



# Groundwater Monitoring, The Pinehills

## Plymouth, Massachusetts

The Horsley Witten Group, Inc. (HW) has been intimately involved with the permitting, design and construction of the 3,000-acre mixed-use Pinehills development. As part of the permitting process, detailed compliance monitoring is required to ensure that the development continues to meet all environmental permit requirements.

HW has designed a sampling plan to comply with the sampling and reporting requirements of the Pinehills Groundwater Discharge Permit (GWDP) and the drinking water New Source Approval (NSA) Permit. A detailed sampling protocol, in accordance with MA DEP protocols, was developed to ensure that the methods and procedures of sample collection and sample handling are consistent over time.

Groundwater samples are collected from key monitoring wells on a regular basis and analyzed for numerous water quality parameters. Collected samples are appropriately preserved and cold-stored until delivered to a certified laboratory for analysis. Laboratory results are analyzed and quarterly reports are sent to MA DEP per the GWDP and NSA requirements.

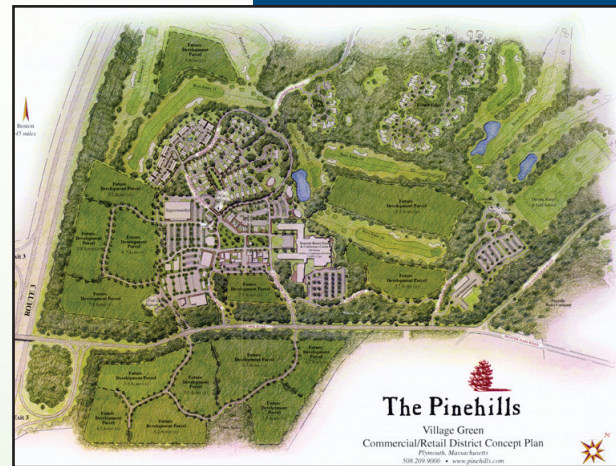
Water quality monitoring of the Eel River and Great Island Pond is also conducted as part of the GWDP permit requirements. Surface water samples are collected and submitted to a certified laboratory for the analysis of key water quality parameters. Biological monitoring such as periphyton, phytoplankton, macrophyte and macroinvertebrates are also sampled and analyzed at pond and stream locations throughout the Eel River as well as at Great Island Pond.

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