

# WATER RESOURCES - WATER SUPPLY

## EXECUTIVE SUMMARY

Sacramento County Water Agency (SCWA) constructs water supply improvement projects to serve both newly developing areas and existing customers. The SCWA Water Supply Enterprise Fund, which funds SCWA capital projects, contains three zones each with a specific purpose. Zones 40 and 50 provide for the construction of water supply infrastructure and facilities associated with new development. Zone 41 provides retail and wholesale water supply and facility maintenance to customers in eight service areas extending from the Delta to Metro Air Park including portions of Elk Grove and Rancho Cordova. Zone 41 also constructs water supply infrastructure.

In Zones 40 and 50, most of the construction projects consist of new facilities such as pump stations, transmission mains, and treatment facilities to serve water to the developing portions of the unincorporated County, Elk Grove and Rancho Cordova. In Zone 41, the construction projects are primarily in support of maintenance activities such as pump replacement, well rehabilitation and water system retrofits. However, in some of its service areas Zone 41 constructs water supply facilities to meet new development. The estimated capital cost for the construction projects identified in the Five-Year CIP is \$280.5 million.

There are eleven projects identified in the Fiscal Year 2011-12 CIP that are planned or underway by SCWA. The following project descriptions provide examples of the type and magnitude of construction project undertaken by SCWA during the fiscal year.

- **Vineyard Surface Water Treatment Plant Phase 1** – The Vineyard Surface Water Treatment Plant (VSWTP) has been under construction since 2008, and when complete will treat up to fifty million gallons of water per day. The water, which will be pumped from the Sacramento River through the Freeport Regional Water Project before treatment at VSWTP will serve SCWA customers in the Elk Grove and the unincorporated County. The project, which is expected to be online in Fall 2011, is part of a concerted effort to limit groundwater pumping and to ensure the long-term sustainability of the groundwater basin. **Estimated Total Cost: \$ 256,970,067**
- **Supervisory Control and Data Acquisition (SCADA) Upgrade** – SCWA owns and maintains over fifty water wells and eleven water treatment facilities throughout its eight service areas. For efficiency and reliability SCWA employs various SCADA systems to monitor and automatically control this large amount of water production facilities. The existing SCADA systems have reached beyond their useful age and are failing at regular intervals taking additional labor to correct, placing the reliability of the public water system at a less than desirable level. This project upgrades all software and the communications system adding reliability and flexibility. The new communications system will be installed at all sites to efficiently manage the complex water systems, saving costs during low demand times of the years when not all of the production facilities are needed. Costs for this project are shared between Zones 40 and 41. **Estimated Total Cost: \$1,928,778**
- **SCWA System Fluoridation Project** – The State of California incentivized water purveyors to fluoridate the public water systems by requiring fluoridation equipment be installed if grant funding is available. The Sacramento chapter of First 5 offered SCWA a grant to install fluoridation equipment and two years of operations and maintenance costs. SCWA applied for and received the grant and entered into an agreement to install the equipment and fluoridate the water system for a period of twenty-two years. **Estimated Total Cost: \$8,543,934**

# WATER RESOURCES - WATER SUPPLY

## PROJECT SUMMARY

| Proj #                         | Projects                                      | Prior Years        | FY 2011-12<br>Prior Year Roll<br>Over | FY2011-12         | FY2012-13        | FY2013-14        | FY2014-15        | FY2015-16        | Total Cost         |
|--------------------------------|---|--------------------|---------------------------------------|-------------------|------------------|------------------|------------------|------------------|--------------------|
| <b>Zone 40</b>                 |   |                    |                                       |                   |                  |                  |                  |                  |                    |
| 1                              | Anatolia Phase 2 (well site 4)                | 8,519              |                                       | 0                 | 0                | 0                | 1,500,000        | 0                | 1,508,519          |
| 2                              | Elk Grove Water Service Wholesale Meters      | 0                  |                                       | 103,020           |                  |                  |                  |                  | 103,020            |
| 3                              | Excelsior Well #4 -- Drilling                 | 45,310             |                                       | 0                 | 0                | 0                | 418,000          | 0                | 463,310            |
| 4                              | Grantline Rd - UPRR Grade Separation          | 160,526            |                                       | 650,000           | 150,000          | 100,000          | 100,000          | 100,000          | 1,260,526          |
| 5                              | Kammerer/Promenade Flow Control Station       | 60,000             |                                       | 0                 | 0                | 0                | 344,000          | 0                | 404,000            |
| 6                              | Laguna Vineyard Meter/AMR Install             | 0                  |                                       | 650,000           | 650,000          | 0                | 0                | 1,000,000        | 2,300,000          |
| 7                              | SCADA Upgrade (Zone 40 Portion)               | 678,464            |                                       | 418,724           | 0                | 0                | 0                | 0                | 1,097,188          |
| 8                              | Sheldon Road Flow Control Station             | 0                  |                                       | 0                 | 0                | 402,000          | 0                | 0                | 402,000            |
| 9                              | Sunrise-Douglas PRV Station                   | 0                  |                                       | 250,000           |                  |                  |                  |                  | 250,000            |
| 10                             | Vineyard SWTP Phase 1                         | 233,062,848        |                                       | 21,165,358        | 803,750          | 126,315          | 1,811,797        | 0                | 256,970,068        |
| 11                             | Waterman/Grantline Wholesale Meter Station    | 10,851             |                                       | 0                 | 0                | 0                | 0                | 300,000          | 310,851            |
| <b>Sub-total - Zone 40</b>     |   | <b>234,026,518</b> | <b>0</b>                              | <b>23,237,102</b> | <b>1,603,750</b> | <b>628,315</b>   | <b>4,173,797</b> | <b>1,400,000</b> | <b>265,069,482</b> |
| <b>Zone 41</b>                 |   |                    |                                       |                   |                  |                  |                  |                  |                    |
| 12                             | Berrendo Well Construction                    |                    |                                       | 547,500           |                  |                  |                  |                  | 547,500            |
| 13                             | Fluoridation Project (100% grant)             | 731,782            | 0                                     | 3,906,073         | 3,906,079        | 0                | 0                | 0                | 8,543,934          |
| 14                             | Hood Managanese Treatment Facilities          | 0                  | 0                                     | 0                 | 700,000          | 0                | 0                | 0                | 700,000            |
| 15                             | Pipe Replacements 2011-12                     | 0                  | 0                                     | 190,000           | 0                | 0                | 0                | 0                | 190,000            |
| 16                             | Pipe Replacements 2012-13                     | 0                  |                                       |                   | 192,000          | 0                | 0                | 0                | 192,000            |
| 17                             | Pipe Replacements 2013-14                     | 0                  |                                       |                   |                  | 194,000          | 0                | 0                | 194,000            |
| 18                             | Pipe Replacements 2014-15                     | 0                  |                                       |                   |                  |                  | 201,000          | 0                | 201,000            |
| 19                             | Pipe Replacements 2015-16                     | 0                  |                                       |                   |                  |                  |                  | 208,000          | 208,000            |
| 20                             | SCADA Project (Zone 41 Portion)               | 386,189            | 0                                     | 445,401           | 0                | 0                | 0                | 0                | 831,590            |
| 21                             | Security Upgrades 2013-14                     | 0                  | 0                                     | 0                 | 0                | 10,000           | 0                | 0                | 10,000             |
| 22                             | Security Upgrades 2015-16                     | 0                  |                                       | 0                 | 0                | 0                | 0                | 10,000           | 10,000             |
| 23                             | Well Upgrades/Rehabilitation Projects 2011-12 | 0                  |                                       | 747,500           | 0                | 0                | 0                | 0                | 747,500            |
| 24                             | Well Upgrades/Rehabilitation Projects 2012-13 | 0                  |                                       | 0                 | 750,500          | 0                | 0                | 0                | 750,500            |
| 25                             | Well Upgrades/Rehabilitation Projects 2013-14 | 0                  |                                       | 0                 | 0                | 753,600          | 0                | 0                | 753,600            |
| 26                             | Well Upgrades/Rehabilitation Projects 2014-15 | 0                  |                                       | 0                 | 0                | 0                | 757,500          | 0                | 757,500            |
| 27                             | Well Upgrades/Rehabilitation Projects 2015-16 | 0                  | 0                                     | 0                 | 0                | 0                | 0                | 760,800          | 760,800            |
| <b>Sub-total - Zone 41</b>     |   | <b>1,117,971</b>   | <b>0</b>                              | <b>5,836,474</b>  | <b>5,548,579</b> | <b>957,600</b>   | <b>958,500</b>   | <b>978,800</b>   | <b>15,397,924</b>  |
| <b>Total - Zones 40 and 41</b> |   | <b>235,144,489</b> | <b>0</b>                              | <b>29,073,576</b> | <b>7,152,329</b> | <b>1,585,915</b> | <b>5,132,297</b> | <b>2,378,800</b> | <b>280,467,406</b> |

# WATER RESOURCES - WATER SUPPLY

## Anatolia WTP Phase 2

Sacramento, CA 95742

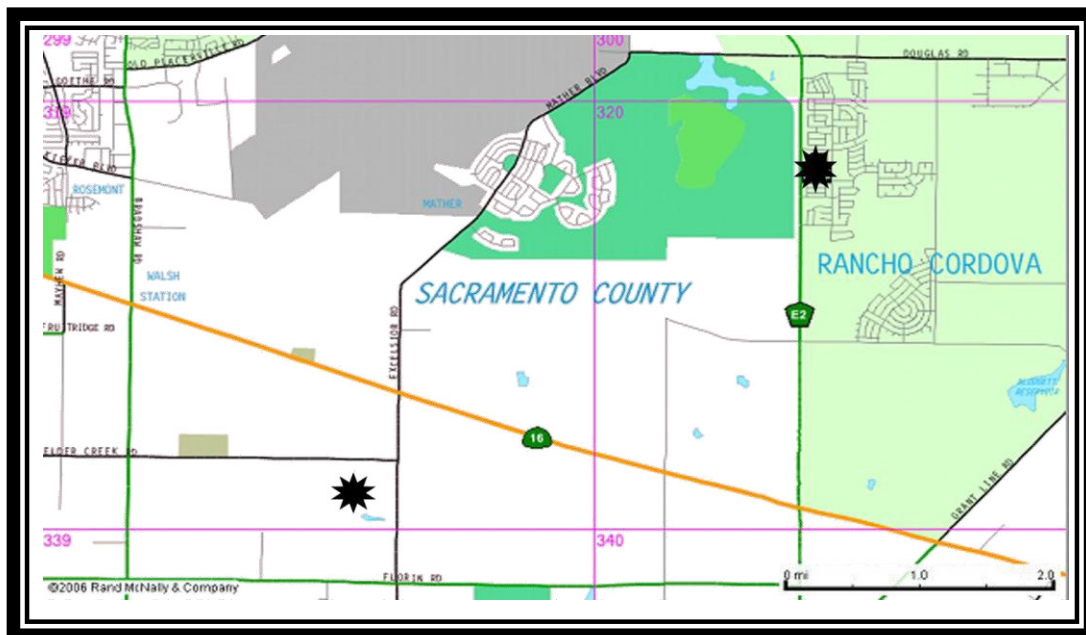
Project #1

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$1,508,519

**Expected Completion Date:** 2015

**Funding Sources:** SCWA Zone 40



### Project Description:

This project will increase water production capacity in the North Service Area (NSA) of Zone 40. It will include equipping and improving Excelsior Well #4, installing approximately 1500 feet of 12-inch raw water main, and expanding the Anatolia WTP. The treatment plant expansion will include installation of Filter #4, Backwash Reclaim Pump #5, Treated Water Booster Pump #5, and Chlorine Feed Pump #3.

# WATER RESOURCES - WATER SUPPLY

## Anatolia WTP Phase 2

| Project Costs           | Prior        | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year      | Fiscal Year | Total            |
|-------------------------|--------------|-------------|----------|-------------|-------------|------------------|-------------|------------------|
|                         | Years        | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16          |             |                  |
|                         | Expenses     | PY Rollover | Budget   | Budget      | Budget      | Budget           | Budget      |                  |
| Construction Costs      | 0            | 0           | 0        | 0           | 0           | 1,250,000        | 0           | 1,250,000        |
| Project Mgmt/Design     | 0            | 0           | 0        | 0           | 0           | 85,000           | 0           | 85,000           |
| Construction Inspection | 0            | 0           | 0        | 0           | 0           | 125,000          | 0           | 125,000          |
| Land Acquisition        | 0            |             | 0        | 0           | 0           | 2,000            | 0           | 2,000            |
| Misc. Project Costs     | 8,519        | 0           | 0        | 0           | 0           | 38,000           | 0           | 46,519           |
| <b>TOTAL</b>            | <b>8,519</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>1,500,000</b> | <b>0</b>    | <b>1,508,519</b> |

| Funding Sources      | Prior        | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year      | Fiscal Year | Total            |
|----------------------|--------------|-------------|----------|-------------|-------------|------------------|-------------|------------------|
|                      | Years        | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16          |             |                  |
|                      | Expenses     | PY Rollover | Budget   | Budget      | Budget      | Budget           | Budget      |                  |
| Grant Funding        | 0            | 0           | 0        | 0           | 0           | 0                | 0           | 0                |
| SCWA Z40, Bond Funds | 0            | 0           | 0        | 0           | 0           | 0                | 0           | 0                |
| SCWA Z40 Paygo       | 8,519        | 0           | 0        | 0           | 0           | 1,500,000        | 0           | 1,508,519        |
| <b>TOTAL</b>         | <b>8,519</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>1,500,000</b> | <b>0</b>    | <b>1,508,519</b> |

# WATER RESOURCES - WATER SUPPLY

## Elk Grove Water Service Wholesale Meters

Sacramento, CA 95624

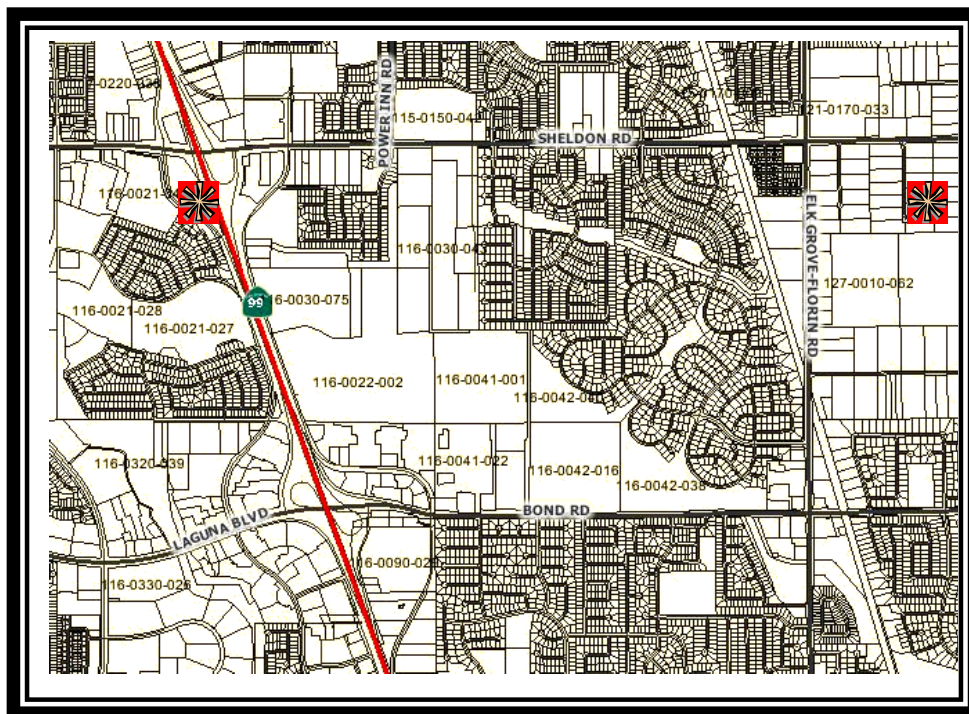
Project #2

Department: Water Resources (SCWA)

Estimated Project Cost: \$103,020

Expected Completion Date: 2012

Funding Sources: SCWA Zone 40



### Project Description:

This project involves the construction of two below grade wholesale water meter stations at existing points of connection between SCWA and Elk Grove Water Service. The two locations are 1) East Stockton Blvd. just south of Sheldon Road and 2) Elk Grove-Florin Road just south of Sheldon Road. An environmental review has not yet been performed. Property or easement acquisition may be required.

# WATER RESOURCES - WATER SUPPLY

## Elk Grove Water Service Wholesale Meters

| Project Costs           | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13        | 2012-13     | 2013-14     | 2014-15     | 2015-16     |                |
|                         | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Construction Costs      | 0        | 0           | 67,000         | 0           | 0           | 0           | 0           | 67,000         |
| Project Mgmt/Design     | 0        | 0           | 28,000         | 0           | 0           | 0           | 0           | 28,000         |
| Construction Inspection | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| Land Acquisition        | 0        |             | 3,000          | 0           | 0           | 0           | 0           | 3,000          |
| Misc. Project Costs     | 0        | 0           | 5,020          | 0           | 0           | 0           | 0           | 5,020          |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>103,020</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>103,020</b> |

| Funding Sources      | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|----------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                      | Years    | 2011-12     | 2012-13        | 2012-13     | 2013-14     | 2014-15     | 2015-16     |                |
|                      | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Grant Funding        | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z40, Bond Funds | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z40 Paygo       | 0        | 0           | 103,020        | 0           | 0           | 0           | 0           | 103,020        |
| <b>TOTAL</b>         | <b>0</b> | <b>0</b>    | <b>103,020</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>103,020</b> |

# WATER RESOURCES - WATER SUPPLY

## Excelsior Well 4 - Drilling

Sacramento, CA 95829

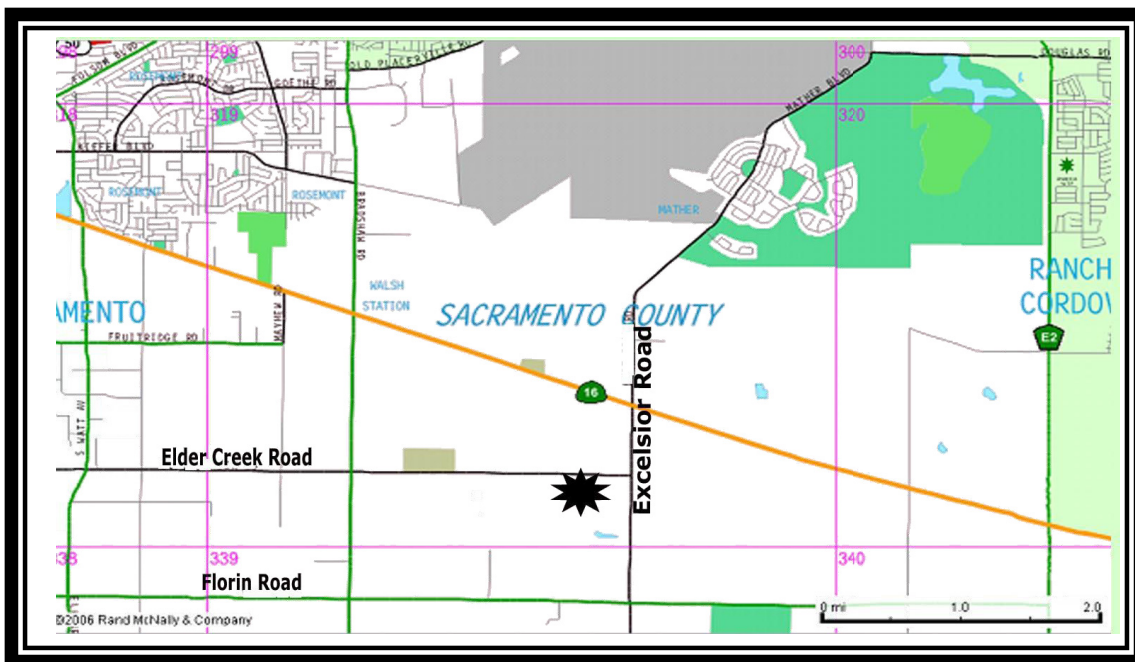
Project #3

Department: Water Resources (SCWA)

Estimated Project Cost: \$463,310

Expected Completion Date: 2014

Funding Sources: SCWA Zone 40



### Project Description:

This project will provide another source of supply for the Anatolia WTP. The site has been purchased and a CEQA document (Neg Dec; Control No. 04-PWE-0918) has been completed and approved for this facility. The well drilling will be completed in fall 2014. The well site improvements and equipping will occur as part of the Anatolia WTP Phase 2 project.

# WATER RESOURCES - WATER SUPPLY

## Excelsior Well 4 - Drilling

| Project Costs           | Prior         | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year    | Fiscal Year | Total          |
|-------------------------|---------------|-------------|----------|-------------|-------------|----------------|-------------|----------------|
|                         | Years         | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16        |             |                |
|                         | Expenses      | PY Rollover | Budget   | Budget      | Budget      | Budget         | Budget      |                |
| Construction Costs      | 0             | 0           | 0        | 0           | 0           | 330,000        | 0           | 330,000        |
| Project Mgmt/Design     | 0             | 0           | 0        | 0           | 0           | 27,500         | 0           | 27,500         |
| Construction Inspection | 0             | 0           | 0        | 0           | 0           | 50,000         | 0           | 50,000         |
| Land Acquisition        | 0             | 0           | 0        | 0           | 0           | 2,000          | 0           | 2,000          |
| Misc. Project Costs     | 45,310        | 0           | 0        | 0           | 0           | 8,500          | 0           | 53,810         |
| <b>TOTAL</b>            | <b>45,310</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>418,000</b> | <b>0</b>    | <b>463,310</b> |

| Funding Sources      | Prior         | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year    | Fiscal Year | Total          |
|----------------------|---------------|-------------|----------|-------------|-------------|----------------|-------------|----------------|
|                      | Years         | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16        |             |                |
|                      | Expenses      | PY Rollover | Budget   | Budget      | Budget      | Budget         | Budget      |                |
| Grant Funding        | 0             | 0           | 0        | 0           | 0           | 0              | 0           | 0              |
| SCWA Z40, Bond Funds | 0             | 0           | 0        | 0           | 0           | 0              | 0           | 0              |
| SCWA Z40 Paygo       | 45,310        | 0           | 0        | 0           | 0           | 418,000        | 0           | 463,310        |
| <b>TOTAL</b>         | <b>45,310</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>418,000</b> | <b>0</b>    | <b>463,310</b> |



# WATER RESOURCES - WATER SUPPLY

## Grantline-UPRR Grade Separation

Sacramento, CA 95624

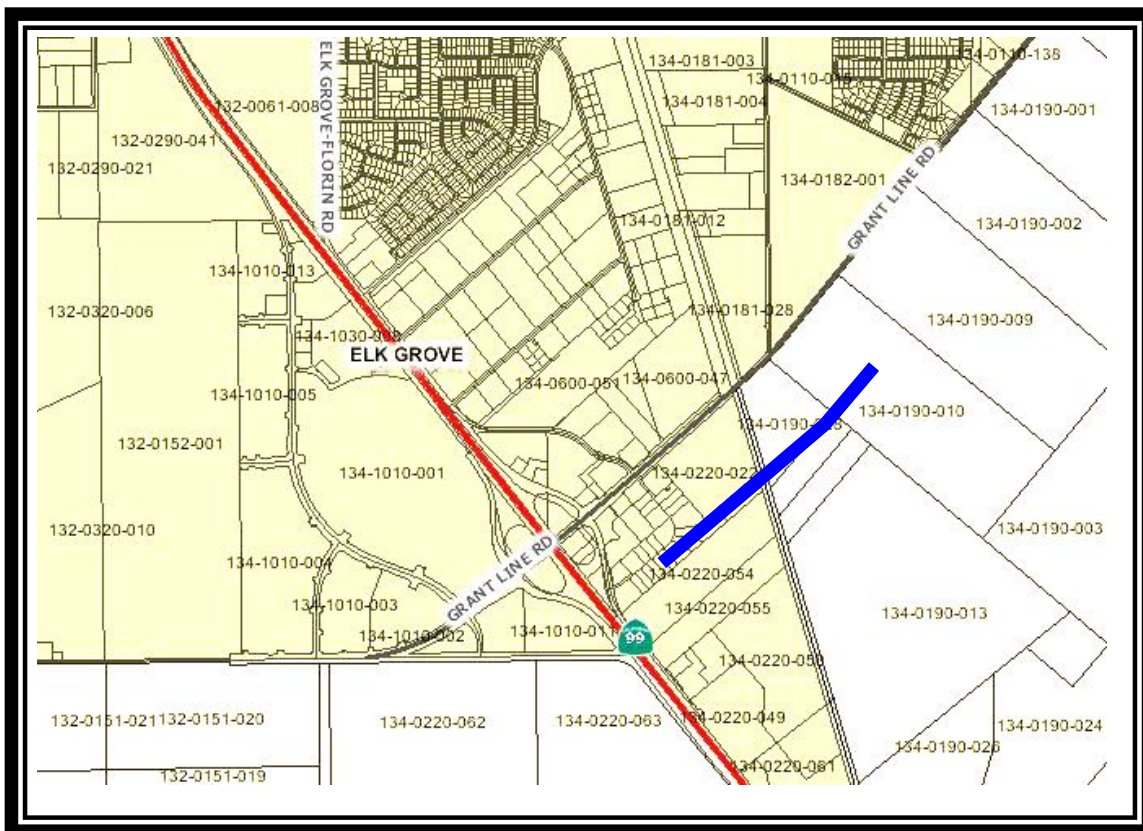
Project # 4

Department: Water Resources (SCWA)

Estimated Project Cost: \$1,260,526

Expected Completion Date: 2014

Funding Sources: SCWA Zone 40



### Project Description:

This project includes the installation of a 24-inch transmission main with the City of Elk Grove's Grade Separation project for Grantline Road at its UPRR crossing. This will complete the 24-inch t-main along the Grantline-Kammerer corridor that connects the Central and South water service areas of Zone 40, replacing a 14-inch main that currently crosses beneath the UPRR tracks. The new 24-inch main will cross underneath the tracks rather than in the bridge deck of the overpass. Construction is scheduled to start in spring 2012. SCWA will reimburse fifty percent after construction and the remainder through annual payments over five years.

# WATER RESOURCES - WATER SUPPLY

## Grantline UPRR Grade Separation

| Project Costs           | Prior          | Fiscal Year |                | Fiscal Year    | Fiscal Year    | Fiscal Year    | Fiscal Year    | Total            |
|-------------------------|----------------|-------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                         | Years          | 2011-12     | 2012-13        | 2013-14        | 2014-15        | 2015-16        |                |                  |
|                         | Expenses       | PY Rollover | Budget         | Budget         | Budget         | Budget         | Budget         |                  |
| Construction Costs      | 0              | 0           | 500,000        | 100,000        | 100,000        | 100,000        | 100,000        | 900,000          |
| Project Mgmt/Design     | 160,526        | 0           | 130,000        | 25,000         | 0              | 0              | 0              | 315,526          |
| Construction Inspection | 0              | 0           | 20,000         | 25,000         | 0              | 0              | 0              | 45,000           |
| Land Acquisition        | 0              | 0           | 0              | 0              | 0              | 0              | 0              | 0                |
| Misc. Project Costs     | 0              | 0           | 0              | 0              | 0              | 0              | 0              | 0                |
| <b>TOTAL</b>            | <b>160,526</b> | <b>0</b>    | <b>650,000</b> | <b>150,000</b> | <b>100,000</b> | <b>100,000</b> | <b>100,000</b> | <b>1,260,526</b> |

| Funding Sources      | Prior          | Fiscal Year |                | Fiscal Year    | Fiscal Year    | Fiscal Year    | Fiscal Year    | Total            |
|----------------------|----------------|-------------|----------------|----------------|----------------|----------------|----------------|------------------|
|                      | Years          | 2011-12     | 2012-13        | 2013-14        | 2014-15        | 2015-16        |                |                  |
|                      | Expenses       | PY Rollover | Budget         | Budget         | Budget         | Budget         | Budget         |                  |
| Grant Funding        | 0              | 0           | 0              | 0              | 0              | 0              | 0              | 0                |
| SCWA Z40, Bond Funds | 0              | 0           | 0              | 0              | 0              | 0              | 0              | 0                |
| SCWA Z40 Paygo       | 160,526        | 0           | 650,000        | 150,000        | 100,000        | 100,000        | 100,000        | 1,260,526        |
| <b>TOTAL</b>         | <b>160,526</b> | <b>0</b>    | <b>650,000</b> | <b>150,000</b> | <b>100,000</b> | <b>100,000</b> | <b>100,000</b> | <b>1,260,526</b> |

# WATER RESOURCES - WATER SUPPLY

## Kammerer-Promenade Flow Control Station

Sacramento, CA 95758

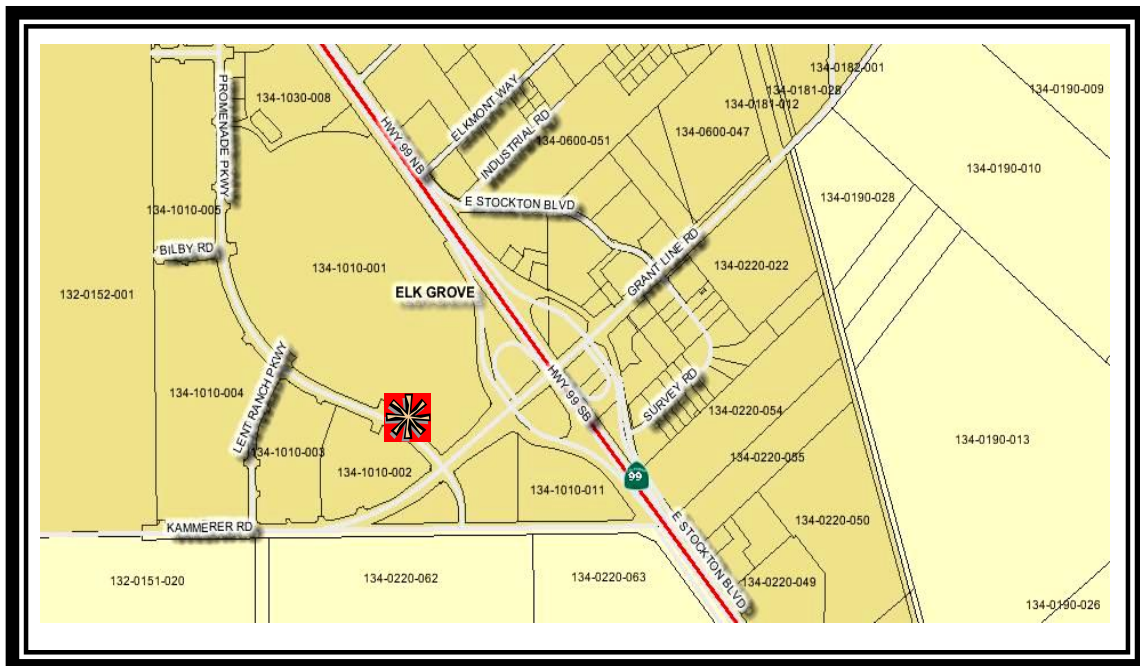
Project # 5

Department: Water Resources (SCWA)

Estimated Project Cost: \$404,000

Expected Completion Date: 2015

Funding Sources: SCWA Zone 40



### Project Description:

This project involves the construction of below grade vaults that will contain a rate-of-flow control valve and a flow meter to control and monitor the flow of water from the Central Service Area to the South Service Area of Zone 40. The flow control station will be located on the north side of Kammerer Road, just east of Promenade Pkwy. The t-main in Kammerer Road has two 24-inch stubs that will carry water to and from this flow control station. An environmental review has not yet been performed. A permanent easement has been acquired from the adjacent Promenade Mall property.

Some materials for this facility were purchased during the Grantline/Hwy99 Interchange project. The flow control station was going to be added to that project by change order, but negotiations with the contractor broke down after the materials were purchased. SCWA will soon take ownership of said materials.

# WATER RESOURCES - WATER SUPPLY

## Kammerer-Promenade Flow Control Station

| Project Costs           | Prior         | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year    | Fiscal Year | Total          |
|-------------------------|---------------|-------------|----------|-------------|-------------|----------------|-------------|----------------|
|                         | Years         | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16        |             |                |
|                         | Expenses      | PY Rollover | Budget   | Budget      | Budget      | Budget         | Budget      |                |
| Construction Costs      | 60,000        | 0           | 0        | 0           | 0           | 200,000        | 0           | 260,000        |
| Project Mgmt/Design     | 0             | 0           | 0        | 0           | 0           | 69,000         | 0           | 69,000         |
| Construction Inspection | 0             | 0           | 0        | 0           | 0           | 50,000         | 0           | 50,000         |
| Land Acquisition        | 0             | 0           | 0        | 0           | 0           | 0              | 0           | 0              |
| Misc. Project Costs     | 0             | 0           | 0        | 0           | 0           | 25,000         | 0           | 25,000         |
| <b>TOTAL</b>            | <b>60,000</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>344,000</b> | <b>0</b>    | <b>404,000</b> |

| Funding Sources      | Prior         | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year    | Fiscal Year | Total          |
|----------------------|---------------|-------------|----------|-------------|-------------|----------------|-------------|----------------|
|                      | Years         | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16        |             |                |
|                      | Expenses      | PY Rollover | Budget   | Budget      | Budget      | Budget         | Budget      |                |
| Grant Funding        | 0             | 0           | 0        | 0           | 0           | 0              | 0           | 0              |
| SCWA Z40, Bond Funds | 0             | 0           | 0        | 0           | 0           | 0              | 0           | 0              |
| SCWA Z40 Paygo       | 60,000        | 0           | 0        | 0           | 0           | 344,000        | 0           | 404,000        |
| <b>TOTAL</b>         | <b>60,000</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>344,000</b> | <b>0</b>    | <b>404,000</b> |

# WATER RESOURCES - WATER SUPPLY

## Laguna Vineyard Meter Retrofit Project

Sacramento, CA 95829

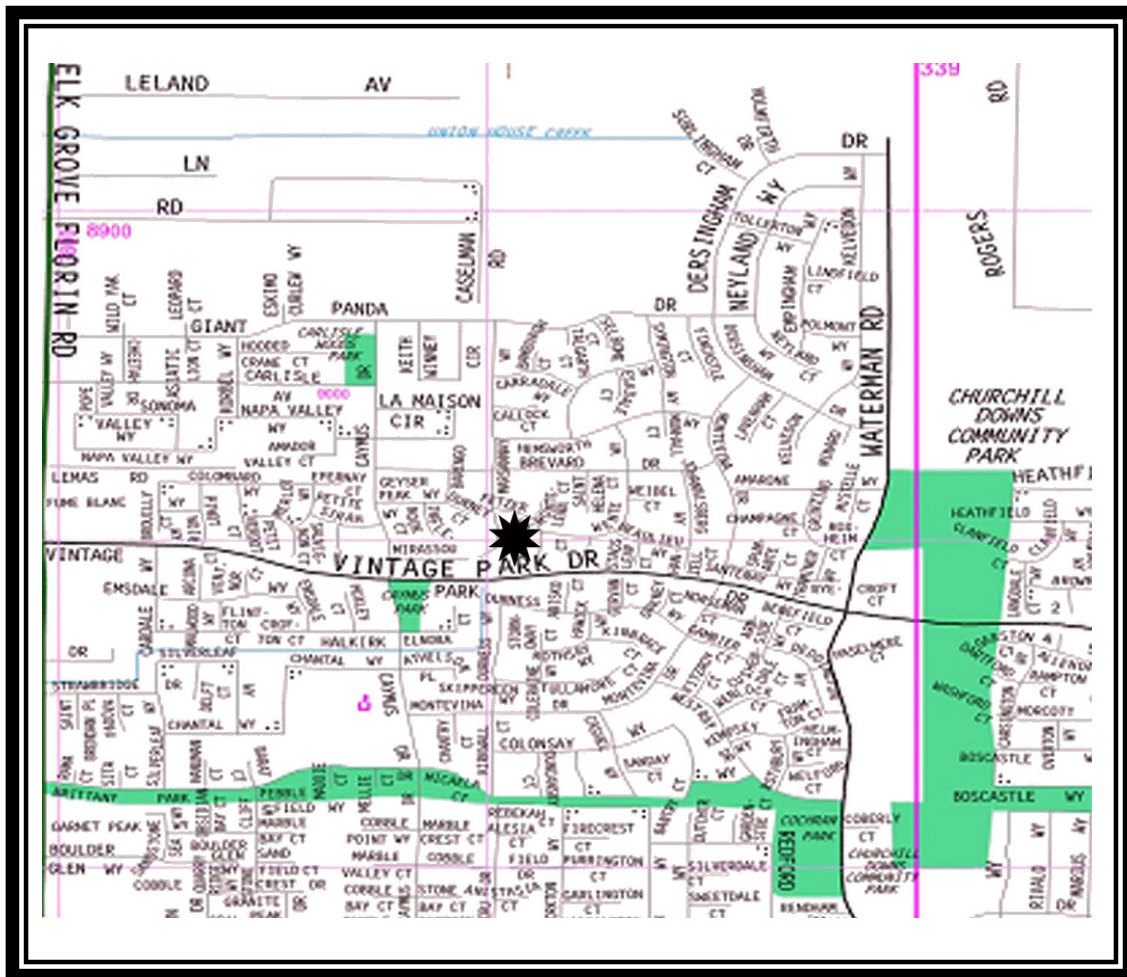
Project # 6

Department: Water Resources (SCWA)

Estimated Project Cost: \$2,300,000

Expected Completion Date: 2016

Funding Sources: SCWA Zone 40



### Project Description:

This project will install 1,200 residential meters in the Vineyard Service area. This project will furnish all of the labor, materials, and equipment for installing water meters and radio read transceiver units in accordance with Sacramento County Improvement Standards and Specifications.

## WATER RESOURCES - WATER SUPPLY

### Laguna Vineyard Meter Retrofit

| Project Costs           | Prior    | Fiscal Year |                | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year      | Total            |
|-------------------------|----------|-------------|----------------|----------------|-------------|-------------|------------------|------------------|
|                         | Years    | 2011-12     | 2012-13        | 2013-14        | 2014-15     | 2015-16     |                  |                  |
|                         | Expenses | PY Rollover | Budget         | Budget         | Budget      | Budget      | Budget           |                  |
| Construction Costs      | 0        | 0           | 547,000        | 547,000        | 0           | 0           | 842,000          | 1,936,000        |
| Project Mgmt/Design     | 0        | 0           | 38,300         | 38,300         | 0           | 0           | 58,800           | 135,400          |
| Construction Inspection | 0        | 0           | 54,700         | 54,700         | 0           | 0           | 84,200           | 193,600          |
| Land Acquisition        | 0        |             | 0              | 0              | 0           | 0           | 0                | 0                |
| Misc. Project Costs     | 0        | 0           | 10,000         | 10,000         | 0           | 0           | 15,000           | 35,000           |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>650,000</b> | <b>650,000</b> | <b>0</b>    | <b>0</b>    | <b>1,000,000</b> | <b>2,300,000</b> |

| Funding Sources      | Prior    | Fiscal Year |                | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year      | Total            |
|----------------------|----------|-------------|----------------|----------------|-------------|-------------|------------------|------------------|
|                      | Years    | 2011-12     | 2012-13        | 2013-14        | 2014-15     | 2015-16     |                  |                  |
|                      | Expenses | PY Rollover | Budget         | Budget         | Budget      | Budget      | Budget           |                  |
| Grant Funding        | 0        | 0           | 650,000        | 650,000        | 0           | 0           | 1,000,000        | 2,300,000        |
| SCWA Z40, Bond Funds | 0        | 0           | 0              | 0              | 0           | 0           | 0                | 0                |
| SCWA Z40 Paygo       | 0        | 0           | 0              | 0              | 0           | 0           | 0                | 0                |
| <b>TOTAL</b>         | <b>0</b> | <b>0</b>    | <b>650,000</b> | <b>650,000</b> | <b>0</b>    | <b>0</b>    | <b>1,000,000</b> | <b>2,300,000</b> |

# WATER RESOURCES - WATER SUPPLY

## SCADA Upgrade (Zone 40 Portion)

All Zone 40 Service Areas

Project # 7

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$1,097,188

**Expected Completion Date:** 2012

**Funding Sources:** SCWA Zone 40

**Project Description:**

The Sacramento County Water Agency owns and maintains over 50 water wells and 11 water treatment facilities throughout its 10 service areas. For efficiency and reliability SCWA employs a Supervisory Control and Data Acquisition (SCADA) system to monitor and automatically control this large amount of water production facilities. The existing SCADA systems has reached beyond its useful age and is failing at regular intervals taking additional labor to constantly correct and placing the reliability of the public water system in a less than desirable level. The newer facilities have become more complex exceeding the abilities of the older SCADA system resulting in a patchwork of equipment and software that is precarious.

This project upgrades all software and the communications system adding reliability and flexibility. The new system is able to be expanded to include many more data points now and into the future allowing staff to provide a finer programming resolution and the ability to monitor additional functions that have historically been “field verified”. The new communications component will allow sites to be folded into the system to better manage the systems overall saving costs during times of the years when demands are smaller and not all of the production facilities are needed.

**SCADA Upgrade (Zone 40 Portion)**

| Project Costs           | Prior          | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total            |
|-------------------------|----------------|-------------|----------------|-------------|-------------|-------------|-------------|------------------|
|                         | Years          | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                  |
|                         | Expenses       | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                  |
| Construction Costs      | 0              | 0           | 205,670        | 0           | 0           | 0           | 0           | 205,670          |
| Project Mgmt/Design     | 0              | 0           | 207,294        | 0           | 0           | 0           | 0           | 207,294          |
| Construction Inspection | 0              | 0           | 5,760          | 0           | 0           | 0           | 0           | 5,760            |
| Land Acquisition        | 0              | 0           | 0              | 0           | 0           | 0           | 0           | 0                |
| Misc. Project Costs     | 0              | 0           | 0              | 0           | 0           | 0           | 0           | 0                |
| <b>TOTAL</b>            | <b>678,464</b> | <b>0</b>    | <b>418,724</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,097,188</b> |

| Funding Sources     | Prior          | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total            |
|---------------------|----------------|-------------|----------------|-------------|-------------|-------------|-------------|------------------|
|                     | Years          | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                  |
|                     | Expenses       | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                  |
| Grant Funding       | 0              | 0           | 0              | 0           | 0           | 0           | 0           | 0                |
| SCWA Z40 Bond Funds | 0              | 0           | 0              | 0           | 0           | 0           | 0           | 0                |
| SCWA Z40 Paygo      | 678,464        | 0           | 418,724        | 0           | 0           | 0           | 0           | 1,097,188        |
| <b>TOTAL</b>        | <b>678,464</b> | <b>0</b>    | <b>418,724</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>1,097,188</b> |

## WATER RESOURCES - WATER SUPPLY

### Sheldon-Hwy99 Flow Control Station

Sacramento, CA 95758

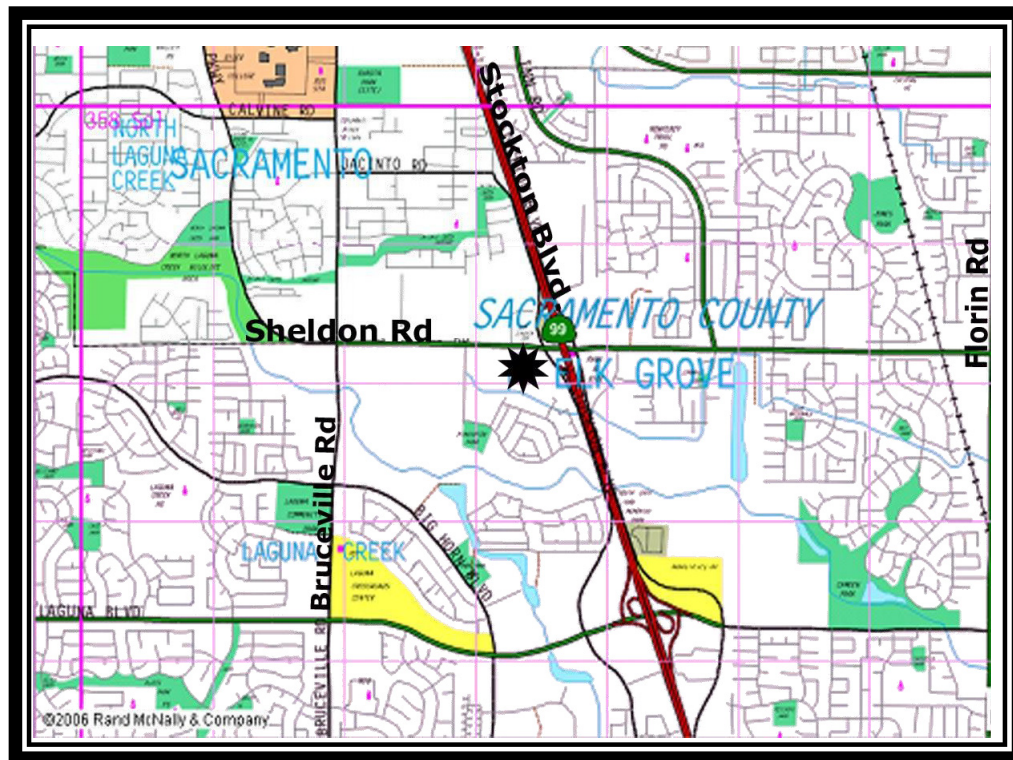
Project # 8

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$402,000

**Expected Completion Date:** 2014

**Funding Sources:** SCWA Zone 40



#### **Project Description:**

This project involves the construction of below grade vaults that will contain a rate-of-flow control valve and a flow meter to control and monitor the flow of water from the Central Service Area to the South Service Area of Zone 40. The flow control station will be located on the south side of Sheldon Road, just west of Hwy 99. The t-main in Sheldon Road has two 24-inch stubs that will carry water to and from this flow control station. An environmental review has not yet been performed. Property or easement acquisition will be required.



# WATER RESOURCES - WATER SUPPLY

## Sheldon-Hwy 99 Flow control Station

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year    | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------|-------------|----------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15        | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget         | Budget      | Budget      |                |
| Construction Costs      | 0        | 0           | 0        | 0           | 250,000        | 0           | 0           | 250,000        |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 75,000         | 0           | 0           | 75,000         |
| Construction Inspection | 0        | 0           | 0        | 0           | 50,000         | 0           | 0           | 50,000         |
| Land Acquisition        | 0        | 0           | 0        | 0           | 2,000          | 0           | 0           | 2,000          |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 25,000         | 0           | 0           | 25,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>402,000</b> | <b>0</b>    | <b>0</b>    | <b>402,000</b> |

| Funding Sources      | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year    | Fiscal Year | Fiscal Year | Total          |
|----------------------|----------|-------------|----------|-------------|----------------|-------------|-------------|----------------|
|                      | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15        | 2015-16     |             |                |
|                      | Expenses | PY Rollover | Budget   | Budget      | Budget         | Budget      | Budget      |                |
| Grant Funding        | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| SCWA Z40, Bond Funds | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| SCWA Z40 Paygo       | 0        | 0           | 0        | 0           | 402,000        | 0           | 0           | 402,000        |
| <b>TOTAL</b>         | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>402,000</b> | <b>0</b>    | <b>0</b>    | <b>402,000</b> |

## WATER RESOURCES - WATER SUPPLY

### Sunrise-Douglas Pressure Reducing Valve Station

Rancho Cordova, CA 95742

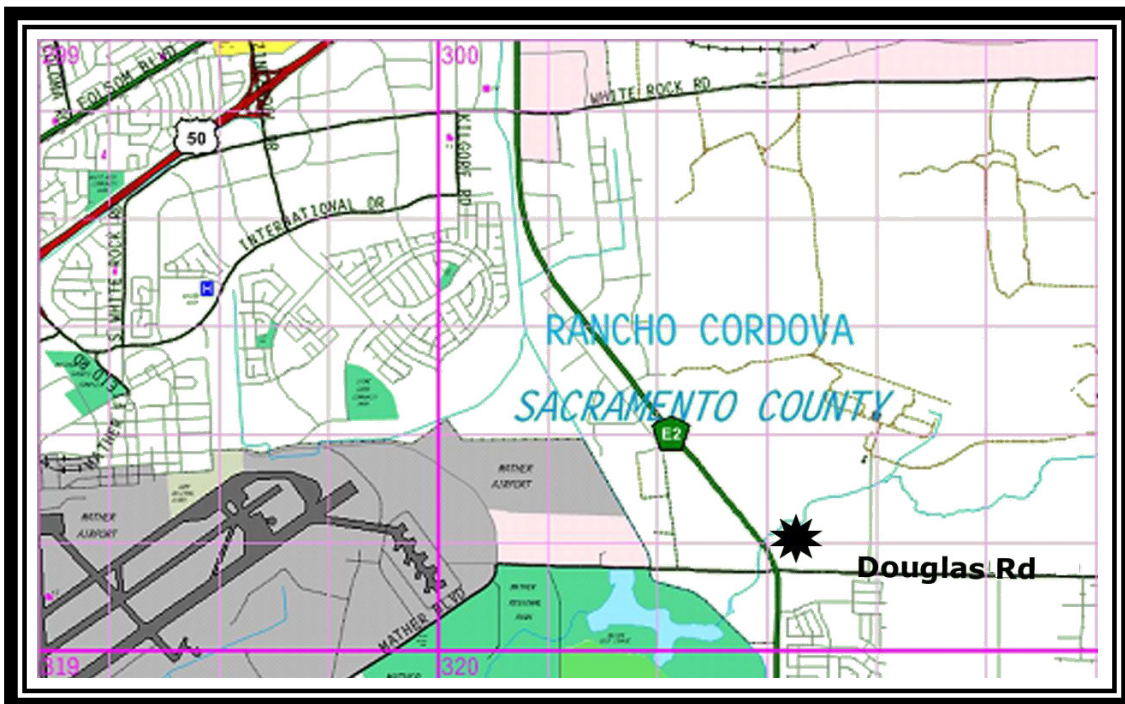
Project # 9

Department: Water Resources (SCWA)

Estimated Project Cost: \$250,000

Expected Completion Date: 2012

Funding Sources: SCWA Zone 40



#### Project Description:

This project will include the construction of a pressure reducing station to control the flow of water between pressure zones in the North Service Area. The goal is to limit how much water from Mather Housing and Anatolia WTP's is used to serve customers along the Sunrise Blvd. corridor north of Douglas Road. An environmental review has not been performed. Property or easement acquisition may be necessary.

# WATER RESOURCES - WATER SUPPLY

## Sunrise-Douglas Pressure Reducing Valve Station

| Project Costs           | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Construction Costs      | 0        | 0           | 170,000        | 0           | 0           | 0           | 0           | 170,000        |
| Project Mgmt/Design     | 0        | 0           | 30,000         | 0           | 0           | 0           | 0           | 30,000         |
| Construction Inspection | 0        | 0           | 30,000         | 0           | 0           | 0           | 0           | 30,000         |
| Land Acquisition        | 0        | 0           | 10,000         | 0           | 0           | 0           | 0           | 10,000         |
| Misc. Project Costs     | 0        | 0           | 10,000         | 0           | 0           | 0           | 0           | 10,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>250,000</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>250,000</b> |

| Funding Sources      | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|----------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                      | Years    | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                |
|                      | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Grant Funding        | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z40, Bond Funds | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z40 Paygo       | 0        | 0           | 250,000        | 0           | 0           | 0           | 0           | 250,000        |
| <b>TOTAL</b>         | <b>0</b> | <b>0</b>    | <b>250,000</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>250,000</b> |

## WATER RESOURCES - WATER SUPPLY

### Vineyard Surface Water Treatment Plant, Phase 1

Sacramento, CA 95829

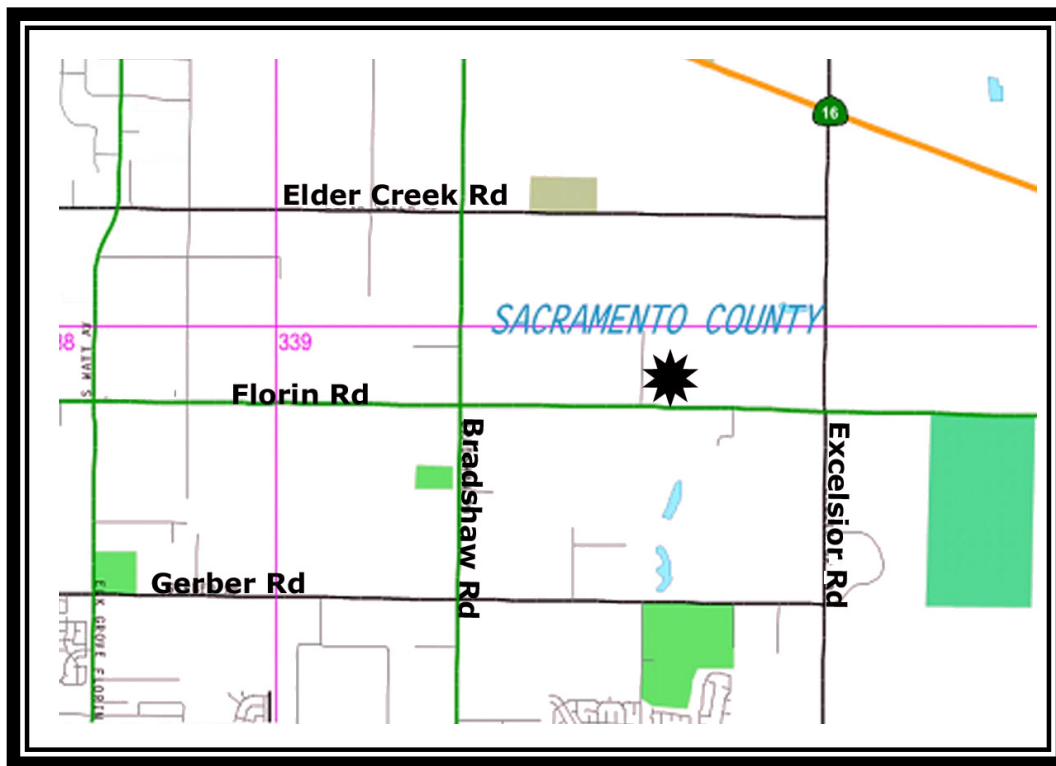
Project #10

Department: Water Resources (SCWA)

Estimated Project Cost: \$256,970,068

Expected Completion Date: 2011

Funding Sources: SCWA Zone 40



#### Project Description:

This project includes the construction of conventional surface water treatment plant and a water agency operations center and corporation yard on an 80-acre parcel on Florin Road 1 mile east of Bradshaw Road. The treatment capacity of the Phase 1 project is 50 MGD. Future expansion will increase the total plant capacity to 100 MGD. The plant will treat water from the Sacramento River that will be diverted, pumped, and delivered to the plant by the Freeport Regional Water Project facilities. Construction started in April 2008 and is scheduled for completion in November 2011.

# WATER RESOURCES - WATER SUPPLY

## Vineyard Surface Water Treatment Plant Phase 1

| Project Costs           | Prior              | Fiscal Year |                   | Fiscal Year    | Fiscal Year    | Fiscal Year      | Fiscal Year | Total              |
|-------------------------|--------------------|-------------|-------------------|----------------|----------------|------------------|-------------|--------------------|
|                         | Years              | 2011-12     | 2012-13           | 2013-14        | 2014-15        | 2015-16          |             |                    |
|                         | Expenses           | PY Rollover | Budget            | Budget         | Budget         | Budget           | Budget      |                    |
| Construction Costs      | 193,008,168        | 0           | 16,366,667        | 0              | 0              | 0                | 0           | 209,374,835        |
| Project Mgmt/Design     | 19,586,180         | 0           | 1,546,691         | 200,000        | 0              | 0                | 0           | 21,332,871         |
| Construction Inspection | 15,950,000         | 0           | 2,200,000         | 105,000        | 0              | 0                | 0           | 18,255,000         |
| Land Acquisition        | 1,200,000          | 0           | 0                 | 0              | 0              | 0                | 0           | 1,200,000          |
| Misc. Project Costs     | 3,318,500          | 0           | 1,052,000         | 498,750        | 126,315        | 1,811,797        | 0           | 6,807,362          |
| <b>TOTAL</b>            | <b>233,062,848</b> | <b>0</b>    | <b>21,165,358</b> | <b>803,750</b> | <b>126,315</b> | <b>1,811,797</b> | <b>0</b>    | <b>256,970,068</b> |

| Funding Sources      | Prior              | Fiscal Year |                   | Fiscal Year    | Fiscal Year    | Fiscal Year      | Fiscal Year | Total              |
|----------------------|--------------------|-------------|-------------------|----------------|----------------|------------------|-------------|--------------------|
|                      | Years              | 2011-12     | 2012-13           | 2013-14        | 2014-15        | 2015-16          |             |                    |
|                      | Expenses           | PY Rollover | Budget            | Budget         | Budget         | Budget           | Budget      |                    |
| Grant Funding        | 0                  | 0           | 0                 | 0              | 0              | 0                | 0           | 0                  |
| SCWA Z40, Bond Funds | 233,062,848        | 0           | 21,165,358        | 803,750        | 126,315        | 1,811,797        | 0           | 256,970,068        |
| SCWA Z40 Paygo       | 0                  | 0           | 0                 | 0              | 0              | 0                | 0           | 0                  |
| <b>TOTAL</b>         | <b>233,062,848</b> | <b>0</b>    | <b>21,165,358</b> | <b>803,750</b> | <b>126,315</b> | <b>1,811,797</b> | <b>0</b>    | <b>256,970,068</b> |

# WATER RESOURCES - WATER SUPPLY

## Waterman/Grantline Wholesale Meter Station

Sacramento, CA 95624

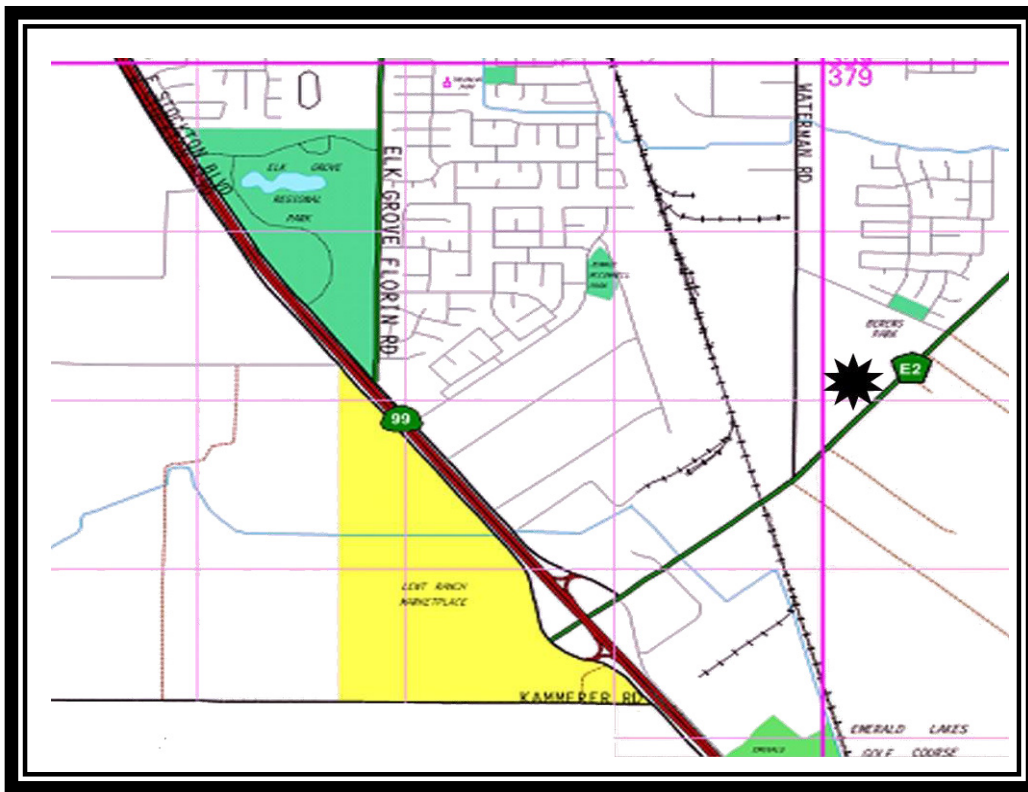
Project #11

Department: Water Resources (SCWA)

Estimated Project Cost: \$310,851

Expected Completion Date: 2016

Funding Sources: SCWA Zone 40



### Project Description:

This project involves the construction of a below grade wholesale water meter station at an existing point of connection between SCWA and Elk Grove Water Service. The location of the proposed meter station is on the new Waterman Road alignment, just North West of its intersection with Grantline Road. An environmental review has not yet been performed. Property or easement acquisition may be required.

# WATER RESOURCES - WATER SUPPLY

## Waterman/Grantline Wholesale Meter Station

| Project Costs           | Prior         | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year    | Total          |
|-------------------------|---------------|-------------|----------|-------------|-------------|-------------|----------------|----------------|
|                         | Years         | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16     |                |                |
|                         | Expenses      | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget         |                |
| Construction Costs      | 0             | 0           | 0        | 0           | 0           | 0           | 210,000        | 210,000        |
| Project Mgmt/Design     | 10,851        | 0           | 0        | 0           | 0           | 0           | 35,000         | 45,851         |
| Construction Inspection | 0             | 0           | 0        | 0           | 0           | 0           | 40,000         | 40,000         |
| Land Acquisition        | 0             | 0           | 0        | 0           | 0           | 0           | 10,000         | 10,000         |
| Misc. Project Costs     | 0             | 0           | 0        | 0           | 0           | 0           | 5,000          | 5,000          |
| <b>TOTAL</b>            | <b>10,851</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>300,000</b> | <b>310,851</b> |

| Funding Sources      | Prior         | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year    | Total          |
|----------------------|---------------|-------------|----------|-------------|-------------|-------------|----------------|----------------|
|                      | Years         | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16     |                |                |
|                      | Expenses      | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget         |                |
| Grant Funding        | 0             | 0           | 0        | 0           | 0           | 0           | 0              | 0              |
| SCWA Z40, Bond Funds | 0             | 0           | 0        | 0           | 0           | 0           | 0              | 0              |
| SCWA Z40 Paygo       | 10,851        | 0           | 0        | 0           | 0           | 0           | 300,000        | 310,851        |
| <b>TOTAL</b>         | <b>10,851</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>300,000</b> | <b>310,851</b> |

## WATER RESOURCES - WATER SUPPLY

### Berrendo Well (New)

Sacramento, CA 95864

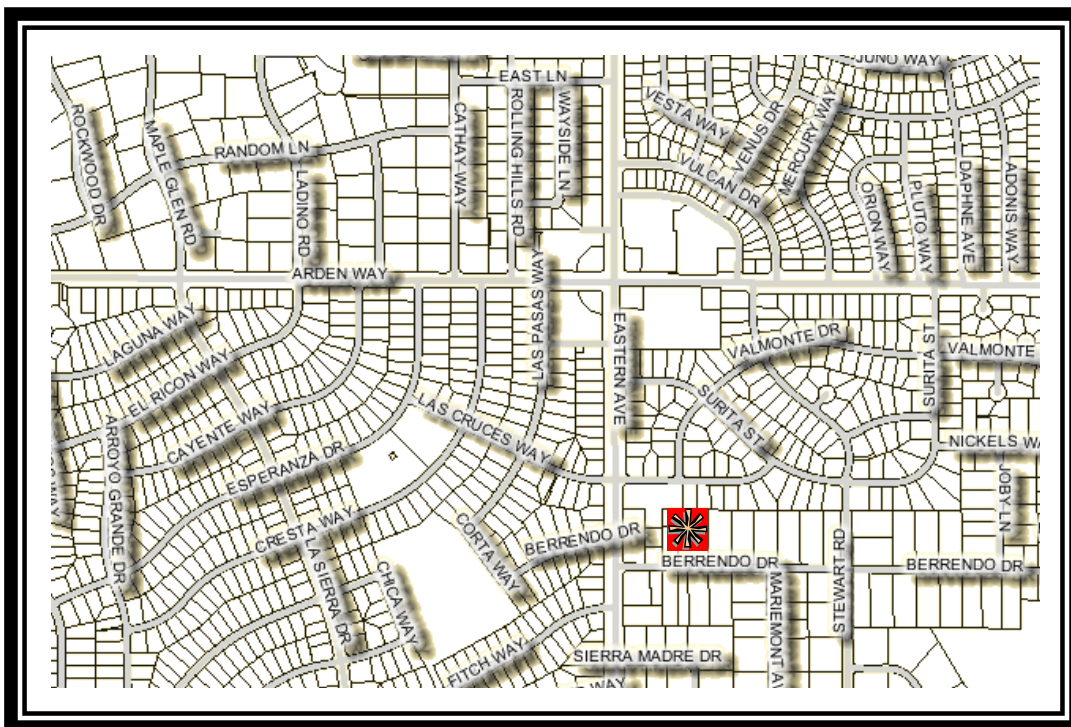
Project #12

Department: Water Resources (SCWA)

Estimated Project Cost: \$547,500

Expected Completion Date: 2012

Funding Sources: SCWA Zone 41



#### Project Description:

The Arden Park Vista service area was constructed beginning in the post WWII 1940's. The north eastern tip of the service area, located east of Eastern Boulevard and south of Arden Way, consists of one well (Stewart Well) located on Stewart Road. In the spring of 2011 the Stewart Well failed requiring major rehabilitation. During the assessment of the well, it was found the geology had changed and the well can only safely produce about 1/3 the original capacity. The Berrendo Well will bridge the production gap between the previous and current capacity of Stewart Well.

The Berrendo Well will include domestic potable water well; chemical feed system, electrical panels, SCADA system, and distribution main pipe connecting the well to an existing distribution main pipe to the north. The well site will aesthetically blend with the existing area. The entrance will be directly off Berrendo Avenue with its own driveway so as not to interfere with the



## WATER RESOURCES - WATER SUPPLY

Church's ability to maintain parking lot security. Parking lot restoration will at minimum adjust curbs to assure Church traffic flow is maintained.

### 2011-12 Berrendo Well (New)

| Project Costs           | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Construction Costs      | 0        | 0           | 377,500        | 0           | 0           | 0           | 0           | 377,500        |
| Project Mgmt/Design     | 0        | 0           | 75,000         | 0           | 0           | 0           | 0           | 75,000         |
| Construction Inspection | 0        | 0           | 15,000         | 0           | 0           | 0           | 0           | 15,000         |
| Land Acquisition        | 0        |             | 0              | 0           | 0           | 0           | 0           | 0              |
| Misc. Project Costs     | 0        | 0           | 80,000         | 0           | 0           | 0           | 0           | 80,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>547,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>547,500</b> |

| Funding Sources      | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|----------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                      | Years    | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                |
|                      | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Grant Funding        | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z41, Bond Funds | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z41 Paygo       | 0        | 0           | 547,500        | 0           | 0           | 0           | 0           | 547,500        |
| <b>TOTAL</b>         | <b>0</b> | <b>0</b>    | <b>547,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>547,500</b> |

# WATER RESOURCES - WATER SUPPLY

## Fluoridation Project

All Zone 41 Service Areas

Project # 13

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$8,543,934

**Expected Completion Date:** 2013

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The State of California passed a law incentivizing water purveyors to fluoridate the public water systems by requiring fluoridation equipment will be installed if grant funding is available. The Sacramento chapter of First 5 offered SCWA a grant to install fluoridation equipment and two years of operations and maintenance costs. SCWA applied for and received the grant and entered into an agreement to install the equipment and fluoridate the water systems for a period of 22-years.

The effected service areas are Hood, Walnut Grove, Arden Park, NSA, CSA, and SSA.

| Project Costs           | Prior          | Fiscal Year |                  | Fiscal Year      | Fiscal Year | Fiscal Year | Fiscal Year | Total            |
|-------------------------|----------------|-------------|------------------|------------------|-------------|-------------|-------------|------------------|
|                         | Years          | 2011-12     | 2012-13          | 2013-14          | 2014-15     | 2015-16     |             |                  |
|                         | Expenses       | PY Rollover | Budget           | Budget           | Budget      | Budget      | Budget      |                  |
| Labor (fully loaded)    | 0              | 0           | 72,553           | 72,559           | 0           | 0           | 0           | 145,112          |
| Purchased Materials     | 0              | 0           | 0                | 0                | 0           | 0           | 0           | 0                |
| Construction Costs      | 0              | 0           | 3,339,956        | 3,339,956        | 0           | 0           | 0           | 6,679,912        |
| Project Mgmt/Design     | 688,977        | 0           | 124,000          | 124,000          | 0           | 0           | 0           | 936,977          |
| Construction Inspection | 0              | 0           | 369,564          | 369,564          | 0           | 0           | 0           | 739,128          |
| Land Acquisition        | 0              | 0           | 0                | 0                | 0           | 0           | 0           | 0                |
| Misc. Project Costs     | 42,805         | 0           | 0                | 0                | 0           | 0           | 0           | 42,805           |
| <b>TOTAL</b>            | <b>731,782</b> | <b>0</b>    | <b>3,906,073</b> | <b>3,906,079</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>8,543,934</b> |

| Funding Sources | Prior          | Fiscal Year |                  | Fiscal Year      | Fiscal Year | Fiscal Year | Fiscal Year | Total            |
|-----------------|----------------|-------------|------------------|------------------|-------------|-------------|-------------|------------------|
|                 | Years          | 2011-12     | 2012-13          | 2013-14          | 2014-15     | 2015-16     |             |                  |
|                 | Expenses       | PY Rollover | Budget           | Budget           | Budget      | Budget      | Budget      |                  |
| Grant Funding   | 731,782        | 0           | 3,906,073        | 3,906,079        | 0           | 0           | 0           | 8,543,934        |
| SCWA Z41 Paygo  | 0              | 0           | 0                | 0                | 0           | 0           | 0           | 0                |
| <b>TOTAL</b>    | <b>731,782</b> | <b>0</b>    | <b>3,906,073</b> | <b>3,906,079</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>8,543,934</b> |

## WATER RESOURCES - WATER SUPPLY

### Hood Manganese Treatment Facilities

All Zone 41 Service Areas

Project # 14

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$700,000

**Expected Completion Date:** 2015

**Funding Sources:** Zone 41  
Grant Funding (not procured at this time)

#### **Project Description:**

The township of Hood has an older water system supplied by two wells. The water quality of the wells has elevated levels of manganese causing aesthetic challenges. Even though manganese is not a health issue, the State of California now requires the constituent to be addressed for new water systems and requires existing systems to create a plan to address the issue. SCWA has and continues to apply for grant funding for a WTP.

Until a grant is available, this project is being constructed in phases over several years by tying needed improvements to other related projects such as plant site plumbing improvements under the annual Pipe Replacement CIP. The following schedule is rough and may be adjusted depending on opportunities:

- 2010-11 **On site plumbing** reconfiguration (other needed work: Distribution main replacement and onsite replumbing due to pipe failures)
- 2011-12 **Concrete work** – equipment pads (other needed work: fluoride, chlorine, upgrade work)
- 2012-13 **Clear Well Expansion** for filter backwash (this work is needed anyway to meet system demands)
- 2013-14 **Electrical Upgrades** for the treatment process (electrical upgrades are needed for this facility and have been postponed to mesh with this project)
- 2014-15 **Filter and Backwash Tank** installation. This is the final phase of the project and will have the most cost. Hopefully there will be grant funding or low interest loan available.

It anticipated if SCWA receives grant funding, it will be the next Fiscal Year after rejection of the grant application, in this case FY 2012-2013. This cost will continue slide to the next Fiscal Year until; 1) the grant is approved, or 2) the project is complete.

# WATER RESOURCES - WATER SUPPLY

## Hood Manganese Treatment Facilities

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------|----------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14        | 2014-15     | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget   | Budget         | Budget      | Budget      | Budget      |                |
| Labor (fully loaded)    | 0        | 0           | 0        | 20,000         | 0           | 0           | 0           | 20,000         |
| Purchased Materials     | 0        | 0           | 0        | 10,000         | 0           | 0           | 0           | 10,000         |
| Construction Costs      | 0        | 0           | 0        | 600,000        | 0           | 0           | 0           | 600,000        |
| Project Mgmt/Design     | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| Construction Inspection | 0        | 0           | 0        | 30,000         | 0           | 0           | 0           | 30,000         |
| Land Acquisition        | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| Misc. Project Costs     | 0        | 0           | 0        | 40,000         | 0           | 0           | 0           | 40,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>700,000</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>700,000</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------|-------------|----------|----------------|-------------|-------------|-------------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14        | 2014-15     | 2015-16     |             |                |
|                 | Expenses | PY Rollover | Budget   | Budget         | Budget      | Budget      | Budget      |                |
| Grant Funding   | 0        | 0           | 0        | 700,000        | 0           | 0           | 0           | 700,000        |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>700,000</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>700,000</b> |

# WATER RESOURCES - WATER SUPPLY

## PIPE REPLACEMENT 2011-12

All Zone 41 Service Areas

Project #15

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$190,000

**Expected Completion Date:** 2012

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains hundreds of miles of water transmission/distribution main pipes throughout its ten service areas. On occasion a pipe will fail due to age, manufacturer defect, damaged by excavation, corrosion, or poor installation. If these pipes are replaced with a new pipe (full “stick”) they are considered a CIP. Because the location and number of failures is unknown, an annual CIP is created to track these costs.

These pipe replacements require SCWA crews to cut and remove the pavement and old pipe; place a new pipe; and backfill and compact the soils. A contractor is hired to perform the pavement replacement. In some cases inspection is performed by County forces and/or City forces.

**Pipe Replacement 2011-12**

| Project Costs           | Prior<br>Years<br>Expenses | Fiscal Year<br>2011-12<br>PY Rollover | Fiscal Year<br>2011-12<br>Budget | Fiscal Year<br>2012-13<br>Budget | Fiscal Year<br>2013-14<br>Budget | Fiscal Year<br>2014-15<br>Budget | Fiscal Year<br>2015-16<br>Budget | Total          |
|-------------------------|----------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|
| Labor (fully loaded)    | 0                          | 0                                     | 100,000                          | 0                                | 0                                | 0                                | 0                                | 100,000        |
| Purchased Materials     | 0                          | 0                                     | 50,000                           | 0                                | 0                                | 0                                | 0                                | 50,000         |
| Construction Costs      | 0                          | 0                                     | 30,000                           | 0                                | 0                                | 0                                | 0                                | 30,000         |
| Project Mgmt/Design     | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0                                | 0              |
| Construction Inspection | 0                          | 0                                     | 5,000                            | 0                                | 0                                | 0                                | 0                                | 5,000          |
| Land Acquisition        | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0                                | 0              |
| Misc. Project Costs     | 0                          | 0                                     | 5,000                            | 0                                | 0                                | 0                                | 0                                | 5,000          |
| <b>TOTAL</b>            | <b>0</b>                   | <b>0</b>                              | <b>190,000</b>                   | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>190,000</b> |

| Funding Sources | Prior<br>Years<br>Expenses | Fiscal Year<br>2011-12<br>PY Rollover | Fiscal Year<br>2011-12<br>Budget | Fiscal Year<br>2012-13<br>Budget | Fiscal Year<br>2013-14<br>Budget | Fiscal Year<br>2014-15<br>Budget | Fiscal Year<br>2015-16<br>Budget | Total          |
|-----------------|----------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|
| Grant Funding   | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0                                | 0              |
| SCWA Z41 Paygo  | 0                          | 0                                     | 190,000                          | 0                                | 0                                | 0                                | 0                                | 190,000        |
| <b>TOTAL</b>    | <b>0</b>                   | <b>0</b>                              | <b>190,000</b>                   | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>190,000</b> |

# WATER RESOURCES - WATER SUPPLY

## PIPE REPLACEMENT 2012-13

All Zone 41 Service Areas

Project #16

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$192,000

**Expected Completion Date:** 2013

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains hundreds of miles of water transmission/distribution main pipes throughout its ten service areas. On occasion a pipe will fail due to age, manufacturer defect, damaged by excavation, corrosion, or poor installation. If these pipes are replaced with a new pipe (full “stick”) they are considered a CIP. Because the location and number of failures is unknown, an annual CIP is created to track these costs.

These pipe replacements require SCWA crews to cut and remove the pavement and old pipe; place a new pipe; and backfill and compact the soils. A contractor is hired to perform the pavement replacement. In some cases inspection is performed by County forces and/or City forces.

**Pipe Replacement 2012-13**

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------|----------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14        | 2014-15     | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget   | Budget         | Budget      | Budget      | Budget      |                |
| Labor (fully loaded)    | 0        | 0           | 0        | 100,000        | 0           | 0           | 0           | 100,000        |
| Purchased Materials     | 0        | 0           | 0        | 52,000         | 0           | 0           | 0           | 52,000         |
| Construction Costs      | 0        | 0           | 0        | 30,000         | 0           | 0           | 0           | 30,000         |
| Project Mgmt/Design     | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| Construction Inspection | 0        | 0           | 0        | 5,000          | 0           | 0           | 0           | 5,000          |
| Land Acquisition        | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| Misc. Project Costs     | 0        | 0           | 0        | 5,000          | 0           | 0           | 0           | 5,000          |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>192,000</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>192,000</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------|-------------|----------|----------------|-------------|-------------|-------------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14        | 2014-15     | 2015-16     |             |                |
|                 | Expenses | PY Rollover | Budget   | Budget         | Budget      | Budget      | Budget      |                |
| Grant Funding   | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 192,000        | 0           | 0           | 0           | 192,000        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>192,000</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>192,000</b> |

# WATER RESOURCES - WATER SUPPLY

## PIPE REPLACEMENT 2013-14

All Zone 41 Service Areas

Project #17

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$194,000

**Expected Completion Date:** 2014

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains hundreds of miles of water transmission/distribution main pipes throughout its ten service areas. On occasion a pipe will fail due to age, manufacturer defect, damaged by excavation, corrosion, or poor installation. If these pipes are replaced with a new pipe (full “stick”) they are considered a CIP. Because the location and number of failures is unknown, an annual CIP is created to track these costs.

These pipe replacements require SCWA crews to cut and remove the pavement and old pipe; place a new pipe; and backfill and compact the soils. A contractor is hired to perform the pavement replacement. In some cases inspection is performed by County forces and/or City forces.

**Pipe Replacement 2013-14**

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year    | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------|-------------|----------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15        | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget         | Budget      | Budget      |                |
| Labor (fully loaded)    | 0        | 0           | 0        | 0           | 102,000        | 0           | 0           | 102,000        |
| Purchased Materials     | 0        | 0           | 0        | 0           | 52,000         | 0           | 0           | 52,000         |
| Construction Costs      | 0        | 0           | 0        | 0           | 30,000         | 0           | 0           | 30,000         |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| Construction Inspection | 0        | 0           | 0        | 0           | 5,000          | 0           | 0           | 5,000          |
| Land Acquisition        | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 5,000          | 0           | 0           | 5,000          |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>194,000</b> | <b>0</b>    | <b>0</b>    | <b>194,000</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year    | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------|-------------|----------|-------------|----------------|-------------|-------------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15        | 2015-16     |             |                |
|                 | Expenses | PY Rollover | Budget   | Budget      | Budget         | Budget      | Budget      |                |
| Grant Funding   | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0           | 194,000        | 0           | 0           | 194,000        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>194,000</b> | <b>0</b>    | <b>0</b>    | <b>194,000</b> |

# WATER RESOURCES - WATER SUPPLY

## PIPE REPLACEMENT 2014-15

All Zone 41 Service Areas

Project #18

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$201,000

**Expected Completion Date:** 2015

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains hundreds of miles of water transmission/distribution main pipes throughout its ten service areas. On occasion a pipe will fail due to age, manufacturer defect, damaged by excavation, corrosion, or poor installation. If these pipes are replaced with a new pipe (full “stick”) they are considered a CIP. Because the location and number of failures is unknown, an annual CIP is created to track these costs.

These pipe replacements require SCWA crews to cut and remove the pavement and old pipe; place a new pipe; and backfill and compact the soils. A contractor is hired to perform the pavement replacement. In some cases inspection is performed by County forces and/or City forces.

**Pipe Replacement 2014-15**

| Project Costs           | Prior<br>Years<br>Expenses | Fiscal Year<br>2011-12<br>PY Rollover | Fiscal Year<br>2012-13<br>Budget | Fiscal Year<br>2013-14<br>Budget | Fiscal Year<br>2014-15<br>Budget | Fiscal Year<br>2015-16<br>Budget | Total          |
|-------------------------|----------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|
| Labor (fully loaded)    | 0                          | 0                                     | 0                                | 0                                | 0                                | 104,000                          | 104,000        |
| Purchased Materials     | 0                          | 0                                     | 0                                | 0                                | 0                                | 57,000                           | 57,000         |
| Construction Costs      | 0                          | 0                                     | 0                                | 0                                | 0                                | 30,000                           | 30,000         |
| Project Mgmt/Design     | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0              |
| Construction Inspection | 0                          | 0                                     | 0                                | 0                                | 0                                | 5,000                            | 5,000          |
| Land Acquisition        | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0              |
| Misc. Project Costs     | 0                          | 0                                     | 0                                | 0                                | 0                                | 5,000                            | 5,000          |
| <b>TOTAL</b>            | <b>0</b>                   | <b>0</b>                              | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>201,000</b>                   | <b>201,000</b> |

| Funding Sources | Prior<br>Years<br>Expenses | Fiscal Year<br>2011-12<br>PY Rollover | Fiscal Year<br>2012-13<br>Budget | Fiscal Year<br>2013-14<br>Budget | Fiscal Year<br>2014-15<br>Budget | Fiscal Year<br>2015-16<br>Budget | Total          |
|-----------------|----------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|
| Grant Funding   | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0              |
| SCWA Z41 Paygo  | 0                          | 0                                     | 0                                | 0                                | 0                                | 201,000                          | 201,000        |
| <b>TOTAL</b>    | <b>0</b>                   | <b>0</b>                              | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>201,000</b>                   | <b>201,000</b> |



# WATER RESOURCES - WATER SUPPLY

## PIPE REPLACEMENT 2015-16

All Zone 41 Service Areas

Project #19

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$208,000

**Expected Completion Date:** 2016

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains hundreds of miles of water transmission/distribution main pipes throughout its ten service areas. On occasion a pipe will fail due to age, manufacturer defect, damaged by excavation, corrosion, or poor installation. If these pipes are replaced with a new pipe (full “stick”) they are considered a CIP. Because the location and number of failures is unknown, an annual CIP is created to track these costs.

These pipe replacements require SCWA crews to cut and remove the pavement and old pipe; place a new pipe; and backfill and compact the soils. A contractor is hired to perform the pavement replacement. In some cases inspection is performed by County forces and/or City forces.

| Project Costs           | Prior<br>Years<br>Expenses | Fiscal Year<br>2011-12<br>PY Rollover | Fiscal Year<br>2012-13<br>Budget | Fiscal Year<br>2013-14<br>Budget | Fiscal Year<br>2014-15<br>Budget | Fiscal Year<br>2015-16<br>Budget | Total          |
|-------------------------|----------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|
| Labor (fully loaded)    | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 111,000        |
| Purchased Materials     | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 57,000         |
| Construction Costs      | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 30,000         |
| Project Mgmt/Design     | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0              |
| Construction Inspection | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 5,000          |
| Land Acquisition        | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0              |
| Misc. Project Costs     | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 5,000          |
| <b>TOTAL</b>            | <b>0</b>                   | <b>0</b>                              | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>208,000</b> |

| Funding Sources | Prior<br>Years<br>Expenses | Fiscal Year<br>2011-12<br>PY Rollover | Fiscal Year<br>2012-13<br>Budget | Fiscal Year<br>2013-14<br>Budget | Fiscal Year<br>2014-15<br>Budget | Fiscal Year<br>2015-16<br>Budget | Total          |
|-----------------|----------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------|
| Grant Funding   | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 0              |
| SCWA Z41 Paygo  | 0                          | 0                                     | 0                                | 0                                | 0                                | 0                                | 208,000        |
| <b>TOTAL</b>    | <b>0</b>                   | <b>0</b>                              | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>0</b>                         | <b>208,000</b> |

# WATER RESOURCES - WATER SUPPLY

## SCADA Project

All Zone 41 Service Areas

Project #20

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$831,590 (Z41 only)

**Expected Completion Date:** Early 2012

**Funding Sources:** Zone 41/Zone 40/ and  
Drainage Capital Construction Funds

**Project Description:**

The Sacramento County Water Agency owns and maintains over fifty water wells and eleven water treatment facilities throughout its ten service areas. For efficiency and reliability SCWA employs a Supervisory Control and Data Acquisition (SCADA) system to monitor and automatically control this large amount of water production facilities. The existing SCADA systems has reached beyond its useful age and is failing at regular intervals taking additional labor to constantly correct and placing the reliability of the public water system in a less than desirable level. The newer facilities have become more complex exceeding the abilities of the older SCADA system resulting in a patchwork of equipment and software that is precarious.

This project upgrades all software and the communications system adding reliability and flexibility. The new system is able to be expanded to include many more data points now and into the future allowing staff to provide a finer programming resolution and the ability to monitor additional functions that have historically been “field verified”. The new communications component will all sites to be folded into the system to better manage the systems overall saving costs during times of the years when demands are smaller and not all of the production facilities are needed.

**SCADA Project**

| Project Costs           | Prior          | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                         | Years          | 2011-12     |                | 2012-13     | 2013-14     | 2014-15     | 2015-16     |                |
|                         | Expenses       | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Labor (fully loaded)    | 0              | 0           | 77,952         | 0           | 0           | 0           | 0           | 77,952         |
| Purchased Materials     | 0              | 0           | 148,070        | 0           | 0           | 0           | 0           | 148,070        |
| Construction Costs      | 0              | 0           | 57,600         | 0           | 0           | 0           | 0           | 57,600         |
| Project Mgmt/Design     | 0              | 0           | 156,019        | 0           | 0           | 0           | 0           | 156,019        |
| Construction Inspection | 0              | 0           | 5,760          | 0           | 0           | 0           | 0           | 5,760          |
| Land Acquisition        | 0              | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| Misc. Project Costs     | 386,189        | 0           | 0              | 0           | 0           | 0           | 0           | 386,189        |
| <b>TOTAL</b>            | <b>386,189</b> | <b>0</b>    | <b>445,401</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>831,590</b> |

| Funding Sources | Prior          | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                 | Years          | 2011-12     |                | 2012-13     | 2013-14     | 2014-15     | 2015-16     |                |
|                 | Expenses       | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Grant Funding   | 0              | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z41 Paygo  | 386,189        | 0           | 445,401        | 0           | 0           | 0           | 0           | 831,590        |
| <b>TOTAL</b>    | <b>386,189</b> | <b>0</b>    | <b>445,401</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>831,590</b> |

# WATER RESOURCES - WATER SUPPLY

## Security Upgrades 2013-14

All Zone 41 Service Areas

Project # 21

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$10,000

**Expected Completion Date:** 2014

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

Zone 41 identified security upgrades to many facilities during the vulnerability assessment. Many of these upgrades have been put in place. Others have been deferred until funding or site preparation work is completed. Spreading out these security upgrades to every other years is not ideal but meets funding restrictions. Once the SCADA system upgrade is in place, specifically the radio installations, security upgrades will be more viable for the remote sites allowing these security upgrades to extend beyond those identified in the VA.

**Security Upgrades 2013-14**

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year   | Fiscal Year | Fiscal Year | Total         |
|-------------------------|----------|-------------|----------|-------------|---------------|-------------|-------------|---------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15       | 2015-16     |             |               |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget        | Budget      | Budget      |               |
| Labor (fully loaded)    | 0        | 0           | 0        | 0           | 500           | 0           | 0           | 500           |
| Purchased Materials     | 0        | 0           | 0        | 0           | 0             | 0           | 0           | 0             |
| Construction Costs      | 0        | 0           | 0        | 0           | 9,500         | 0           | 0           | 9,500         |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 0             | 0           | 0           | 0             |
| Construction Inspection | 0        | 0           | 0        | 0           | 0             | 0           | 0           | 0             |
| Land Acquisition        | 0        | 0           | 0        | 0           | 0             | 0           | 0           | 0             |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 0             | 0           | 0           | 0             |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>10,000</b> | <b>0</b>    | <b>0</b>    | <b>10,000</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year   | Fiscal Year | Fiscal Year | Total         |
|-----------------|----------|-------------|----------|-------------|---------------|-------------|-------------|---------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15       | 2015-16     |             |               |
|                 | Expenses | PY Rollover | Budget   | Budget      | Budget        | Budget      | Budget      |               |
| Grant Funding   | 0        | 0           | 0        | 0           | 0             | 0           | 0           | 0             |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0           | 10,000        | 0           | 0           | 10,000        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>10,000</b> | <b>0</b>    | <b>0</b>    | <b>10,000</b> |

# WATER RESOURCES - WATER SUPPLY

## Security Upgrades 2015-16

All Zone 41 Service Areas

Project # 22

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$10,000

**Expected Completion Date:** 2014

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

Zone 41 identified security upgrades to many failciities during the vulnerability assessment. Many of these upgrades have been put in place. Others have been deffered until funding or site preparation work is completed. Spreading out these security upgrades to everyother years is not ideal but meets funding restrictions. Once the SCADA system upgrade is in place, specifically the radio installations, security upgrades will be more viable for the remote sites allowing these security upgrades to extend beyond those identified in the VA.

**Security Upgrades 2015-16**

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year   | Total         |
|-------------------------|----------|-------------|----------|-------------|-------------|-------------|---------------|---------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16     |               |               |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget        |               |
| Labor (fully loaded)    | 0        | 0           | 0        | 0           | 0           | 0           | 500           | 500           |
| Purchased Materials     | 0        | 0           | 0        | 0           | 0           | 0           | 0             | 0             |
| Construction Costs      | 0        | 0           | 0        | 0           | 0           | 0           | 9,500         | 9,500         |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 0           | 0           | 0             | 0             |
| Construction Inspection | 0        | 0           | 0        | 0           | 0           | 0           | 0             | 0             |
| Land Acquisition        | 0        | 0           | 0        | 0           | 0           | 0           | 0             | 0             |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 0           | 0           | 0             | 0             |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>10,000</b> | <b>10,000</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year   | Total         |
|-----------------|----------|-------------|----------|-------------|-------------|-------------|---------------|---------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16     |               |               |
|                 | Expenses | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget        |               |
| Grant Funding   | 0        | 0           | 0        | 0           | 0           | 0           | 0             | 0             |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0           | 0           | 0           | 10,000        | 10,000        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>10,000</b> | <b>10,000</b> |

## WATER RESOURCES - WATER SUPPLY

### WELL UPGRADES/REHABILITATION 2011-12

All Zone 41 Service Areas

Project #23

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$747,500

**Expected Completion Date:** 2012

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains over fifty water wells throughout its ten service areas. Well production levels drop over time due to age, changes in geological formation, drop in water table, pump and motor wear, electrical service deterioration. Typically the pump is completely replaced justifying the classification of a CIP. Because the location and number of all of the facilities needing rehabilitation is unknown, an annual CIP is created to track these costs.

Well rehabilitations are a coordinated affair between the SCWA Water Supply Operations and Maintenance Section (Engineering) and the Water Supply Maintenance and Operation Section (Field Operators). Each of the well rehabilitations is unique and the total needed work is not known until all assessments are performed, sometimes towards the end of the project. These Sections hire a well drilling company to pull the pump and motor in order to assess their condition, and perform a video inspection of the well determining if any down hole work is required in addition to the regular cleaning regime. SCWA selects the correct pump and motor after drawdown is known and assesses the electrical service requirements to assure it is adequate for the new equipment. SCWA staff also assesses the site in general to determine if other work is needed and coordinates other contracts if necessary. In some cases inspection is performed by County forces.

SCWA performs up to ten well rehabilitations per year, depending on time allotted and known performance/condition of the well. Because of the critical nature of supplying virtually all of the water production for the public water systems, this annual project is of the highest priority.

# WATER RESOURCES - WATER SUPPLY

## Well Upgrades/Rehabilitation 2011-12

| Project Costs           | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Labor (fully loaded)    | 0        | 0           | 150,000        | 0           | 0           | 0           | 0           | 150,000        |
| Purchased Materials     | 0        | 0           | 50,000         | 0           | 0           | 0           | 0           | 50,000         |
| Construction Costs      | 0        | 0           | 500,000        | 0           | 0           | 0           | 0           | 500,000        |
| Project Mgmt/Design     | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| Construction Inspection | 0        | 0           | 7,500          | 0           | 0           | 0           | 0           | 7,500          |
| Land Acquisition        | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| Misc. Project Costs     | 0        | 0           | 40,000         | 0           | 0           | 0           | 0           | 40,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>747,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>747,500</b> |

| Funding Sources | Prior    | Fiscal Year |                | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------|-------------|----------------|-------------|-------------|-------------|-------------|----------------|
|                 | Years    | 2011-12     | 2012-13        | 2013-14     | 2014-15     | 2015-16     |             |                |
|                 | Expenses | PY Rollover | Budget         | Budget      | Budget      | Budget      | Budget      |                |
| Grant Funding   | 0        | 0           | 0              | 0           | 0           | 0           | 0           | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 747,500        | 0           | 0           | 0           | 0           | 747,500        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>747,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>747,500</b> |

## WATER RESOURCES - WATER SUPPLY

### WELL UPGRADES/REHABILITATION 2012-13

All Zone 41 Service Areas

Project #24

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$750,500

**Expected Completion Date:** 2013

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains over fifty water wells throughout its ten service areas. Well production levels drop over time due to age, changes in geological formation, drop in water table, pump and motor wear, electrical service deterioration. Typically the pump is completely replaced justifying the classification of a CIP. Because the location and number of all of the facilities needing rehabilitation is unknown, an annual CIP is created to track these costs.

Well rehabilitations are a coordinated affair between the SCWA Water Supply Operations and Maintenance Section (Engineering) and the Water Supply Maintenance and Operation Section (Field Operators). Each of the well rehabilitations is unique and the total needed work is not known until all assessments are performed, sometimes towards the end of the project. These sections hire a well drilling company to pull the pump and motor in order to assess their condition, and perform a video inspection of the well determining if any down hole work is required in addition to the regular cleaning regime. SCWA selects the correct pump and motor after drawdown is known and assesses the electrical service requirements to assure it is adequate for the new equipment. SCWA staff also assesses the site in general to determine if other work is needed and coordinates other contracts if necessary. In some cases inspection is performed by County forces.

SCWA performs up to ten well rehabilitations per year, depending on time allotted and known performance/condition of the well. Because of the critical nature of supplying virtually all of the water production for the public water systems, this annual project is of the highest priority.

# WATER RESOURCES - WATER SUPPLY

## Well Upgrades/Rehabilitation 2012-13

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------|----------------|-------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14        | 2014-15     | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget   | Budget         | Budget      | Budget      | Budget      |                |
| Labor (fully loaded)    | 0        | 0           | 0        | 153,000        | 0           | 0           | 0           | 153,000        |
| Purchased Materials     | 0        | 0           | 0        | 50,000         | 0           | 0           | 0           | 50,000         |
| Construction Costs      | 0        | 0           | 0        | 500,000        | 0           | 0           | 0           | 500,000        |
| Project Mgmt/Design     | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| Construction Inspection | 0        | 0           | 0        | 7,500          | 0           | 0           | 0           | 7,500          |
| Land Acquisition        | 0        | 0           | 0        | 40,000         | 0           | 0           | 0           | 40,000         |
| Misc. Project Costs     | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>750,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>750,500</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year    | Fiscal Year | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------|-------------|----------|----------------|-------------|-------------|-------------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14        | 2014-15     | 2015-16     |             |                |
|                 | Expenses | PY Rollover | Budget   | Budget         | Budget      | Budget      | Budget      |                |
| Grant Funding   | 0        | 0           | 0        | 0              | 0           | 0           | 0           | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 750,500        | 0           | 0           | 0           | 750,500        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>750,500</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>750,500</b> |



## WATER RESOURCES - WATER SUPPLY

### WELL UPGRADES/REHABILITATION 2013-14

All Zone 41 Service Areas

Project #25

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$753,600

**Expected Completion Date:** 2014

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains over fifty water wells throughout its ten service areas. Well production levels drop over time due to age, changes in geological formation, drop in water table, pump and motor wear, electrical service deterioration. Typically the pump is completely replaced justifying the classification of a CIP. Because the location and number of all of the facilities needing rehabilitation is unknown, an annual CIP is created to track these costs.

Well rehabilitations are a coordinated affair between the SCWA Water Supply Operations and Maintenance Section (Engineering) and the Water Supply Maintenance and Operation Section (Field Operators). Each of the well rehabilitations is unique and the total needed work is not known until all assessments are performed, sometimes towards the end of the project. These sections hire a well drilling company to pull the pump and motor in order to assess their condition, and perform a video inspection of the well determining if any down hole work is required in addition to the regular cleaning regime. SCWA selects the correct pump and motor after drawdown is known and assesses the electrical service requirements to assure it is adequate for the new equipment. SCWA staff also assesses the site in general to determine if other work is needed and coordinates other contracts if necessary. In some cases inspection is performed by County forces.

SCWA performs up to ten well rehabilitations per year, depending on time allotted and known performance/condition of the well. Because of the critical nature of supplying virtually all of the water production for the public water systems, this annual project is of the highest priority.

# WATER RESOURCES - WATER SUPPLY

## Well Upgrades/Rehabilitation 2013-14

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year    | Fiscal Year | Fiscal Year | Total          |
|-------------------------|----------|-------------|----------|-------------|----------------|-------------|-------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15        | 2015-16     |             |                |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget         | Budget      | Budget      |                |
| Labor (fully loaded)    | 0        | 0           | 0        | 0           | 156,100        | 0           | 0           | 156,100        |
| Purchased Materials     | 0        | 0           | 0        | 0           | 50,000         | 0           | 0           | 50,000         |
| Construction Costs      | 0        | 0           | 0        | 0           | 500,000        | 0           | 0           | 500,000        |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| Construction Inspection | 0        | 0           | 0        | 0           | 7,500          | 0           | 0           | 7,500          |
| Land Acquisition        | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 40,000         | 0           | 0           | 40,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>753,600</b> | <b>0</b>    | <b>0</b>    | <b>753,600</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year    | Fiscal Year | Fiscal Year | Total          |
|-----------------|----------|-------------|----------|-------------|----------------|-------------|-------------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15        | 2015-16     |             |                |
|                 | Expenses | PY Rollover | Budget   | Budget      | Budget         | Budget      | Budget      |                |
| Grant Funding   | 0        | 0           | 0        | 0           | 0              | 0           | 0           | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0           | 753,600        | 0           | 0           | 753,600        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>753,600</b> | <b>0</b>    | <b>0</b>    | <b>753,600</b> |

## WATER RESOURCES - WATER SUPPLY

### WELL UPGRADES/REHABILITATION 2014-15

All Zone 41 Service Areas

Project #26

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$757,500

**Expected Completion Date:** 2015

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains over fifty water wells throughout its ten service areas. Well production levels drop over time due to age, changes in geological formation, drop in water table, pump and motor wear, electrical service deterioration. Typically the pump is completely replaced justifying the classification of a CIP. Because the location and number of all of the facilities needing rehabilitation is unknown, an annual CIP is created to track these costs.

Well rehabilitations are a coordinated affair between the SCWA Water Supply Operations and Maintenance Section (Engineering) and the Water Supply Maintenance and Operation Section (Field Operators). Each of the well rehabilitations is unique and the total needed work is not known until all assessments are performed, sometimes towards the end of the project. These sections hire a well drilling company to pull the pump and motor in order to assess their condition, and perform a video inspection of the well determining if any down hole work is required in addition to the regular cleaning regime. SCWA selects the correct pump and motor after drawdown is known and assesses the electrical service requirements to assure it is adequate for the new equipment. SCWA staff also assesses the site in general to determine if other work is needed and coordinates other contracts if necessary. In some cases inspection is performed by County forces.

SCWA performs up to ten well rehabilitations per year, depending on time allotted and known performance/condition of the well. Because of the critical nature of supplying virtually all of the water production for the public water systems, this annual project is of the highest priority.

# WATER RESOURCES - WATER SUPPLY

## Well Upgrades/Rehabilitation 2014-15

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year    |          |                |
|-------------------------|----------|-------------|----------|-------------|-------------|-------------|----------------|----------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2012-13     | 2013-14     | 2014-15     | 2015-16        |          |                |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget         | Budget   | Total          |
| Labor (fully loaded)    | 0        | 0           | 0        | 0           | 0           | 0           | 160,000        | 0        | 160,000        |
| Purchased Materials     | 0        | 0           | 0        | 0           | 0           | 0           | 50,000         | 0        | 50,000         |
| Construction Costs      | 0        | 0           | 0        | 0           | 0           | 0           | 500,000        | 0        | 500,000        |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 0           | 0           | 0              | 0        | 0              |
| Construction Inspection | 0        | 0           | 0        | 0           | 0           | 0           | 7,500          | 0        | 7,500          |
| Land Acquisition        | 0        | 0           | 0        | 0           | 0           | 0           | 0              | 0        | 0              |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 0           | 0           | 40,000         | 0        | 40,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>757,500</b> | <b>0</b> | <b>757,500</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year    |          |                |
|-----------------|----------|-------------|----------|-------------|-------------|-------------|----------------|----------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2012-13     | 2013-14     | 2014-15     | 2015-16        |          |                |
|                 | Expenses | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget         | Budget   | Total          |
| Grant Funding   | 0        | 0           | 0        | 0           | 0           | 0           | 0              | 0        | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0           | 0           | 0           | 757,500        | 0        | 757,500        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>757,500</b> | <b>0</b> | <b>757,500</b> |

## WATER RESOURCES - WATER SUPPLY

### WELL UPGRADES/REHABILITATION 2015-16

All Zone 41 Service Areas

Project #27

**Department:** Water Resources (SCWA)

**Estimated Project Cost:** \$760,800

**Expected Completion Date:** 2016

**Funding Sources:** Zone 41 Capital Construction Fund

**Project Description:**

The Sacramento County Water Agency owns and maintains over fifty water wells throughout its ten service areas. Well production levels drop over time due to age, changes in geological formation, drop in water table, pump and motor wear, electrical service deterioration. Typically the pump is completely replaced justifying the classification of a CIP. Because the location and number of all of the facilities needing rehabilitation is unknown, an annual CIP is created to track these costs.

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SCWA performs up to ten well rehabilitations per year, depending on time allotted and known performance/condition of the well. Because of the critical nature of supplying virtually all of the water production for the public water systems, this annual project is of the highest priority.

# WATER RESOURCES - WATER SUPPLY

## Well Upgrades/Rehabilitation 2015-16

| Project Costs           | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year    | Total          |
|-------------------------|----------|-------------|----------|-------------|-------------|-------------|----------------|----------------|
|                         | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16     |                |                |
|                         | Expenses | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget         |                |
| Labor (fully loaded)    | 0        | 0           | 0        | 0           | 0           | 0           | 163,200        | 163,200        |
| Purchased Materials     | 0        | 0           | 0        | 0           | 0           | 0           | 50,000         | 50,000         |
| Construction Costs      | 0        | 0           | 0        | 0           | 0           | 0           | 500,000        | 500,000        |
| Project Mgmt/Design     | 0        | 0           | 0        | 0           | 0           | 0           | 0              | 0              |
| Construction Inspection | 0        | 0           | 0        | 0           | 0           | 0           | 7,600          | 7,600          |
| Land Acquisition        | 0        | 0           | 0        | 0           | 0           | 0           | 0              | 0              |
| Misc. Project Costs     | 0        | 0           | 0        | 0           | 0           | 0           | 40,000         | 40,000         |
| <b>TOTAL</b>            | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>760,800</b> | <b>760,800</b> |

| Funding Sources | Prior    | Fiscal Year |          | Fiscal Year | Fiscal Year | Fiscal Year | Fiscal Year    | Total          |
|-----------------|----------|-------------|----------|-------------|-------------|-------------|----------------|----------------|
|                 | Years    | 2011-12     | 2012-13  | 2013-14     | 2014-15     | 2015-16     |                |                |
|                 | Expenses | PY Rollover | Budget   | Budget      | Budget      | Budget      | Budget         |                |
| Grant Funding   | 0        | 0           | 0        | 0           | 0           | 0           | 0              | 0              |
| SCWA Z41 Paygo  | 0        | 0           | 0        | 0           | 0           | 0           | 760,800        | 760,800        |
| <b>TOTAL</b>    | <b>0</b> | <b>0</b>    | <b>0</b> | <b>0</b>    | <b>0</b>    | <b>0</b>    | <b>760,800</b> | <b>760,800</b> |