require lower flow rates.

Material use: 100% recyclable materials. HDPE barrel, steel fittings



Drawing Ref: PR-PD-07-v1

Revision: 1

Scale: Drawings not to scale



Drawings are for guidance only, not for construction purposes. Ensure risk has been assessed prior to deployment of products supplied by Frog Environmental. Further advice available by contacting us at www.frogenvironmental.co.uk/contact-us

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