



## CASE STUDY

### PROJECT NAME

Lodge at Tupper Lake, New York

### SYSTEM SPECIFICATIONS

Remote lakefront residential chamber system serving lodge and cottages

### PRODUCTS USED

Infiltrator Quick4 EQ36 Chambers in a 20'w X 50'l absorption bed

### INSTALLATION DATE

Fall 2015

### ENGINEER

Vincent Kavanagh, P.E.  
Tupper Lake, NY

## Infiltrator Quick4 Equalizer 36 Chambers Offer Ease of Delivery and Installation for Lakeside Lodge Gravelless Absorption Bed

### SUMMARY

A 150-acre property first developed in 1917, the lodge with its five "cottages" was being restored to its original condition. The outdated existing septic system was not sized to handle the proposed flow from the site and was required to be upgraded or replaced.

### CHALLENGES

The property is accessible only by boat or by all-terrain vehicles and is lakeside making delivery of materials to the site challenging. A stone and pipe absorption bed system was originally designed, however barging stone to the site was not an option because the contractor was not able to build a ramp to offload the stone.

Local environmental regulations allowed for gravelless soil absorption products so the engineer redesigned the system using Infiltrator Quick4 Equalizer 36 Chambers. In addition to ease of transport and delivery to the remote site, the open bottom Quick4 Equalizer36 Chambers offered increased soil infiltration and enhanced aeration and filtration in the native sandy soils.

### SYSTEM DETAILS

The system is designed for 990 gallons per day. A 20' wide by 50' long bed of Quick 4 Equalizer36 Chambers was specified and four observation ports were installed near the corners of the bed. The system also includes a new septic tank and a pump tank.

### RESULTS

Installation went very smoothly. It was the first time the engineer had specified Infiltrator Chambers and the first installation of chambers by the installing crew. Both commented on the ease of installation and that the manufacturer's instructions were easy to follow.



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