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CC: Adm.
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JON S. CORZINE
Governor

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Natural and Historic Resources
Office of Engineering & Construction



AUG 15 2008

Town of Hackettstown
Attn: Honorable Michael B. Lavery
215 Stiger Street
Hackettstown, NJ 07840

Musconetcong Watershed Association
Attn: William Leavens
P.O Box 113
Asbury, NJ 08802

Re: Sieber Grove Dam, NJ File No. 24-97
Mount Olive Township, Morris County

Dear Owner/Applicant:

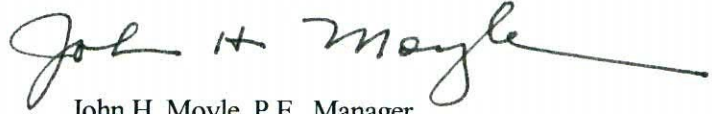
This is in reference to the Dam Removal and Restoration Plans submitted under the July 31, 2008 cover letter by Princeton Hydro for the above referenced dam.

Upon review of the Plans, the Bureau of Dam Safety and Flood Control (Bureau) has determined the following concerns must be addressed.

1. Hydraulic conditions of the proposed stream channel through the lake and breach area should be evaluated to ensure adequate erosion protection. Flow characteristics (flow rate, velocity, depth, top width, etc.) should be defined for base flow condition, bank full condition (please define flow frequency assigned to bank full condition) and appropriate storm events up to the 100 year. USGS gage data may be used to define these flow rates.
2. The stability of the proposed stream channel design relies on the assumption that the original stream channel substrate remains under the sediment layer and can be uncovered. A note on the sheet 2 of 5 calls for a layer of rounded riverstone if the original substrate is not uncovered or is found to not contain cobbles similar to the stream channel above or below the impoundment. A single layer of riverstone may not be sufficient erosion protection for the supercritical flow that can be expected in the proposed channel. The proposed stream channel (including those areas proposed to be filled) must be stable for anticipated flow conditions. This may be demonstrated by engineering design/analysis or by mimicking the existing stream channel substrate in all characteristics (rock type, size and depth). If it is proposed to mimic the existing stream channel, it will be necessary to define the characteristics of the existing stream channel. This can be done upon the start of construction, but the Bureau must be notified of the results.
3. Appropriate stream bank protection must be provided for the anticipated hydraulic conditions.
4. A note on Sheet 5 of 5 (Construction Sequence and Schedule) requires a check of flow velocity and depth with adjustment of riverstone and roughness boulders to achieve acceptable velocities and depths for the passage of fish. Please define the acceptable velocities and depths.

Please note the Bureau has forwarded a copy of the plans to NRCS for review. Please address any NRCS engineering concerns in addition to the above noted items prior to resubmitting the package to our office. Should you have any questions regarding this matter, please contact Sarah Hatala of this office at (609) 984-0859.

Sincerely,

A handwritten signature in black ink that reads "John H. Moyle". The signature is written in a cursive style with a long horizontal line extending to the right.

John H. Moyle, P.E., Manager
Bureau of Dam Safety & Flood Control

C: Lisa Barno, Bureau of Freshwater Fisheries
Pat Hamilton, Bureau of Freshwater Fisheries
Mary Paist-Goldman, Princeton Hydro LLC
Linda Peterson, NRCS
Mount Olive Township Engineer and Clerk
Warren County Engineer
Morris County Engineer

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