

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Public Art

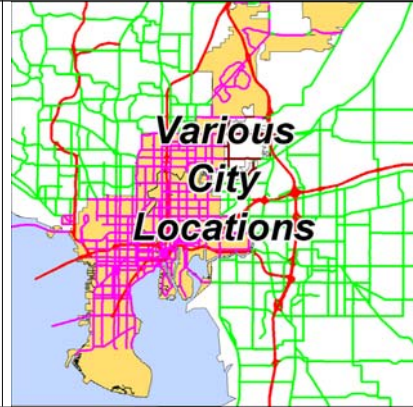
**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the contribution to public art per Ordinance 8860-A for eligible projects funded with wastewater funds.



**INDEX CODE:** SS0142BCB

**PROJECT ID:** SS-06-037

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$54,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

The public art committee recommends to the mayor the amount to be allocated for selection, commissioning, acquisition and installation of individual works of art to be incorporated as a part of the municipal construction project for which the funds were appropriated.

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Contracted Line Replacement

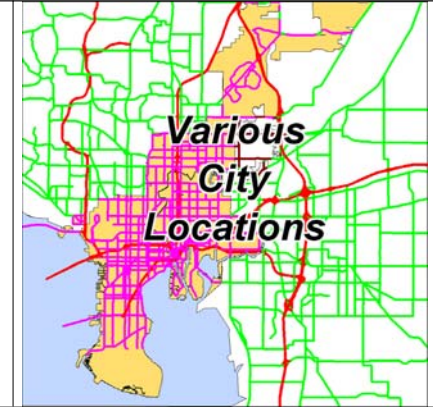
**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement and / or relocation of sanitary sewer facilities found to be in conflict with roadway widening and stormwater improvement projects initiated by Hillsborough County and the Florida Department of Transportation (FDOT). These improvements also allow the department to coordinate the replacement of aging pipelines located within the limits of the required project. This account will also be used for projects initiated by city departments during the fiscal year.



**INDEX CODE:** SS0342BAQ

**PROJECT ID:** SS-06-097

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$600,000	\$720,000	\$700,000	\$700,000	\$700,000	\$700,000	\$4,120,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

Gravity and pressurized sewer lines will be replaced in conjunction with stormwater projects and public works department's joint project agreements. Florida Department of Transportation's continued interstate improvements may require the City of Tampa's participation.

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Gravity Line Replacement

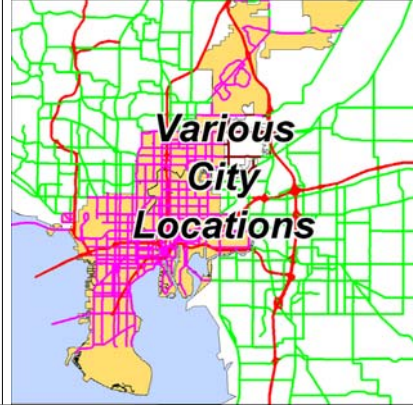
**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of structurally deficient gravity line sections and construction of line extensions into unsewered locations. There are two types of minor construction performed by city forces. The first type is to replace collapsed or structurally deficient sewer lines. The second type, upon the request of citizens, constructs sewer line extensions into areas that currently do not have sewer systems. In both types, the sewer lines may consist of gravity systems or pressurized force mains.



**INDEX CODE:** SS0342BBL

**PROJECT ID:** SS-06-036

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$418,000	\$418,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,836,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

**LOCATIONS UNDER CONSIDERATION INCLUDE:**

- Alley East of Dakota Avenue: Watrous Street to Morrison Avenue
- Alley Northwest of Bayshore Boulevard: Oregon Avenue to Watrous Avenue
- Alley East of Dakota Avenue: Morrison Avenue to Alley North of Morrison Avenue

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Standby Power Facilities

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the installation of a generator for at least one wastewater pump station located near the Hillsborough River. The new generator will provide on-site power generation that will allow the pump stations to remain in operation during a power outage. The project will include the installation of a generator, fuel tank, automatic transfer switch and associated controls.



**INDEX CODE:** SS0342BHZ

**PROJECT ID:** SS-07-021

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$265,000						\$265,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

**LOCATIONS UNDER CONSIDERATION INCLUDE:**

- Hanna Pump Station - 1502 West Hanna Avenue
- Trout Pump Station - 6962 Trout Street

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Large Pump Station Flow Meters Replacement

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for replacement of the magnetic flow meters at the 13th Street Pump Station and the San Carlos Pump Station. The flow meters have reached the end of their useful life and are no longer cost effective to maintain. These flow meters are connected to the supervisory control and data acquisition system which records and monitors the operation of the station from the treatment plant. Accurate data on pump station flow rates is essential for the operation of the system. These two pump stations are critical wastewater facilities.



**INDEX CODE:** SS0342BJA

**PROJECT ID:** SS-07-030

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$195,000						\$195,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

**LOCATIONS UNDER CONSIDERATION INCLUDE:**

13th Street Pump Station: 7903 North 12th Street  
San Carlos Pump Station: 4406 San Carlos Avenue

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Howard F. Curren Frequency Drive Replacement

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of seven variable frequency drives and related controls necessary to operate the nitrification pumps at the diffused air reactor facility. The variable frequency drives and control systems are no longer reliable. Replacement of this equipment will increase system reliability and reduce overall operation and maintenance costs. The new drives will be standardized to match other drives used throughout the treatment plant. Standardization of equipment also reduces operation and maintenance costs by minimizing the need to store multiple spare parts.



**INDEX CODE:** SS0442BBB

**PROJECT ID:** SS-07-023

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$350,000						\$350,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Howard F. Curren AWTP Roofing

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for roof repairs / replacements at various facilities throughout the advanced wastewater treatment plant (AWTP). These roofs protect vital equipment that is necessary for the safe and reliable operation of the treatment plant. Failure of this equipment will result in wastewater overflows, permit violations, costly repairs or injuries.



**INDEX CODE:** SS0442BGL

**PROJECT ID:** SS-07-020

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$320,000	\$320,000	\$330,000	\$350,000	\$350,000	\$350,000	\$2,020,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Plant-Wide Protective Coatings

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the application of protective coatings on piping and equipment. The environment at the treatment plant is highly corrosive. Piping and equipment constructed of metallic materials must be properly protected to prevent corrosion that would lead to premature failure. Unprotected piping and equipment will rapidly corrode and fail resulting in costly repairs, permit violations or injuries.



**INDEX CODE:** SS0442BGW

**PROJECT ID:** SS-06-027

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$320,000	\$320,000	\$330,000	\$350,000	\$350,000	\$350,000	\$2,020,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Upgrade / Replacement of Chlorinators

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of three chlorinators and the relocation of two sulfanators. The project also includes replacing piping and valves located in the chlorine and sulphur rooms. These chlorinators have reached the end of their useful lives and are not cost effective to rebuild. The piping and valves are deteriorated and contain excessive build-up. The replacement of the chlorinators and piping will ensure system reliability and reduce overall maintenance costs.



**INDEX CODE:** SS0442BJG

**PROJECT ID:** SS-07-010

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$505,000						\$505,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Howard F. Curren Heat Drying Equipment Painting

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the application of protective coatings on piping and equipment in the sludge heat drying facility at the Howard F. Curren Advanced Wastewater Treatment Plant. The coatings are failing and much of the equipment is beginning to corrode. The project will include sand blasting the corroded areas, surface preparation, protecting equipment within the building and application of a new coating.



**INDEX CODE:** SS0442BKM

**PROJECT ID:** SS-07-014

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$800,000						\$800,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Howard F. Curren Heat Drying Pugmill Train Replacement

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of the two pugmill trains located at the heat drying facility. The trains are worn and have reached the end of their useful lives. The project will include patching the troughs to prevent leakage and replacing the rotating equipment. All rotating equipment that comes into contact with the sludge will be replaced with corrosion resistant materials.



**INDEX CODE:** SS0442BKN

**PROJECT ID:** SS-07-019

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$640,000						\$640,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Digester Rehabilitation

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for rehabilitation of an anaerobic digester. The project includes internal cleaning, disposal of debris, replacement of corroded gas piping and supports, cover repairs, and the installation of protective coatings. The rehabilitation of the digester will ensure reliable sludge treatment and gas production needed to fuel the city's electrical co-generation facility.



**INDEX CODE:** SS0442BKP

**PROJECT ID:** SS-07-029

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000	\$530,000	\$2,650,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Cured-in-Place Pipe Rehabilitation

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the rehabilitation of failing gravity lines by no-dig methods on an as-needed and emergency basis. With no design engineering lead-time, the department can respond to problem areas quickly. The rehabilitation method requires no excavation and will extend the useful life of the sanitary sewer pipeline beyond 50 years. Since no excavation is required, pipeline repairs can be performed quickly, minimizing impacts to traffic and the need to make costly roadway repairs.



**INDEX CODE:** **PROJECT ID:** SS-07-002

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$880,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$5,680,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

The 1,750 miles of wastewater piping throughout the service area are continually monitored and are selected for rehabilitation as conditions dictate.

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Construction Gravity Lines

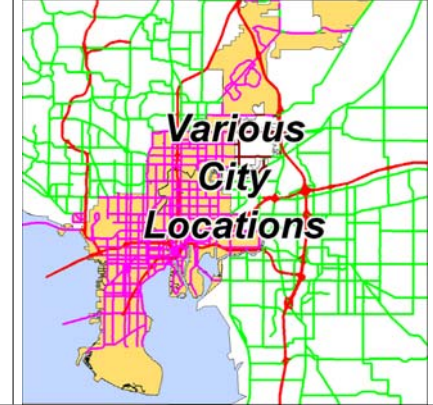
**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
Various - See Below

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the installation of gravity sewers to extend wastewater service to homes that currently use septic tank / drain field systems. The installation of these pipelines increases our customer base and expands the wastewater system. The project also provides for the replacement of structurally deficient gravity sewers and force mains.



**INDEX CODE:** **PROJECT ID:** SS-07-001

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>	\$700,000	\$10,500,000	\$12,500,000	\$12,500,000	\$12,500,000	\$12,500,000	\$48,700,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

**LOCATIONS UNDER CONSIDERATION INCLUDE:**

- Alley East of Willow Avenue: Bayshore Boulevard to Swann Avenue
- 122nd Avenue: 27th Street to dead-end
- Alley North of Lindsey Avenue: 24th Street to 26th Street
- Alley East of Dakota Avenue: Morrison Avenue to alley
- Alley East of Dakota Avenue: Watrous Avenue to Morrison Avenue
- 122nd Avenue: 27th Street West to dead end

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Sludge Heat Drying Mechanical Improvements

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of at least two belt presses. The presses are unreliable and require constant maintenance. Rollers have delaminated and several other components are severely corroded. The project will include the installation of new rollers, new tracking mechanisms, new fabric belts, new bearings, and stainless steel components. The bearings will be sealed corrosion resistant type bearings. Corroded steel components will be replaced with 316 stainless steel or other corrosion resistant materials. The rehabilitation will reduce maintenance cost and ensure system reliability.



**INDEX CODE:** PROJECT ID: SS-07-041

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$500,000					\$500,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Vehicle Fuel Pumps and Fuel Tanks Replacement

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the installation of new fuel storage tanks and fuel pumps. The tanks are severely corroded at pipe penetrations and are at risk of leaking. The project also provides for the replacement of the fuel pumps. These fuel pumps have reached the end of their useful lives and are becoming less reliable. The new equipment will provide a reliable fueling station which is necessary to fuel trucks and equipment needed to maintain wastewater facilities.



**INDEX CODE:** PROJECT ID: SS-07-027

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$400,000					\$400,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Himes Pump Station Rehabilitation

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
4802 North Himes Avenue

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the installation of new submersible pumping equipment, top slab, valve vault, access covers, discharge piping and valves. The pumps have reached the end of their useful lives and are no longer cost effective to maintain. The project also includes modifying the perimeter wall to improve station access. The influent sewer pipe will be rehabilitated to improve pipe capacity and to prevent line blockages.



**INDEX CODE:** \_\_\_\_\_ **PROJECT ID:** SS-07-035

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$370,000					\$370,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Heat Drying Recycle Bins Rehabilitation / Replacement

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of the two heat drying recycle bins. The bins are worn and have reached the end of their useful lives. The project will include installation of new troughs, framing and related structural members. The troughs will have protective linings which will prevent premature erosion and extend the lives of the troughs.



**INDEX CODE:** \_\_\_\_\_ **PROJECT ID:** SS-07-003

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$200,000					\$200,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Variable Frequency Drives and Electrical Upgrades

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the replacement of variable frequency drives at various locations around the treatment plant. The drives have reached the end of their useful lives and replacement parts are difficult to find. The new equipment will reduce maintenance costs and improve system reliability.



**INDEX CODE:** **PROJECT ID:** SS-07-042

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$150,000					\$150,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							

## FY07-12 CAPITAL IMPROVEMENT PROJECT

**PROJECT TITLE:**  
Howard F. Curren Plant Improvements

**RESPONSIBLE DEPARTMENT:**  
Wastewater

**LOCATION:**  
2700 Maritime Boulevard

**FUNDING SOURCE:**  
Wastewater Fund

**PROJECT DESCRIPTION:**

This project provides for the inspection of the piping for sludge digestors #1 through #5 to identify pipes that need replacement starting in Fiscal Year 2008. The project also provides for the construction of a wet sludge containment area and for the replacement of the plant irrigation system. There are also provisions for the additional design, testing, and inspection services during construction and change orders required to support the repair and replacement program. In FY08, the city plans to replace the HVAC Controllers that are difficult to operate and are not reliable. The new system will also be more efficient and improve our ability to monitor and control temperatures.



**INDEX CODE:** **PROJECT ID:** SS-07-040

	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>TOTAL</u>
<b>FUNDING:</b>		\$60,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$40,060,000

LAND ACQUISITION							
DESIGN							
BID							
AWARD							
CONSTRUCTION							