



Photo by Brad d'Entremont

The West Pubnico Wastewater Treatment Facility



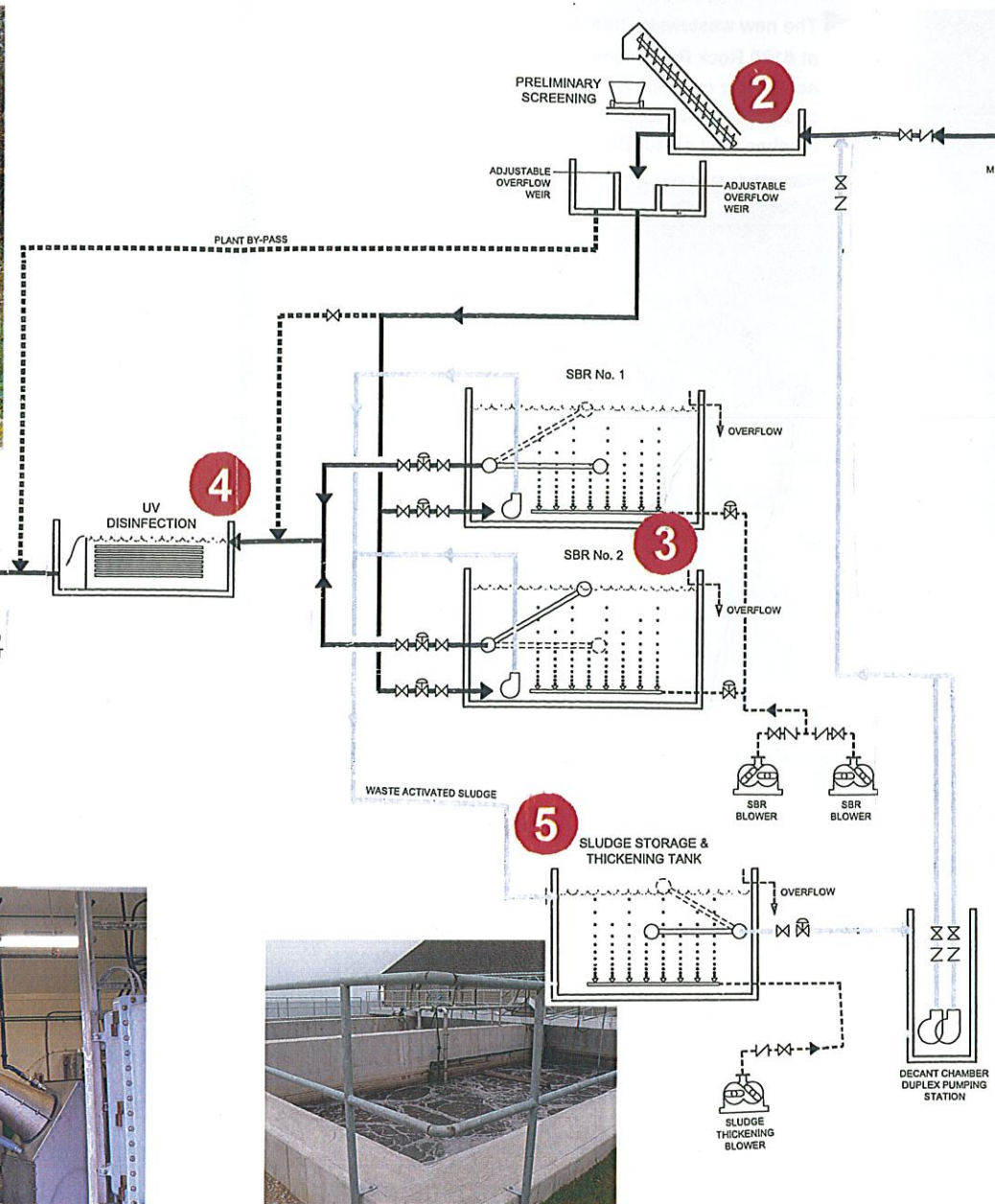
1 Pump Station 11 -

Pump station 11 located at the beginning of the Rock Road pumps the wastewater through the flow meter to the preliminary building for screening.



2 Preliminary Screening -

The wastewater is screened to remove the non-organic solids in the wastewater.



3 Sequencing Batch Reactors (SBR No.1 & SBR No.2) -

In the reactor basins, wastewater is aerated to promote the growth of the organisms which break down organic waste products. After a settling period, the liquid lying above the sludge or solids is drained off to the UV disinfection chamber for disinfection, and the sludge is pumped to the sludge storage and thickening tank.



4 UV Disinfection -

On average 90,000 imperial gallons per day of treated effluent is disinfected with ultraviolet light to kill any remaining pathogens. After treatment, the clarified water can be safely discharged into the environment.



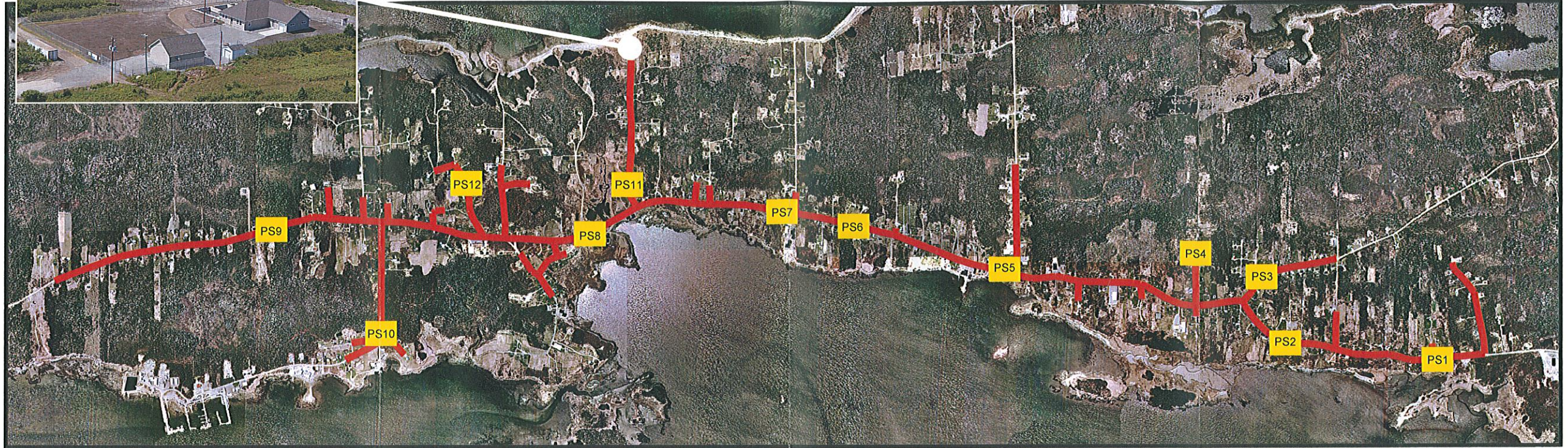
5 Sludge Storage & Thickening Tank -

The sludge that settles at the bottom of the SBR tanks is pumped into this tank for storage and thickening. This sludge can then be trucked away by a commercial sewerage hauler or can be mechanically dewatered.



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◀ The new wastewater treatment facility at #180 Rock Road, removes solids, aerates for organics removal, separates and disinfects wastewater before it reaches the Lobster Bay outfall.




Did You Know:

- The average Canadian contributes about 450 litres of wastewater (bath, laundry, toilet flushing) to the environment each day.
- The West Pubnico Wastewater Treatment Facility handles wastewater from approximately 1836 people, and can expand to handle wastewater from 2440.
- Wastewater from West Pubnico, Middle West Pubnico, and Lower West Pubnico is collected in a 14 km gravity sewer, which includes 12 pump stations throughout the system.
- The West Pubnico Wastewater Treatment Facility has been funded by Building Canada Fund, Municipal Rural Infrastructure Fund, ECO Trust, Green Municipal Funding, Federal Gas Tax Funding, and user's of the system.
- Over 90% of organics are removed from the wastewater during the treatment process.
- Wastewater is screened and aerated, ultraviolet light is used as a disinfectant. Treated effluent is then released into Lobster Bay.
- The new facility replaces the 30 year old lagoon system, which is no longer an accepted method of treatment or referenced in the Nova Scotia Guidelines.
- The facility was constructed to accommodate dewatering equipment which will, once installed, reduce the amount of sludge that will have to be hauled off site for disposal by removing most of the water from the sludge and saving transportation costs.
- Construction began on May 17, 2010 and the facility began treating wastewater on May 27, 2011.

**Experiencing sewer problems,
require a new connection,
or to disconnect a connection?**

Please contact the
Wastewater Operator,
Vaughn d'Entremont
at 648-4043
or
Property Inspection and
Public Works at 648-2623.

The treatment facility was designed by
Exp Services Inc.  exp.
The general contractors were Amber
Contracting Ltd.