



Stormwater Management Plan, Yorktown Heights Wastewater Treatment Facility

Town of Yorktown, New York

The Yorktown Heights Water Pollution Control Plant (WPCP) is located along the banks of Hallocks Mill Brook in the Croton Watershed, a key drinking water source to New York City’s water supply system. The Town of Yorktown is under a consent order to upgrade the wastewater treatment plant to meet New York City watershed regulations. The plant upgrade includes the demolition of existing sand filters and construction of proposed wastewater treatment facilities, as well as the associated site grading, utility installation, and drainage improvements. Since additional impervious area is being created on the site, the Town also needs to update the plant’s stormwater management practices and prepare a Stormwater Pollution Prevention Plan (SWPPP).



The Horsley Witten Group, Inc. (HW) was recommended by the New York City Watershed Inspector General and retained by the Town of Yorktown to design the stormwater management system for the Yorktown Heights WPCP and prepare the SWPPP for the project. HW employed a “treatment train” approach that incorporates separate practices to capture, convey, pre-treat and treat stormwater runoff from the site. The intent of the stormwater management design was to maximize the pollutant uptake from the stormwater runoff by means of vegetated surface management practices (grass-lined swales, bioretention systems) while providing stormwater flow control and conveyance. Site constraints included steep slopes, proximity to the floodplain of Hallocks Mill Brook, and shallow depth to bedrock.

Client: Judith Graham, Geologist
Stearns & Wheler, LLC
315-655-8161

HW Contact:
Rich Claytor, P.E.

www.horsleywitten.com

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Sandwich, MA

90 Route 6A
Sandwich, MA 02563
tel: 508-833-6600

Newburyport, MA

30 Green Street
Newburyport, MA 01950
tel: 978-499-0601

Providence, RI

370 Ives Street
Providence, RI 02906
tel: 401-272-1717