



**Hatch Mott
MacDonald**

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August 30, 2012

Mr. Michael C. Wynne, PE
Executive Director
P.O. Box 320
1000 Route 10
Whippany, New Jersey 07981

**RE: Hanover Sewerage Authority
Morris County, New Jersey
2012 Clean Watersheds Needs Survey**

Dear Mr. Wynne:

On behalf of the Authority, Hatch Mott MacDonald (HMM) has submitted the attached needs survey form and supporting documentation to the New Jersey Department of Environmental Protection (NJDEP) as part of the 2012 Clean Watersheds Needs Survey (CWNS). This information has been compiled for the Hanover Sewerage Authority's Wastewater Treatment Plant (WWTP) and its corresponding wastewater collection and conveyance system.

Under the CWNS program, the NJDEP collects the information submitted by respondents on their water quality related needs for the United States Environmental Protection Agency (USEPA), which publishes the survey results in a report to Congress. The CWNS report provides Congress and state legislatures with information to assist their budgeting efforts. As such, the survey and report can affect the allocation of Clean Water State Revolving Fund appropriations and are critical in helping local and state governments obtain financing for water quality programs.

The information presented in the survey form and the attached Preliminary Engineer's Estimate is based on anticipated new capital needs and is accurate and reasonable to the best of our knowledge. We have arranged the capital projects for the treatment plant and the sanitary sewer collection system (including interceptor sewers and pump stations) into the following needs categories:

- ◆ Secondary Treatment (including sludge handling/disposal)
- ◆ Sewer Replacement/Rehabilitation

The total estimated cost for the project needs is about \$39 million. These are total project costs in 2012 dollars and include construction, administration, engineering, inspection, and contingency items. We have prepared a Preliminary Engineer's Estimate and attached a copy of the NJEIT Fiscal 2013 Loan Application as supporting documentation for the project costs. The Preliminary Engineer's Estimate is conceptual or study level, appropriate for resource needs and long-range budgeting and planning. It corresponds to an Association for the Advancement of



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Cost Engineering (AACE) Class 4 or 5 estimate, based on very limited information and subsequently has a wide accuracy range. Cost curves, equipment factors, and experience with comparable construction projects were used in developing the cost estimates.

The identified improvements for secondary treatment include the design and installation of a new UV Disinfection system; rehabilitation of the existing primary and secondary clarifiers; the design and installation of solar panels; and modifications to the existing denitrification system. These improvements are based on a site inspection and our various discussions with you and the plant operating staff.

We trust that this information benefits the Township with its CWNS plans. Please contact me at (973) 912-2571 if you have any questions.

Very truly yours,

Hatch Mott MacDonald



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JJS:mi

Enclosure

cc: Peter Tyrrell, HSA