Introducucing Additional Levels of Treatment Into Pervious Pavements and Other Infiltration Devices Nan P Newman

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Infiltrating Porous Pavement





Fate Of Oil In The System

Biofilm Formation on Geotextile



Plastic Void Forming Boxes





Experiment

13mm rain applied. Samples collected from outfall.



Experiment

System allowed to drain overnight



First Rain Event-Infiltration Block Surface



Experiment

Another 13mm "Rain"

Free Product Observed In Collection Vessel



Overnight and Rain Event 2-Infiltration Blocks













Two Levels of Treatment

- Filtration and retention on upper geotextile layer
- Gravity separation in permaceptor.

The Floating Mat a Third Level of Treatment



The Floating Mat a Third Level of Treatment

Adsorption – Retention - Bioremediation























Cumulative Carbon Dioxide Production



Time days





Storage and Attenuation Using Impervious Surfaces

- Why infiltrate through the surface.
- Filtration and oil retention.















Infiltration Via a Sand Filter

Potential to Retrofit











