

Sewage Treatment Plant (STP) Design Modifications Update

*Brookhaven National Laboratory
Community Advisory Council*

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Background - Refresher

- **December 2010:** BNL received approval of Quantification & Removal Study Report from NYSDEC
 - Modification of SPDES Permit will be required
 - Suitability of soils for discharge will need to be confirmed
 - Submittal of engineering report, plans, and specifications to NYSDEC and SCDHS in accordance with schedule
- **January 2011:** BNL initiated NEPA Environmental Assessment and Procurement of Architect/Engineering (A/E) Services for Design/Construction
- **April 2011:** BNL presented the NEPA Environmental Assessment to CAC
- **June 2011:** The DOE issued a Finding of No Significant Impact (FONSI)
- **July 2011:** P.W. Grosser Consulting and Gannett Fleming Engineers, PC were awarded the contract to prepare Title I and II Design Packages
- **July 2011:** Soil investigations completed
 - The hydraulic conditions of the former WWI recharge area are suitable for use of as future groundwater discharge area of the STP
- **November 2011:** Title I Preliminary Design Report submitted to regulators

STP Design Modifications Update

Approved Schedule:

Activity	Start	Finish	
NYSDEC Approval of Q&R Study		30-Dec-10	Design Phase  More details on next slides
Complete NEPA EA	03-Jan-11	30-Jun-11	
Procure A/E Services	03-Jan-11	30-Jun-11	
Complete Soil Studies	01-Apr-11	30-Sep-11	
Preliminary Design	06-Jun-11	30-Nov-11	
Submit Preliminary for Reg. Review	01-Dec-11	06-Jan-12	
Regulator Comment Resolution	09-Jan-12	03-Feb-12	
Final Design and NYSDEC Approval	06-Feb-12	13-Jul-12	
Procurement	16-Jul-12	19-Oct-12	Construction Phase
Construction Bid	22-Oct-12	30-Nov-12	
Award Construction Contract	03-Dec-12	14-Dec-12	
HASP/Notice to Proceed	17-Dec-12	01-Feb-13	
Mobilization	04-Feb-13	28-Feb-13	
Construction	01-Mar-13	31-Jul-14	
SPDES Permit Modification	01-Mar-13	28-Feb-14	Project Closeout
Project Completion	01-Aug-14	30-Sep-14	

COMPLETE

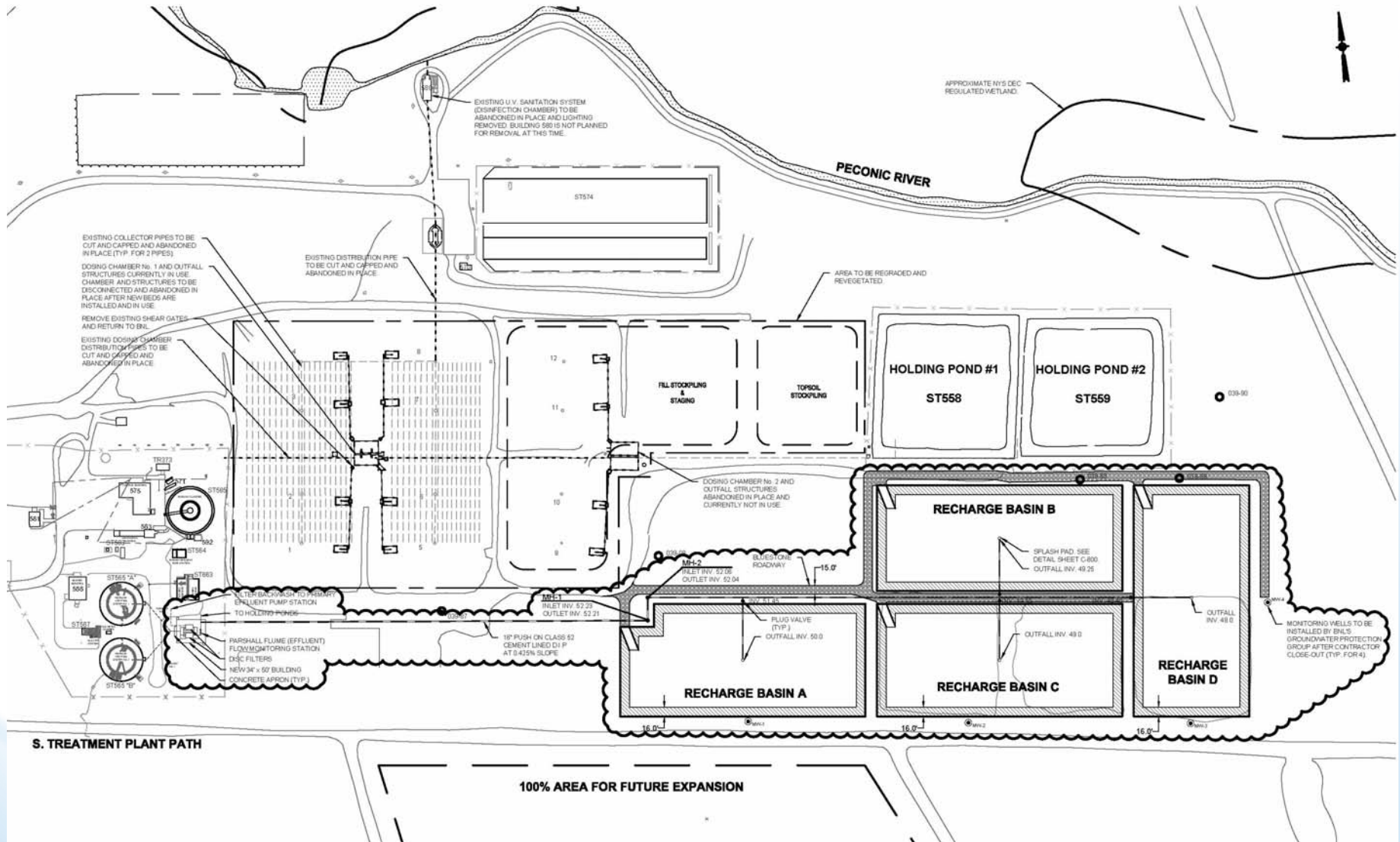
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Recent Actions:

- **March 2012** – BNL submitted responses to comments received by NYSDEC and SCDHS on the Title I Design Report
 - Ensure that tertiary filters are designed to handle the full SPDES Permit Flow (2.3 MGD) with one unit out of service
 - Clarification on amount and location of groundwater monitoring wells
 - Confirming that appropriate permitting (Scenic River and Wetlands) will be completed prior to start of construction and wetlands are clearly delineated in design plans

- **March/April 2012** - SPDES Permit Modification process initiated
 - Includes description of new treatment process and will recognize discharge to groundwater

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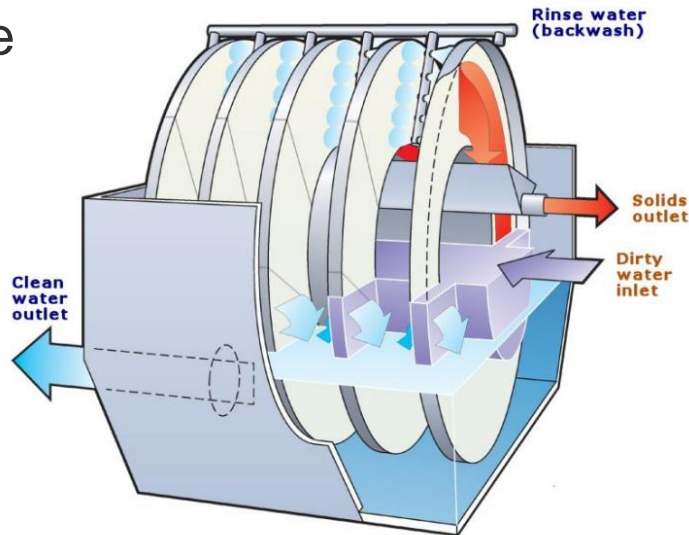
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Tertiary Filtration System

Disc Cloth Filters

Each filter unit will be approx. 13' long, 8' wide, and 8.5' high



Installed in 34' x 50' pre-engineered building

What's Next?

- Complete SPDES Permit Modification (April 2012)
- Continue to work on Final Design (July 2012)
- Initiate Construction Procurement Process
- Begin Field Preparation Activities (Summer 2012)
 - Clearing, grading for filter building and recharge basins

QUESTIONS?