

2012 NJ Envirothon Team Presentation Problem

Located in northern Middlesex County, Woodbridge is a mature suburb of the New York Metropolitan region. The Township is one of the most accessible in New Jersey and it is the only municipality where the Garden State Parkway and New Jersey Turnpike intersect. There are also a plethora of other major roadways in the Township, which includes Route 287, Route 1, Route 9, Route 27, and Route 35.

Woodbridge has demonstrated its commitment to growing green communities and jobs. It is one of only four municipalities in New Jersey to be certified by Sustainable Jersey as a Silver Level community. Woodbridge has initiated a successful “green buildings” program. Woodbridge has implemented some of the state’s most comprehensive initiatives to increase recycling and reduce greenhouse emissions. Woodbridge is actively expanding its partnerships with businesses, universities and governments to ensure green business and job growth. Woodbridge has the ideal location with transportation networks to access one of the largest, most concentrated national markets for green building materials, construction and services in the US.

The proposed Green Technology Park at Woodbridge is situated on a 107-acre site adjacent to Woodbridge Creek, near its outfall into Arthur Kill. The site is bounded by the New Jersey Turnpike to the northwest, the NJ Transit North Jersey Coast Line to the west, Woodbridge Creek to the east, and the City of Perth Amboy to the south. Much of the area lies within the flood plain of Woodbridge Creek, with wetlands scattered across the site. Industrial uses have been prevalent on the site since the middle of the past century, with some uses dating back to the middle of the 19th century. Filling may have occurred over time, but the nature and extent of fill is not yet known. The primary access to the site is from Woodbridge proper via Woodbridge Avenue and Cutters Dock Road.

Your team has been hired by the Woodbridge Township Re-development agency to act as a planning consultant. You are charged with identifying **four** environmental constraints on the site and advocating **at least one** Low Impact Development strategy per environmental constraint. Include the critical design components of your Low Impact Development solutions incorporating ideas on how your strategies can be promoted to the community considering costs and conservation of natural resources.

Recommended links:

<http://www.twp.woodbridge.nj.us/LinkClick.aspx?fileticket=mfsivp4WINM%3d&tabid=1334&mid=3542>

<http://www.twp.woodbridge.nj.us/LinkClick.aspx?fileticket=oE3cf6DWcrg%3d&tabid=751&mid=2647>

<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=124>

<http://www.epa.gov/owow/NPS/lidnatl.pdf>