



CASE STUDY

PROJECT NAME

Payne House, Sag Harbor, NY

SYSTEM SPECIFICATIONS

Residential shallow bed drainfield near impaired water body

PRODUCTS USED

Infiltrator Quick4 Low Profile Chambers

INSTALLATION DATE

2017

CONTRACTOR

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ENGINEER

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TF Engineering, Sag Harbor, NY

Shallow bed Infiltrator chamber drainfield solves high groundwater and limited site challenges for New York homeowner

SUMMARY

Residential septic system and drainfield near an impaired body of water and aquifer. Because the site is subject to high groundwater levels, the system was designed to demonstrate the effectiveness of installing a shallow bed drainfield in these conditions.

CHALLENGES

The challenge was to install a septic system to provide the maximum amount of treatment prior to disposing the effluent where it can enter the groundwater aquifer and nearby water body. The shallow drainfield bed designed was a new approach to effluent disposal for this area. The engineer and installer worked closely with the jurisdiction during the approval process to explain the design benefits. The site also had limited access and installation needed to be completed with small equipment to provide minimal damage to existing landscaping.

SYSTEM DETAILS

The project site encompasses two acres but a large portion of the property is wooded and the client wanted to preserve as many trees as possible. Access was tight so the Infiltrator chambers enabled the team to complete the installation with a small excavator. Only a limited number of small shrubs were moved and those replanted in the same location after the installation was complete.

The septic system includes a 1,500-gallon primary treatment tank, a packed bed filter treatment unit, a pump basin with a dosing pump, and Infiltrator Quick 4 Low Profile Chambers for disposal and final polishing.

RESULT

The engineer was happy with the design. The disturbed areas were replanted the vegetation was restored to the original condition in three weeks.



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