

HOPEWELL TOWNSHIP

# Stony Brook Regional Sewer Authority



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SBRSA Provides The Sewer Service for the Wastewater Pumped by the Princeton Farms Pumping Station

Wastewater is pumped through a 2 mile uphill pipeline that runs along the Pennington Rocky Hill (Cherry Valley Road) to the top of Aunt Molly Road where the pressure is released and the wastewater then flows through a pipe by gravity to the SBRSA Hopewell Wastewater Treatment Plant at 140 Aunt Molly Road

The SBRSA Hopewell Wastewater Treatment Plant also treats all of the wastewater that is produced by Hopewell Borough

The SBRSA Hopewell Wastewater Treatment Plant was built in the early 1980's using Federal Loan money



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The new NDPES wastewater discharge permit from the NJDEP that SBRSA received in 2018 requires SBRSA to

- \*remove phosphorus

- \*meet very stringent limits for chlorine oxidation byproducts

These two new permit requirements along with the 40 year old age of equipment at the SBRSA Hopewell Wastewater Treatment Plant are the driving forces for the Upgrade Project at the SBRSA Hopewell Wastewater Treatment Plant that SBRSA will be going out to bid this summer.



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This Hopewell plant upgrade project will include:

Conversion from chlorine/sodium bisulfite addition for disinfection to the use of ultraviolet light (UV) for disinfection

Addition of phosphorus precipitation equipment

Replacement/proper sizing of all pumps and connected piping plus improved design for pumping flows between tanks to allow for maintenance and repairs

Conversion to continuously backwashed filters from sand filters that are taken off line to back wash

Improved control of dissolved oxygen levels in the oxidation step of the process

Improved waste sludge handling process



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## What is SBRSA?

SBRSA stands for Stony Brook Regional Sewerage Authority and was formed in 1970 coincidentally with the passage of the Federal Clean Water Act

The emphasis during the 1970's was to shutdown small treatment plants and combine them into regional systems with economy of scale to achieve lower treatment costs and better, higher quality effluent

Federal loan money was available to build large regional sewerage treatment plants and the collection systems that these required.

SBRSA services Stony Brook Millstone Watershed portions of Princeton, South Brunswick, Plainsboro, and West Windsor at a 13.05 Million Gallon per Day (MGD) plant located at 290 River Road in Princeton, New Jersey



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SBRSA services Pennington Borough at a 0.455 MGD plant location at Pennington Rocky Hill Road in Hopewell Township

SBRSA services Hopewell Borough at a 0.300 MGD plant location at 140 Aunt Molly Road in Hopewell Township

Wastewater from the Princeton Farms pumping station is pumped to the SBRSA Hopewell Plant for treatment



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Hopewell Township is a member contract customer:

Limited service is available up to 0.070 MGD for flow from the Princeton Farms pumping station

Cost is twice the per gallon rate charged to member participants

Capital costs of upgrades for the SBRSA Hopewell Borough plant are shared based on annual flow capacity percentage between Hopewell Borough flow and flow from the Princeton Farms pumping station



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SBRSA has operated all three plants through all the major storms that have occurred during my 32 years on the Board and have not had an environmental spill during any of these events

There are round the clock plant operators and mechanics that are trained on the two upstream plants in event of equipment failure or malfunction that can be called in the event of an emergency

Common spare parts between all three plants are stocked at the main River Road plant allowing for rapid repairs when needed

Fines, if imposed for a permit violation at any of the three SBRSA plants or for any other reason, are spread across all of the rate paying customers



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Gale Deborah Downey - Hopewell Township appointed SBRSA Board member

Moved into Princeton Farms in September of 1976

Lives at 284 Wargo Road

Became involved in sewers in 1988 when a flyer was put in my mailbox saying "Don't let them flush our dollars down the toilet - Come to a meeting in the backyard of Ray Altieri"

At that backyard meeting the Princeton Farms Homeowners Association was formed and Ray Altieri was elected President and I was elected Vice President and Chairman of the Sewer Committee



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The Princeton Farms homeowners association supported Hopewell Township's plan to shut down the small treatment plant that the bankrupt builder has installed in 1968 and instead connect to the SBRSA Hopewell plant.

Construction of the 2 mile upstream pipeline and the pumping station at Pennington Rocky Hill Road was completed in 10/1990 and put into service

I was appointed at the Hopewell Township representative on the SBRSA Board in June of 1992 when the previous representative retired and moved to Florida

Have now served 32 years on the Board and currently am the Chairman of SBRSA



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If you have questions about sewer service to Princeton Farms, I am happy to answer any and all questions or contact some one in Hopewell Township or SBRSA that can answer your questions.

My contact information is:

Email: [gddowney@aol.com](mailto:gddowney@aol.com)

Phone: 609-466-3736

You are welcome to stop and visit me where I live on Wargo Road



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The need to complete a well planned repair program to the sewer collection system in both Princeton Farms and Hopewell Hunt to:

reduce the daily flow from the Princeton Farms pumping station and thus the annual sewer bill

reduce the percentage of the upgrade at the SBRSA Hopewell plant that residents gathered today will pay of the costs of the NJDEP required upgrade of the SBRSA Hopewell plant

History of repairs and upgrades that Hopewell Township has completed on the Princeton Farms Pumping Station and collection



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\$1 million dollars worth of repairs were completed starting in late 1990 that was bonded for in the mid 1990's and I believe that this bond has been paid off through the sewer bill

Inspection risers were installed at the connection between the homeowner lateral and the main line for every home in Princeton Farms



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The pump station was redesigned and rebuilt in the early 2010 time frame and has proven to be much more robust and less costly to operate

Three rounds of repairs to the collection system from 1992 to 2005 reduced flow to the point that it was livable from an SBRSA point of view but still high compared to dry weather flow

Hopewell Township has completed some additional inspections in recent years and solved the mystery of high wet weather flows from Hopewell Hunt and has designed a well thought out collection system repair plan which will be discussed tonight.



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Thank you

