



# CIP & BOND PROJECTS

## STATUS REPORT OCTOBER 15, 2008

### Main Pump Station Generator

- Peterson Power Systems, Inc., (supplier) reports that the manufacture and delivery of the new generator is on schedule for mid October 2008.
- Staff completed construction of the generator’s concrete pad with the installation of conduits needed to connect the generator to the Main Pump Station building.
- Installation of the station’s new electrical main panel and breakers are underway. During facility testing it was found that the existing panel/breaker assembly could not be shut off. The advanced age of the equipment and lack of replacement parts thwarted staff attempts to repair the existing equipment. The new equipment improves operating staff’s safety and includes the necessary transfer switches for the new emergency generator.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$225,000	\$6,637	3%	\$218,363

### Main Pump Station Booster Pump

The booster pump arrived on time. Its installation is awaiting the completion of the electrical panel/breakers as it will be installed in place of the old electrical/breakers assembly. The booster pump is designed to provide water to the Crystal Springs Apartment Complex, served by the District, in the event the 3-mile main transmission pipe is damaged or has a scheduled repair.



Booster pump awaiting installation.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$0	0%	\$50,000



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### Alternate Water Source Acquisition Project

One possible new water source is the Devil's Slide Tunnel being constructed by Caltrans. Tunnel construction is in progress from the south towards the District and is now within the District's sphere of influence. However, it has not yet progressed out of the granite rock formation and as a result, the current water flow produced by the tunnel is much too low for practical use. Water flows are expected to improve within the next two to three months as the work progresses out of the Granite. Once there, staff will be able to investigate the water's quality.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$85,000	\$0	0%	\$85,000

### 21" Transmission Main – Jump Nodule

More than a mile of the District's essential transmission main is located directly above the San Andreas Fault in the San Francisco Public Utilities Commission watershed area along the west side of Skyline Blvd. south of San Bruno Avenue. Staff developed a "jump nodule" to connect to the transmission main that will allow staff to quickly attach temporary flexible piping above ground to "jump" sections of the transmission piping damaged during an earthquake. Environmental approval is needed to install the nodules. Staff to obtain approval after work on projects currently under construction has been completed.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$75,000	\$0	0%	\$75,000

### Reina Del Mar/Vallemar Pipeline Replacement Project

Reina Del Mar is a multi-phase multi-year project to improve flow characteristics, access to storage and eliminate the low pressure zone in the Vallemar Valley. Phases I through IV are complete.

- Phase V – Constructs a new 12" pipeline on Reina Del Mar between Bonita and Angelita: the pipeline is installed and is currently being tested.



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- Phase VI – Constructs a temporary regulator at the Bonita/Reina Del Mar intersection: this work is complete. The completed pipeline allows the existing piping north and west of the Amapola regulator to be connected to the high pressure zone.
- Phase VII - Constructs a new 12” pipeline on Reina Del Mar between the school and Winona:
  - Installation and testing of this new pipeline is complete.
  - Completion of Phase VIII work will start the installation of water service connections along Reina De Mar.



Pipeline Work on Reina Del Mar.



- Phase VIII - Constructs a new 12” pipeline on Reina Del Mar between Winona and the temporary regulator at Bonita/Reina Del Mar.
  - The alignment has been set and saw cut. Pot holing for utilities started on the last two blocks of the work in October.
  - Excavation has proved difficult with the poor condition of the roadway and underlying soil. The soil is only lightly compacted and continues to fall into the trench as excavation continues. The close proximity of Callera Creek is the likely reason for this difficulty.



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Pictured above left: Construction at Reina Del Mar. Above right: Trench at Nataqua.

- Nataqua Ave. Pipeline Replacement – staff is nearly halfway complete with the replacement of this street’s piping. The poor condition of the existing piping coupled with higher pressures introduced into the Vallemar area within the last two months prompted its replacement well ahead of schedule.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$210,000	\$266,185	126.8%	\$(56,185)

### Oviedo Tank Regulator Station

The removal of the Oviedo Tank requires the installation of a regulator station that allows water to bypass the tank and provide water to the downstream pressure zone it once served. Staff devised a plan that would save the District nearly \$35,000. Since the District also needs a temporary regulator station to serve as part of the Phase VI improvements for the Reina Del Mar Pipeline Project, staff will use the Oviedo Station on Reina Del Mar and then move it to serve the Oviedo site after the Phase III Reina Del Mar Station is no longer needed (November 2009).

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$45,000	\$19,181	42.6%	\$25,819



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### Francisco Facility Improvements

The existing Francisco facility office building, mechanic’s shop and warehouse do not meet minimum seismic structural requirements. The offices and shop must be demolished and rebuilt, but the warehouse can be retrofit. Staff is examining temporary and future solutions to the space requirements resulting from the demolition and retrofit of these structures. Possible solutions have included:

- The temporary relocation of the Francisco offices to on-site trailers;
- Leasing office spaces within the District;
- Constructing temporary warehouse structures at the Francisco facility;
- Temporarily relocating the warehouse and shop to new satellite facilities to be constructed at the San Pedro Corporation Yard Facility;
- Leasing warehouse spaces.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$490,000	\$0	0%	\$490,000

## **ANNUAL PROGRAMS**

### Reservoir Site Paving

- Staff is working with Bragato Paving, Inc. to pave around the Vallemar Tank. Currently, the site drains towards the tank. The new paving will direct water away from the tank and improve maintenance for the area immediately surrounding the tank.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$60,000	\$1,411	2.4%	\$58,590

### Reservoir Fence Maintenance

- Staff oversaw the replacement of the chain link fencing and a new access gate at the San Pedro Corporation Yard.
- Staff also oversaw the raising of the west vehicle entrance gate at the Royce Tank site ahead of the paving of the entrance to the tank.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$50,000	\$11,050	22.1%	\$38,950

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### Annual Pipeline Project

This annual project will get underway in March of 2009.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$200,000	\$0	0%	\$200,000

### Easement Protection

This program is part of the District's Emergency Preparedness Program.

Easement Clearing/Pipe Locating - A large portion of the District's distribution pipeline is located in open space away from roadways. Pipelines within open areas can be hard to locate during an emergency because vegetation (grasses, shrubs and trees) can obscure items that can normally be seen in streets such as meters, valves and blow-offs. The program locates pipelines, marks them and trims vegetation over pipelines to maintain emergency access and inspects the pipeline alignments for leaks.

Pre-winter work to clear access to the easements is complete. Staff is now working with the GGNRA to improve its easements through their properties.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$65,000	\$24,140	37.1%	\$40,861

### Meter Replacement Program

This program installs and/or updates meters and meter clocks (recording/reporting devices mounted on the top of the meters) in areas that would best improve customer service and the meter reading process. Work on meters and installing house pressure regulators in the Vallemar area is nearly complete. This work is being done in advance of Reina Del Mar Pipeline Project to eliminate the low pressure zone and improve fire flows in the area.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$0	0%	\$100,000

### Fire Hydrant Replacement Program

Work to replace damaged hydrants and those in high visibility areas will restart as soon as work on the Reina Del Mar Pipeline Project is complete.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$65,000	\$0	0%	\$65,000

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## Regulator Upgrades

- Staff did a great job completing work on the Palmetto Regulator Station north of McDonalds.
- Staff is currently designing a replacement and relocation of the regulator station at the corner of Linda Mar and Cabrillo Highway 1 (at the Valero Fuel Station). The actual station will move east to a point in the right-of-way at the SamTrans Bus Station. The existing site is immediately adjacent to the Valero fuel pumps and difficult to access.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$38,999	39%	\$61,001

## Vehicles

- In July the District awarded the purchase of a 2.5 cubic yard capacity John Deere front-end loader and a 20 metric-ton capacity John Deere excavator through a lease-to-own program agreement. The lease-to-own program saves the District about \$2,000 per month over renting the equipment. The front-end loader arrived July 30 and is being used on the Reina Del Mar project. The excavator is scheduled for delivery in mid-August.
- In August staff purchased a refurbished military duce-and-half flatbed truck. The purchase price and delivery cost for the flatbed is \$16,000 representing a \$50,000 savings over a new vehicle.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$160,000	\$43,612	27.26%	\$116,388



NCCWD's new flatbed truck.



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### PARTNERSHIP PROJECTS

#### Recycled Water Project

This project constructs a pump station, three-mile long distribution system and a 400,000 gallon tank. Project design is proceeding as planned.

- The team is in the process of obtaining permits from several agencies including the Coastal Commission, the Department of Fish and Wildlife and Caltrans.
- Staff is currently preparing construction and permanent easement agreements for those sections of the distribution system outside the city and state right-of-ways.
- 3<sup>rd</sup> Amendment to the 2<sup>nd</sup> MOU between the District and the SFPUC was executed in August. It allows for the preparation of an Engineering Study needed to operate a Recycled Water System.
- Staff is also working with the SFPUC on final acceptance of the overall project agreement.
- Construction permitting and the overall agreement between San Francisco Public Utilities Commission (SFPUC) and the District are along the critical path. Both items are holding up grants and low cost funding sources from being implemented.

#### *Non-State Revolving Fund Work*

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$16,000	\$0	0%	\$16,000

#### *Non-State Revolving Fund Work – Legal Fees*

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$140,000	\$2,939	2.1%	\$137,062

#### *SRF Funded Work-District’s Contribution*

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,585,000	\$50,402	1.9%	\$2,534,598

#### Devil’s Slide Tunnel Waterline Project

The Devil’s Slide Tunnel Project requires water for the tunnel fire suppression system, fire hydrants, Caltrans operation and maintenance building, drinking fountains, bathrooms and/or landscaping. To serve these needs the District



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will be constructing nearly 4.5 miles of 12” Ductile Iron Pipe looped water distribution system at an estimated cost of \$5.3 million for Caltrans.

Piping has already been constructed and passed tested requirements for the section within the southbound tunnel bridge.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$16,000	\$0	0%	\$16,000

### I-280 Tunnel Piping Replacement Project

The City and County of San Francisco Sheriff’s Office turned down the District’s request to enter into an agreement to jointly replace their badly deteriorated 10” piping and the District’s badly deteriorated 21” Transmission Main. District will replace its piping in mid-2009.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$220,000	\$51,838	23.6%	\$168,1662

### Tree Tops Apartments Pipeline Relocation Project

Staff is working on an agreement with the owners of the Tree Tops Apartment Complex (southwest corner of Skyline Blvd. and Sharp Park Rd.) to relocate the District’s existing 21” transmission main easement on their property. Construction was tentatively scheduled for September 2008 but is now scheduled for April 2009 to meet Developer funding needs.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$100,000	\$3,615	3.6%	\$96,385

## **BOND FUNDED PROJECTS**

### Christen Hill Tank

Staff developed a conceptual plan in response to the poor condition of the Christen Hill Tank and its close proximity to the San Andreas Fault. The plan removes the existing 3.5 million gallon (MG) tank and replaces it with a new seismically resistant 1.5 MG tank. Pressure requirements exacerbated by the



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newly constructed homes surrounding the tank require that the base elevation of the tank be raised by approximately thirty (30') feet. The project would also construct a new 2.5 MG tank on the west side of the San Andreas Fault along with nearly 6,000' of new transmission piping required to supply both of the proposed tanks. Public outreach and the environmental CEQA process will begin within the next few months.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$2,400,000	\$370	0.1%	\$2,399,630

### Royce Tank Repairs and Site Improvements -

The 3.5 MG tank and pump station improvements are on-line and in service. Staff is working towards completing the remaining site work, such as grading, electrical and lighting improvements.

- Paving was installed around the new tank to drain water away from its base.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$80,000	\$12,075	15.1%	\$67,925

### Gypsy Hill Tank Repairs and Site Improvements-

The 3.5 MG tank is on-line and in service. Staff is now constructing a building for the radio, SCADA controls and sensor equipment. Later this year staff will work to complete the remaining site work, such as grading and lighting improvements.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$150,000	\$71,265	47.5%	\$78,735

### Nelson Tank Replacement

Staff intends to remove this badly deteriorated tank and replace it with a larger tank at a better location as part of the Christen Hill Tank Replacement Project.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$240,000	\$0	0%	\$240,000



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### Park Pacifica Tank Repairs and Site Improvements

Staff completed its scouring and disinfection of the tank prior to putting it back in service in September. The scouring removed rust and failed coating material built up inside the tank. Staff is current awaiting structural engineering analysis of the condition of the tank. It appears that the tank can be seismically retrofit, but an economic analysis will be conducted to determine if its retrofit or replacement is most cost effective.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$1,100,000	\$21,911	0.1%	\$1,078,089

### San Pedro Valley Corporation Yard Improvements

This project would construct a warehouse, permanent materials storage, pipe rack, and a Vac Con tank holding area. RBF Consultants is in the process of preparing the environmental CEQA documents needed for the approval and subsequent construction of the proposed site improvements.

Budget	Year to Date Spent	Percent Spent	Balance Remaining
\$465,000	\$20,343	4.4%	\$444,657

## WATER CONSERVATION PROGRAM

### Public Outreach

- District staff was well received during its participation in the FOGFEST parade. The District's parade entry featured the new flatbed truck with plush toy water droplets being handed out to the crowd. The event was a great way to reconnect with our community, customers and friends.





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- Staff also erected and worked a water conservation booth both days of the event. The main attraction of the booth was the “prize wheel”. Depending on the numbers they spun, an attendee received various water saving devices, a plush toy or a grocery bag made of recycled materials. All the devices came with an explanation of their application and their need along with a request to visit the District website for more water conservation tips and messages. Staff also handed out this year’s water conservation poster and other handouts stressing water conservation.

### Green Business Certification Program

Staff is working with the City of Pacifica to implement a Green Business Certification Program. Once the program is up and running, the District will audit interested businesses and provide a list of water conservation measures to be installed or made. A business receives the green certification once the measures are implemented.