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Effects of Selected Low-Impact-Development (Lid) Techniques on Water Quality and Quantity in the Ipswich River Basin, Massachusetts-Field and Modeling Studies: Usgs Scientific Investigations Report 2010-5007

By Jeffrey R. Barbaro

Bibliogov. Paperback. Condition: New. This item is printed on demand. 136 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. During the months of August and September, flows in the Ipswich River, Massachusetts, dramatically decrease largely due to groundwater withdrawals needed to meet increased residential and commercial water demands. In the summer, rates of groundwater recharge are lower than during the rest of the year, and water demands are higher. From 2005 to 2008, the U. S. Geological Survey, in a cooperative funding agreement with the Massachusetts Department of Conservation and Recreation, monitored small-scale installations of low-impact-development (LID) enhancements designed to diminish the effects of storm runoff on the quantity and quality of surface water and groundwater. Funding for the studies also was contributed by the U. S. Environmental Protection Agency's Targeted Watersheds Grant Program through a financial assistance agreement with Massachusetts Department of Conservation and Recreation. The monitoring studies examined the effects of (1) replacing an impervious parking lot surface with a porous surface on groundwater quality, (2) installing rain gardens and porous pavement in a neighborhood of 3 acres on the quantity and quality of stormwater runoff, and (3) installing a 3,000-square foot (ft²) green roof on the quantity and...



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