

Water Department Capitol Projects.

F/Y 2005 – 2006

1. **Electronic Meter Reading System:**

This system is an electronic meter reading system that will enable the city to acquire all of the residential, commercial and industrial water meter readings.

Cost: \$30,000.00 initial investment.

Computer, software, 2 hand readers and 60 Badger meters with transmitters.

2. **Well #16 Development:**

This is development of a 500 – 800 gpm water production well that will service approximately 30% of the production load of the fresh water system within the first communities, second communities and the Rancho Tract.

This well will be placed on Great Circle between Isabella and Neuralia. Currently the well has been tested for production volume and water quality, the casing for the primary well has been created and is being installed, this project will be carried over to the 2006 – 2007 fiscal year.

Cost: \$175,000.00 for F/Y 05/06

3. **USDA Waterline replacement:**

The scope of this project is the replacement of approximately 17.5 miles of fresh water distribution line on the north side of town. The project area is located between Mendinburo and North Loop from Mojave Ransburg to 95th street.

This project is funded by a 5 million dollar USDA loan; this project will also be carried over to the 2006 - 2007 fiscal year.

Cost: \$80,000.00 for F/Y 05/06

TOTAL: \$285,000.00

NB1

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F/Y 2006-2007

1. Ammonia injection system:

The city will be required to install multiple ammonia injection points around the city primarily on the 5 main production wells in the central core of the city. This system will activate the chloramines that are proposed to be injected by the Antelope Valley East Kern Water Agency. Currently the AVEK water agency has completed the design work, evaluation and cost analysis of installing a chloramines injection system that will provide super chlorination to their overall system to include the secondary tap that the city is provided. The ammonia injection system is to help activate the chloramines to help provide disinfection for the system.

Cost: \$65,000.00

2. Airway waterline extension:

Extend 10" water main from Sequoia to Joshua on Airway to relieve the demand on the Rancho tract water system.

Cost: \$ 250,000.00

3. Construction of phase II waterline replacement program.

This is the continuation of the city's waterline replacement program, this phase will cover (find area)

Cost: \$5,000,000.00 (bond or loan)

4. Engineering on the 2.5 M/G water reservoir Rancho Tract:

Develop engineering for a new 2.5 million gallon reservoir, to include booster station on the ridge of the Rancho tract. This is to increase the fire protection water and help to open up the south side of the ridge to development.

Cost: \$350,000.00 (split cost with Strata? Prop 50 monies)

5. Engineering on the upgrade of the lower booster station at Rancho Tract.

Develop engineering plans and details for the upgrade of the lower booster station at the Rancho Tract. This upgrade will be needed with the construction of the new 2.5 million dollar water tank .

Cost: \$120,000.00 (split cost with Strata?)

6. Replacement of water main on Grove between 86th & 90th

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This is a water line replacement project to be handled in house by the water department. This project is required due to the increased construction on the street and the amount of water leaks in the area.

Cost: \$85,000.00

7. Explore feasibility of known well sites within the SDI tracts by Silver Saddle Ranch.

Perform draw down tests, sampling and well feasibility study on an abandoned well north east of the Silver Saddle ranch. This project is to verify the possibility of a viable water production well within the SDI tracts.

Cost: \$500,000.00 (paid by SDI / prop 50 monies)

8. Continue installation of electronic meters.

Continue to install and develop the electronic meter reading program. There will be approximately 1000 meters installed.

Cost: \$100,000.00 (water installation fees)

9. Purchase property at the top of the ridge in the rancho tract.

This project is for the purchase of the properties where the 2.5 mg water tank will sit on top of the ridge in the Rancho tract.

Cost: \$50,000.00

TOTAL: 6,520,000.00

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F/Y 2007 – 2008

- 1. Construction of a 2.5 M/G water reservoir in the Rancho Tract:**
Construction of a 2.5 million gallon fresh water reservoir on the ridge of the Rancho tract, this tank will provide additional fire protection and open up development on the south side of the ridge.

Cost: 2,300,000.00 (prop 50 grant/ loan/ split with Strata)
- 2. Construct new booster station at lower Rancho Tract.**
Begin construction of the upgrade on lower booster station at the Rancho Tract. This upgrade will be needed with the construction of the new 2.5 million dollar water tank .

Cost: \$200,000.00
- 3. Engineering on Phase III waterline replacement:**
Develop plans and specs for the next phase of water line replacement.

Cost: \$60,000.00
- 4. Construct a 40' x 100' steel storage building for water parts:**
Construct a new storage and welding shop for the city yard. This new building is needed for the storage and inventory of new water pipe and parts.

Cost: \$100,000.00
- 5. Replacement of the water main on (identify a street)**
This is the continuation of the city's waterline replacement program, this phase will cover (find area)

Cost: 5,000,000.00
- 6. Replacement of 2 T&D water trucks (lease)**
This is the vehicle replacement program; we intend on rolling our vehicles every 5 years to update the fleet.

Cost: \$15,000.00 lease payments.
- 7. Begin geological survey and exploratory of water aquifer within city limits.**
With the critical nature of finding the city's viable water supply, it is critical to identify the location, quality and flow direction so that we may be able to water bank, become eligible for prop 50 monies or defend our position on water rights acquisition.

Cost: \$150,000.00

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8. Complete the installation of electronic meters.

Continue to install and develop the electronic meter reading program. There will be approximately 1000 meters installed.

Cost: \$100,000.00 (water installation fees)

9. Install electronic meter reading base station.

This program will install a metering base station that will be able to retrieve water meter reading within a 2 mile radius of city hall.

Cost: \$80,000.00

TOTAL: 8,005,000.00

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F/Y 2008 – 2009

1. Construction of the phase III water line replacement.

This is the continuation of the city's waterline replacement program.

Cost: 5,000,000.00

2. Engineering phase IV water line replacement.

Develop plans and specs for the next phase of water line replacement.

Cost: \$80,000.00

3. Refurbishment of the interior of the Phase IV reservoir.

This program will refurbish the interior and exterior of the phase IV water reservoir, this program will assist in the life expectancy of the tank.

Cost: \$250,000.00

4. Replacement of the water main on Great Circle between Neuralia and Isabella.

This is a water line replacement project to be handled in house by the water department. This project is required due to the increased construction on the street and the amount of water leaks in the area.

Cost: \$260,000.00

5. Develop a well that is identified in the 2006 – 2007 F/Y for the SDI tract by Silver Saddle Ranch.

This is the development of a fresh water production well within the SDI tract.

Cost: \$800,000.00

6. Replace unit 245 Case backhoe.

This is the replacement of a backhoe that is 10 years old.

Cost: \$75,000.00

7. Complete geological survey and exploratory of water aquifer within city limits.

Cost: \$70,000.00

8. Install 500k water tank from Rancho tract to Wonder acres.

This program will relocate the 500k gallon water reservoir from the Rancho tract to Wonder acres.

Cost: \$300,000.00

TOTAL: 6,835,000.00

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F/Y 2009 – 2010

1. Roll 2 water vehicles purchased in 2006 – 2007 F/Y

This is the vehicle replacement program; we intend on rolling our vehicles every 5 years to update the fleet.

Cost: \$15,000.00 lease payments

2. Replacement of the water main on Ironwood between Isabella and Neuralia.

This is a water line replacement project to be handled in house by the water department. This project is required due to the increased construction on the street and the amount of water leaks in the area.

Cost: 260,000.00

3. Construction of the Phase IV water line replacement.

This is the continuation of the city's waterline replacement program.

Cost: 5,000,000.00

4. Engineering phase V water line replacement.

Develop plans and specs for the next phase of water line replacement.

Cost: \$60,000.00

5. Update SCADA system on all wells and reservoirs.

This program will update our current SCADA monitoring system for all of the fresh water reservoirs to include the new Wonder Acres project.

Cost: \$70,000.00

6. Clean phase I & II reservoirs, service interior.

This program will refurbish the interior and exterior of the phase I & II water reservoir, this program will assist in the life expectancy of the tank.

Cost: \$500,000.00

7. Extend electric power to phase IV.

This program will extend SCE power to the Phase IV fresh water reservoir.

Cost: \$300,000.00

TOTAL: 5,971,000.00

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F/Y 2010 – 2011

1. Construction of the PhaseV water line replacement.

This is the continuation of the city's waterline replacement program.

Cost: 5,000,000.00

2. 16" water main to wonder acres

This project will extend a 16" water line from Yerba to Wonder acres.

Cost: \$2,000,000.00

3. Clean phase III reservoir, service the interior.

This program will refurbish the interior and exterior of the phase III water reservoir, this program will assist in the life expectancy of the tank.

Cost: \$250,000.00

TOTAL: 7,250,000.00