

# Two Rivers Water Reclamation Authority

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<http://trwra.org>

Fair Haven  
Little Silver  
Monmouth Beach

Oceanport  
Shrewsbury  
West Long Branch

**TO:** The Mayors of Eatontown, Fair Haven, Little Silver, Monmouth Beach, Oceanport, Red Bank, Rumson, Sea Bright, Shrewsbury Borough, Shrewsbury Township, Tinton Falls, West Long Branch, Eatontown Sewerage Authority Chairman

**FROM:** Michael A. Gianforte, P.E., Executive Director



**DATE:** January 23, 2019

**SUBJECT:** Community Update – January 2019

In order to keep all towns served by Two Rivers Water Reclamation Authority informed about the activities of the Authority, we hereby provide this periodic update. This is a summary of reports and action taken at the Authority's recent public meetings.

## **1. Pleasure Bay Interceptor - Main Pump Station Problems**

The Authority's inspection activities have identified problems with the 2500 foot long sewer main (Interceptor) that crosses Pleasure Bay that feeds into the Main Pump Station. The 48" pipe has sags and shows signs of significant sulfuric acid corrosion. This sewer main is a potential single point of failure for which there is no back up. The consequence of failure would be a potential 700-million-gallon sewage release into the Shrewsbury River should the pipe completely fail before a bypass could be constructed. The same represents an unreasonable risk for the Authority that must be addressed.

The Authority has also evaluated the Main Pump Station, which does not meet current design standards for its existing flow and that sustained significant structural damage of its 2 foot thick 25 foot deep concrete wall during Superstorm Sandy.

The Authority's consultant, Mott McDonald, completed a conceptual design to address these issues concluding that tunneling a 6 foot diameter pipe across Pleasure Bay from Sommers Park in Oceanport to the location of the proposed relocated new Main Pump Station is the best alternative to address the joint problems of the Interceptor and damaged and insufficient Pump Station. The construction process will be facilitated by one intermediate, temporary, 35-foot diameter tunnel access hole on Highland Avenue in Monmouth Beach. That 6 foot diameter tunneled pipe would then have a 54 inch pipe laid inside to convey sewage, thereby replacing the failing original Interceptor from the 1960's.



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French and Parrello will perform soil borings along the proposed alignment for the replacement Inceptor including in the open waters of Pleasure Bay this February.

An RFP for final design services is expected to be distributed for receipt in April. Construction would begin after design, permitting and funding through a State low interest infrastructure loan.

The total cost of this major project is estimated to be 40 to 60 million dollars. Assuming current flow percentages remain the same, this will result in a cost per town, over the 30-year life of the loan as shown below. This should be compared to the current portion of debt service listed below by town which will be paid off in 2020.

<b>Town</b>	<b>Exist Debt ending in 2020</b>	<b>New Inceptor/MPS Annual Debt</b>
Red Bank	436,000	280,000
Eatontown	598,000	370,000
Rumson	500,000	280,000
Sea Bright	142,000	91,000
Shrews. Tsp	70,000	47,000
Tinton Falls	345,000	224,000
Members	3.4 mil	2.2 mil

The Authority would be pleased to discuss the impact and timing of this project with any member or customer town. Please contact me to discuss the project.

## **2. Upgrade to Pump Station 12 and Interceptor Rehabilitation**

The Authority has two major collection system projects bid ready that are scheduled to be funded through the environmental infrastructure trust. The anticipated project costs are \$750,000 and \$2.2 million respectively. Below is the annual impact of the projects over the 20-year life of the loan.

<b>Town</b>	<b>Annual Debt over 20 years</b>
Red Bank	22,000
Eatontown	54,000
Rumson	4,000
Sea Bright	4,000
Shrews. Tsp	5,000
Tinton Falls	36,000
Members	165,000

## **3. Upcoming Plant projects**

### **a. Filter Building Rehabilitation Project**

The operational parts of the filter building are reaching the end of their useful life after more than 25 years in service. The necessary work includes replacement of filter media, porous plates and roof, rehabilitation of the backwash bridges



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and rails, removal of unused duct work, recoating interior surfaces against corrosion. This is a 2-million-dollar project.

The Authority is testing to determine if the filter building can be mothballed instead of being rehabilitated because the upgraded treatment plant is operating with an effluent quality far better than the required standards prior to the filters.

- b. Replacement of 20-year-old Plant SCADA PLCs and fiber optic repairs.
- c. Replacement of 20-year-old Variable Frequency Drive's.



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