

## Hawthorne Lake Dam #22-302



**Client/Owner:** Hawthorne Park Club

**Project Location:** Sparta Township, Sussex County, NJ

On August 12, 2000, the municipalities of Sparta, Ogdensburg, Hopatcong, Byram, and Jefferson in Morris and Sussex Counties were hard hit by a high intensity storm that dumped 8 to 14 ½ inches of rainfall over the area in a 17 hour period. Based upon this data, this storm is universally recognized as a new storm of record and was well in excess of the standard 100 year 24 hour storm event for the area. Many dams in the area overtopped due to lack of spillway capacity and suffered minor to severe damage - Including Hawthorne Lake Dam. The “dam” was not on the NJDEP/DSS database, but as a result of the overtopping, NJDEP staff made a field determination that the dam was under their jurisdiction and as such full compliance with the NJDEP Dam Safety Standards was now required. NJDEP/DSS also required the Club to have the dam inspected and to submit a Hazard Assessment and Spillway Capacity Analysis.

Greenman-Pedersen, Inc. was retained by the Hawthorne Park Club to inspect the dam and to submit an inspection report to NJDEP. It appeared that the dam did not fit the minimum height for the dam to be within NJDEP jurisdiction, and as such we recommended that a detailed existing conditions survey be prepared. GPI provided the surveying and mapping services and met with NJDEP staff who confirmed that the dam is within their jurisdiction. GPI subsequently prepared a Hazard Assessment and Spillway Capacity Analysis which will be used to make recommendations to the Club for upgrading the dam to comply with current NJDEP Dam Safety standards. GPI has also performed multiple Regular Inspections and has also prepared a new Operation and Maintenance Manual for the dam.