

Permeable Pavement Parking Lot Demonstration Site

This experimental parking lot demonstrates and allows EPA to document the capabilities of three types of porous pavement: interlocking concrete pavers, porous concrete, and porous asphalt. Stormwater runoff passes through porous pavement and seeps, or infiltrates, into the ground, mimicking natural hydrological processes, reducing the amount of pollutants in the runoff, and reducing the runoff volume.

Research

Runoff flows from the conventional asphalt of the driving lanes to drain into the three porous surfaces.

Runoff is collected after it filters through the porous pavement, allowing researchers to measure volume, flow rates, and quality. Monitoring instruments installed in and beneath the porous pavement allow study of the movement of runoff through the pavement, underlying layers, and into the native soil.

Conventional Impervious Asphalt

Interlocking **Concrete Pavers**



Results

The parking lot will help EPA determine whether the three different permeable surfaces:

- Cool more effectively than conventional surfaces.
- contaminants.

Crushed Concrete Storage Layer

Acknowledgements

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Porous Concrete

Permeable Geotextile

• Reduce stormwater volume flowing to receiving waters. • Improve water quality by removing solids and other environmental

