

City of Norwalk
 WATER POLLUTION CONTROL AUTHORITY
 FY 2009-10 Capital Budget Summary

CAPITAL BUDGET - GO REQUEST

Project	Approved FY 2008-09	Projected FY 2009-10	Projected FY 2010-11	Projected FY 2011-12	Projected FY 2012-13	Projected FY 2013-14
Pump Station Upgrade/Replacement	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000
Collection System Rehabilitation	\$ 1,000,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 1,000,000
SCADA/I&C Plant & Pump Stations	\$ 150,000	\$ 150,000	\$ 150,000			
Fort Point Pump Station Replacement					\$ 1,000,000	\$ 3,000,000
	\$ 1,400,000	\$ 900,000	\$ 900,000	\$ 750,000	\$ 1,750,000	\$ 4,250,000

CAPITAL BUDGET - CLEAN WATER FUND

Project	Approved FY 2008-09	Projected FY 2009-10	Projected FY 2010-11	Projected FY 2011-12	Projected FY 2012-13	Projected FY 2013-14
CSO/Wet Weather Treatment System Facility Upgrade - Phase 1	\$ 45,000,000					
Low Level Nitrogen Removal	\$ 5,500,000	\$ 75,570,000				
CSO/Wet Weather Treatment System Facility Upgrade - Phase 2	\$ 390,000		\$ 3,300,000			
Alternative Disinfection	\$ 845,000		\$ 7,215,000			
	\$ 51,735,000	\$ 75,570,000	\$ 10,515,000	\$ -	\$ -	\$ -

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority				PROJECT TITLE: Pump Station Upgrade/Replacement			
PROJECT LIFE: 30 years		SCHEDULED START: 2005		SCHEDULED COMPLETION: Ongoing			
RANKING: 1 – GO Funding		<input type="checkbox"/> NEW CONSTRUCTION/EQUIPMENT		<input checked="" type="checkbox"/> REPLACEMENT/REFURBISHMENT			
DESCRIPTION: Pump Station Upgrade/Replacement				JUSTIFICATION: This is an on-going investment to upgrade and replace the WPCA's 22 pump stations. The WPCA's Asset Management Plan has identified a program to rehabilitate all pump stations over a 20-year period. These various projects are needed to ensure that sanitary sewage can be conveyed to the wastewater treatment plant (WWTP) without interruption of service.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
Engineering/Design							
Site Costs & Acquisition							
Construction	1,250	250	250	250	250	250	2,500
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES	1,250	250	250	250	250	250	2,500
REVENUE (Specify)							
NET COST	1,250	250	250	250	250	250	2,500

CAPITAL BUDGET

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority			PROJECT TITLE: Collection System Rehabilitation				
PROJECT LIFE: 50 years		SCHEDULED START: 2005			SCHEDULED COMPLETION: Ongoing		
RANKING: 2 – GO Funding		<input type="checkbox"/> NEW CONSTRUCTION/EQUIPMENT			<input checked="" type="checkbox"/> REPLACEMENT/REFURBISHMENT		
DESCRIPTION: Collection System Rehabilitation				JUSTIFICATION: This on-going series of projects are needed to rehabilitate the City's approximately 170 miles of sanitary sewer that are in many cases over 100 years old. The WPCA's contract operator has completed closed-circuit television inspection of the sanitary sewer system and has identified \$20-million in repairs needed to ensure that sewage can be conveyed to the wastewater treatment plant (WWTP) without interruption of service.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
Engineering/Design							
Site Costs & Acquisition							
Construction	3,500	500	500	500	500	500	6,000
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES	3,500	500	500	500	500	500	6,000
REVENUE (Specify)							
NET COST	3,500	500	500	500	500	500	6,000

CAPITAL BUDGET

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority			PROJECT TITLE: SCADA and I&C Systems				
PROJECT LIFE: 10 years		SCHEDULED START: 2005			SCHEDULED COMPLETION: 2011		
RANKING: 3 – GO Funding		<input type="checkbox"/> NEW CONSTRUCTION/EQUIPMENT			<input checked="" type="checkbox"/> REPLACEMENT/REFURBISHMENT		
DESCRIPTION: Supervisory Control and Data Acquisition (SCADA) and Instrumentation & Control (I&C) Systems				JUSTIFICATION: SCADA and I&C are needed to improve operations efficiency and effectiveness. Currently pump stations are monitored remotely with an aged, unreliable system that provides little information on how to respond to an emergency. The wastewater treatment plant (WWTP) has a limited SCADA and I&C system that is inconsistent with a utility of this complexity and size. This project is an on-going investment in technology to upgrade the information technology systems of the WWTP and pump stations.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2012-13	TOTAL
Engineering/Design							
Site Costs & Acquisition							
Construction	600	150	150				900
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES	600	150	150				900
REVENUE (Specify)							
NET COST	600	150	150				900

CAPITAL BUDGET

**2009-2010
CITY OF NORWALK**

DEPARTMENT Water Pollution Control Authority

PROJECT TITLE SCADA/I&C WWTP & Pump Stations

1. Was this project included as part of last year's five year capital plan?

Yes X

No

If yes, please indicate amount requested and approved.
If not, why is the project now included?

Request \$600,000

Approved \$600,000

2. How was your cost estimate derived?

Based on OMI proposals.

3. Will this project have an impact on the operating budget of this department or another department?

Yes

No X

If yes, please estimate the following:

A. Increased Revenue

B. Decreased Operating Expenses

C. Additional Salary Costs

D. Additional operating expenses

No. of new positions _____

Net effect on Operating Budget

4. Comment on the demand/need for this project.

SCADA and I&C are needed to improve operations efficiency and effectiveness and have been identified by the contract operator as needed to operate the WWTP and pump stations.

5. What are the implications if the project is deferred, or not funded.

Currently pump stations are monitored remotely with an aged, unreliable system that provides little information on how to respond to an emergency. The WWTP has a limited SCADA and I&C system that is inconsistent with a utility of this complexity and size. Further delay of investment will require larger capital contributions in later years.

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority				PROJECT TITLE: Fort Point Pump Station Replacement			
PROJECT LIFE: 10 years		SCHEDULED START: 2012		SCHEDULED COMPLETION: 2014			
RANKING: 4 – GO Funding		<input type="checkbox"/> NEW CONSTRUCTION/EQUIPMENT		<input checked="" type="checkbox"/> REPLACEMENT/REFURBISHMENT			
DESCRIPTION: Replacement of Fort Point Pump Station				JUSTIFICATION: Replace 10-MGD Fort Point Pump Station built in 1929 and most recently rehabilitated over 20+ years ago.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
Engineering/Design					1,000		1,000
Site Costs & Acquisition							
Construction						3,000	3,000
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES							4,000
REVENUE (Specify)							
NET COST					1,000	3,000	4,000

CAPITAL BUDGET

**2009-2010
CITY OF NORWALK**

DEPARTMENT Water Pollution Control Authority

PROJECT TITLE Fort Point Pump Station

1. Was this project included as part of last year's five year capital plan? Yes__ No X

If yes, please indicate amount requested and approved. Request _____ Approved _____
If not, why is the project now included? It is scheduled in out years based on debt service projections/cash flow needs.

3. How was your cost estimate derived?

Order of magnitude based on pump station size and recent bids.

3. Will this project have an impact on the operating budget of this department or another department? Yes ____ No X

If yes, please estimate the following:

- A. Increased Revenue _____
- B. Decreased Operating Expenses _____
- C. Additional Salary Costs _____
- D. Additional operating expenses _____
- No. of new positions _____

Net effect on Operating Budget _____

4. Comment on the demand/need for this project.

The 1929 era pump station is the largest in the city and has not be rehabilitated in 2-+ years.

6. What are the implications if the project is deferred, or not funded.

Failure of this system will have major water quality impacts as sewage will not be conveyed from southeastern Norwalk to the WWTP.

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority			PROJECT TITLE: Low Level Nitrogen Removal				
PROJECT LIFE: 30 years		SCHEDULED START: 2006			SCHEDULED COMPLETION: 2011		
RANKING: 1 – Clean Water Fund		<input checked="" type="checkbox"/> NEW CONSTRUCTION/EQUIPMENT			<input type="checkbox"/> REPLACEMENT/REFURBISHMENT		
DESCRIPTION: Low Level Nitrogen Removal				JUSTIFICATION: Evaluate and modify the existing biological nutrient removal (BNR) system to increase total nitrogen removal to meet the stringent effluent limits recently imposed on the wastewater treatment plant (WWTP) through the proposed re-issuance of the DEP Nitrogen General Permit.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
Engineering/Design	1,300		15,114				16,414
Site Costs & Acquisition							
Construction	4,400		60,456				64,856
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES	5700		75,570				81,270
REVENUE (Nitrogen Credits)	Nitrogen Credits FY 13-14, 14-15, 15-16 total ~\$5MM						
Clean Water Funds Grant/Loans	TBD		TBD				TBD
NET COST	TBD		TBD				TBD

CAPITAL BUDGET

**2009-2010
CITY OF NORWALK**

DEPARTMENT Water Pollution Control Authority

PROJECT TITLE Low Level Nitrogen Removal

1. Was this project included as part of last year's five year capital plan?

Yes X

No ___

If yes, please indicate amount requested and approved. Request \$1,300,000
If not, why is the project now included?

Approved \$1,300,000

2. How was your cost estimate derived?

Based on engineer's estimate.

3. Will this project have an impact on the operating budget of this department or another department?

Yes ___

No X

If yes, please estimate the following:

A. Increased Revenue _____

B. Decreased Operating Expenses _____

C. Additional Salary Costs _____

D. Additional operating expenses _____

No. of new positions _____

Net effect on Operating Budget _____

4. Comment on the demand/need for this project.

The project is needed in order to meet more stringent nitrogen discharge limits set by the State DEP. If the do nothing approach is taken the DEP will likely issue a consent order and require modifications.

5. What are the implications if the project is deferred, or not funded.

If the project is not funded, the WPCA will be required to purchase nitrogen credits instead of selling them. In addition, the WWTP will not contribute to the total nitrogen reduction goals for Long Island Sound.

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority			PROJECT TITLE: CSO/Wet Weather Treatment System Facility Upgrade – Phase 2				
PROJECT LIFE: 30 years		SCHEDULED START: 2008			SCHEDULED COMPLETION: 2012		
RANKING: 2 – Clean Water Fund		<input type="checkbox"/> NEW CONSTRUCTION/EQUIPMENT			<input checked="" type="checkbox"/> REPLACEMENT/REFURBISHMENT		
DESCRIPTION: Siphon Chamber Rehabilitation				JUSTIFICATION: Required to address long-term wastewater treatment plant (WWTP) water quality issues. Project will increase treatment of storm flows that are currently being discharged into the Norwalk River with minimal treatment. This project has been approved by the CT DEP.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
Engineering/Design							
Site Costs & Acquisition							
Construction	390			3,330			3,720
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES	390						3,720
REVENUE (Specify)							
Clean Water Funds Grant/Loans	TBD			TBD			TBD
NET COST	TBD			TBD			TBD

CAPITAL BUDGET

**2009-2010
CITY OF NORWALK**

DEPARTMENT: Water Pollution Control Authority		PROJECT TITLE: Alternative Disinfection					
PROJECT LIFE: 30 years		SCHEDULED START: 2009			SCHEDULED COMPLETION: 2012		
RANKING: 3 – Clean Water Fund		<u>X</u> NEW CONSTRUCTION/EQUIPMENT			__ REPLACEMENT/REFURBISHMENT		
DESCRIPTION: Alternative Disinfection				JUSTIFICATION: Evaluate and modify the existing disinfection system to improve wastewater treatment plant (WWTP) final effluent. The DEP is will impose stringent discharge permit limits for chlorine in the next 5-year NPDES permit. Permit will require no chlorine residual be discharged from the WWTP to the Norwalk River.			
EXPENDITURE SCHEDULE (000's)	PRIOR YEARS	2009-10	2010-11	2011-12	2012-13	2012-13	TOTAL
Engineering/Design	100						100
Site Costs & Acquisition							
Construction	745			7,215			7,960
Equipment/Furnishings							
Other/Contingency							
TOTAL EXPENDITURES	845			7,215			8,060
REVENUE (Specify)							
Clean Water Funds Grant/Loans	TBD			TBD			TBD
NET COST	TBD			TBD			TBD

CAPITAL BUDGET

