



HETCH HETCHY
WATER SYSTEM IMPROVEMENT PROGRAM



QUARTERLY REPORT

Local Projects

Q2 FY 2011 | 2012

October 2, 2011 — December 24, 2011

Rebuilding Today for a Better Tomorrow

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Quarterly Report - Q2 FY2011/2012

Water System Improvement Program - Local Projects

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1. PROGRAM DESCRIPTION

The Water System Improvement Program (WSIP) is a \$4.6 billion dollar, multi-year capital program to upgrade the City of San Francisco's regional and local drinking water systems. The program will deliver improvements that enhance the City's ability to provide reliable, affordable, high quality drinking water to its 26 wholesale customers and regional retail customers in Alameda, Santa Clara, and San Mateo Counties, and to 800,000 retail customers in San Francisco, in an environmentally sustainable manner. The WSIP is structured to cost-effectively meet water quality requirements, improve seismic and delivery reliability, and achieve water supply goals.

Built in the early to mid-1900s, many components of the water system are nearing the end of their working life, with crucial facilities crossing or in close proximity to three major earthquake faults. The San Francisco Public Utilities Commission (SFPUC) initiated the WSIP to repair, replace, and seismically upgrade the system's deteriorating pipelines, tunnels, dams, reservoirs, pump stations, storage tanks, and treatment facilities.

The program consists of 35 local projects located within San Francisco and 46 regional projects spread over seven different counties from the Sierra foothills to San Francisco. Local projects only benefit San Francisco residents whereas regional projects benefit both City residents and the 26 wholesale agencies that receive water from the SFPUC. The management of local projects is divided into 4 sub-programs - Reservoirs, Pump Stations / Tanks, Pipelines / Valves, and Miscellaneous.

The Local program originally included local water supply projects. These projects provide access to groundwater supplies for the potable

system, deliver recycled water supplies for non-potable uses, and address water quality and water level issues at Lake Merced. The management and implementation of the five (5) local water supply projects was transferred from the WSIP to the Water Enterprise Capital Improvement Program (CIP) as of July 1, 2011.

The WSIP is funded through the issuance of revenue bonds. Local Measures A and E, which were approved by San Francisco voters in November 2002, allowed for the financing of improvements to the City's water system using revenue bonds and/or other forms of revenue financing. Increases in the water rates of retail and wholesale customers will be used to pay back the debt service on the bonds.

The program budget and schedule were originally adopted by the San Francisco Public Utilities Commission on March 1, 2003. The program at the time was referred to as the Capital Improvement Program (CIP). The scope of the CIP was changed significantly following the adoption of Levels of Service (LOS) goals in early 2005. The program changes were so substantial that the program was renamed the WSIP and a new program budget and schedule were adopted on November 29, 2005. Since the scope of the 2005 Revised WSIP is in general representative of the program being implemented today, the 2005 budget and schedule are considered the "Baseline Budget and Schedule."

Subsequently, the WSIP Baseline Budget and Schedule were revised in 2007, 2009 and 2011, and they were approved by the San Francisco Public Utilities Commission on February 26, 2008, July 28, 2009, and July 12, 2011, respectively. Refer to Appendix A for a scope description of all the local projects included in the WSIP.

| Program Revision | Commission Approval | Budget (\$Million) | Schedule(*) |
|------------------------|---------------------|--------------------|-------------|
| 2003 (Original) | March 1, 2003 | \$3,628 | 03/15/16 |
| 2005 (Baseline) | November 29, 2005 | \$4,343 | 06/30/14 |
| 2007 (Revised) | February 26, 2008 | \$4,392 | 12/18/14 |
| 2009 (Revised) | July 28, 2009 | \$4,586 | 12/04/15 |
| 2011 (Latest Approved) | July 12, 2011 | \$4,586 | 07/29/16 |

* Final Program Completion Date

2. PROGRAM STATUS

This second (2nd) Quarterly Report for Fiscal Year (FY) 2011-2012 presents the progress made on the WSIP local projects between October 2, 2011 and December 24, 2011. The program’s schedule and budget were last approved by the San Francisco Public Utilities Commission (SFPUC or Commission) on July 12, 2001. The progress made on the regional projects of the WSIP is presented in a separate quarterly report.

Figure 2.1 shows the total Approved Budget for the local projects remaining in each phase of the program as of December 24, 2011. The number of projects currently active in each phase is shown in parenthesis.

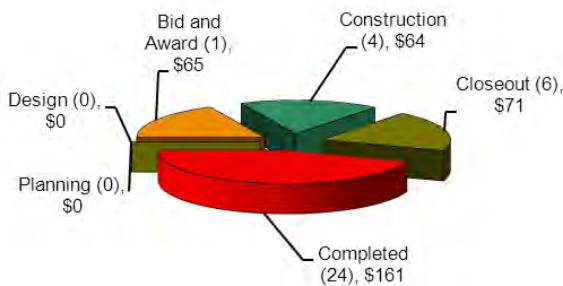


Figure 2.1 Total Approved Budget for Projects Active in Each Phase (\$Million)

Figure 2.2 shows the number of local projects in the following stages of the program as of December 24, 2011: Pre-construction, Construction, and Post-construction.

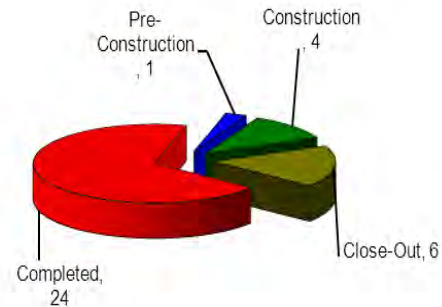


Figure 2.2 Number of Projects in Pre-construction, Construction, and Post-construction

Figure 2.3 summarizes the environmental review and permitting status of the WSIP 35 local projects as of December 24, 2011.

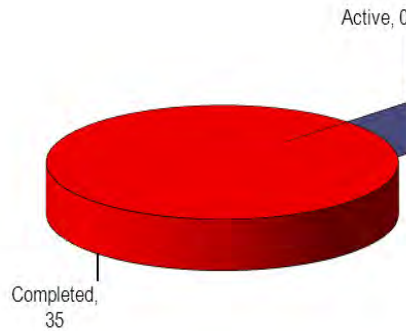


Figure 2.3 Program Environmental and Permitting Status

3. PROGRAM COST SUMMARY

Table 3.1 provides an overall program-level cost summary of the WSIP Local Program. It shows the Expenditures to Date; the 2005 Baseline, 2011 Approved, Current Approved and Q2/FY11-12 Forecasted Budgets; and the Cost Variance between the Current Approved and Forecasted Budgets.

The total Current Approved WSIP Budget (including Regional and Local Programs, Local Water Supply Projects, Program Management Reserve, and Financing Costs) is \$4,586 million and the currently Forecasted Cost at completion is \$4,596 million (\$10.6 million over the Current Approved Budget). The Current Approved WSIP Budget for the Local Improvement Projects is \$361 million and the currently Forecasted Cost at completion is \$359 million (\$1.3 million under the Current Approved Budget). The Current Approved WSIP Budget for the Regional Program is \$3,326 million and the currently Forecasted Cost at completion is \$3,338 million (\$12.0 million over the Current

Approved Budget). Refer to Appendix B for a graphical representation of how the WSIP budget and actual expenditures have changed over time.

Table 3.2 provides the status of construction contingencies. For each sub-program, it shows the 2011 Approved Contingency; the Current Approved Contingency; the Q2/FY11-12 Forecasted Change Orders; the Q2/FY11-12 Forecasted Trends; and the Q2/FY11-12 Forecasted Remaining Contingency. As of December 24, 2011, the Total Forecasted Remaining Contingency is \$13.3 million.

Table 3.1 Program Cost Summary

| Cost Categories | Expenditures To Date (\$ Million) (A) | 2005 Baseline Budget (\$ Million) (B) | 2011 Approved Budget (\$ Million) (C) | Current ⁽⁵⁾ Approved Budget (\$ Million) (D) | Q2/FY11-12 Forecasted Cost (\$ Million) (E) | Cost Variance (\$ Million) (F = D - E) |
|--|--|--|--|--|--|---|
| Local Improvement Projects | \$281 | \$383 | \$360.6 | \$360.6 | \$359.3 | \$1.3 |
| Construction Cost ⁽¹⁾ | \$199 | \$289 | \$264.2 | \$264.2 | \$264.0 | \$0.2 |
| Program Delivery Cost ⁽²⁾ | \$81 | \$91 | \$95.4 | \$95.4 | \$94.2 | \$1.1 |
| Other Costs ⁽³⁾ | \$1 | \$3 | \$1.0 | \$1.0 | \$1.0 | \$0.0 |
| Regional Subtotal | \$1,609 | \$3,407 | \$3,310.5 | \$3,326.3 | \$3,338.2 | (\$12.0) |
| Regional and Local Total | \$1,890 | \$3,791 | \$3,671.1 | \$3,686.9 | \$3,697.5 | (\$10.6) |
| Local Water Supply Projects⁽⁴⁾ | \$30 | - | \$281.3 | \$281.3 | \$281.3 | \$0.0 |
| Program Management Reserve | - | - | \$161.4 | \$145.7 | \$145.7 | \$0.0 |
| Finance | - | \$552 | \$471.7 | \$471.7 | \$471.7 | \$0.0 |
| PROGRAM TOTAL | \$1,920 | \$4,343 | \$4,585.6 | \$4,585.6 | \$4,596.2 | (\$10.6) |

Notes:

- Construction Cost** includes the Construction Base Bid, Construction Contingency and owner-provided equipment/material.
- Delivery Cost** includes program and project management, planning, environmental (CEQA, permitting, construction compliance), design, construction management, and engineering support during construction.
- Other Costs** include environmental mitigation, art enrichment, security Improvements and real estate expenses.
- Local Water Supply Projects managed as part of the Water Enterprise Capital Improvement Program (CIP) are (1) Lake Merced Water Level Restoration, (2) San Francisco Groundwater Supply, (3) San Francisco Westside Recycled Water, (4) Harding Park Recycled Water, and (5) San Francisco Eastside Recycled Water.
- The budget and schedule approved as part of the June 2011 Revised WSIP, plus any additional budget and schedule changes approved by the Commission as part of additional contingencies on construction contracts.

Table 3.2 Status of Construction Contingency

| Sub Program | 2011 Approved Contingency (\$ Million) (A) | Current Approved Contingency (\$ Million) (B) | Q2/FY11-12 Forecasted Change Orders (\$ Million) (C) | Q2/FY11-12 Forecasted Trends (\$ Million) (D) | Q2/FY11-12 Forecasted Remaining Contingency (\$ Million) (E = B-C-D) |
|-----------------------|---|--|---|--|---|
| Reservoirs | \$9.62 | \$9.62 | - | - | \$9.62 |
| Pump Stations / Tanks | \$6.96 | \$6.96 | \$1.65 | \$2.21 | \$3.10 |
| Pipelines / Valves | \$0.55 | \$0.55 | - | - | \$0.55 |
| Miscellaneous | \$0.01 | \$0.01 | - | - | \$0.01 |
| Local Total | \$17.14 | \$17.14 | \$1.65 | \$2.21 | \$13.28 |

Notes:

- A. Contingency included in June 2011 Revised WSIP.
- B. Contingency included in June 2011 Revised WSIP and any contingency approved by the Commission thereafter.
- C. Forecasted Change Orders include Approved, Pending, and Potential Change Orders.
 - Approved Change Orders are changes that have received all required approvals, including that of the City Controller.
 - Pending Change Orders are changes that have been negotiated and approved by the SFPUC but have to be approved by the City Controller.
 - Potential Change Orders are changes that have been requested and entered into CMIS but are still being negotiated.
- D. Trends are any expected impact that the CM team believes has a high probability of becoming a change but are yet to be entered into CMIS as a Potential Change.

4. PROGRAM SCHEDULE SUMMARY

Figure 4.1 and Table 4.1 compare the 2005 Baseline, 2011 Approved and Q2/FY11-12 Forecasted Schedules for the WSIP Local Program. Refer to the “Cost and Schedule Status” notes in Section 5 for the criteria associated with the three color-coded Forecast Status levels in Figure 4.1 - Meets Requirements, Needs Attention, and Exceeds Limits.

The Current Approved Schedule completion for the overall WSIP (including Regional and Local Programs) and for the Regional Program is July 2016 and the currently Forecasted Schedule completion is the same. The Approved Schedule completion for the WSIP Local Program is June 2015 and currently Forecasted Schedule completion is the same. Refer to Appendix C for a graphical presentation of the WSIP Approved Project-Level Schedule.

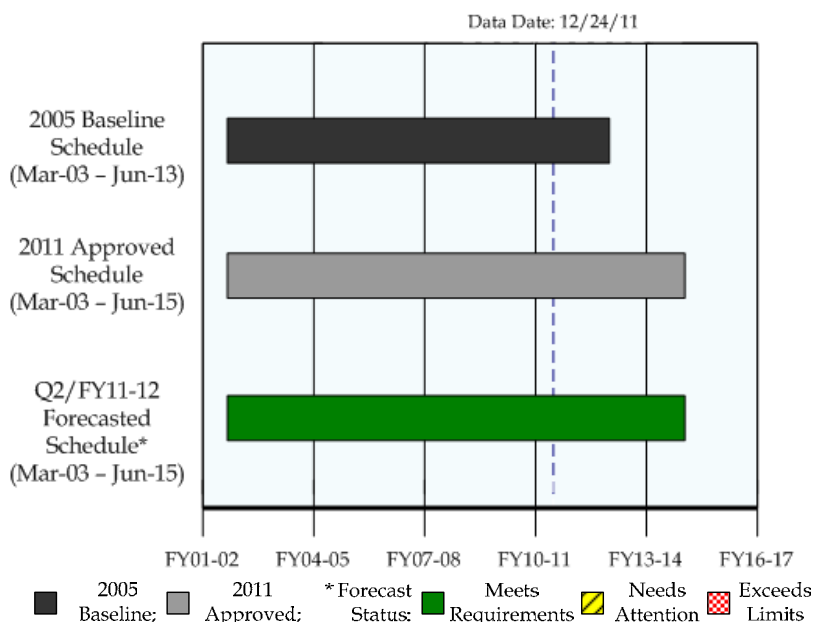


Figure 4.1 Program Schedule Summary

Table 4.1 2011 Approved vs. Q2/FY11-12 Forecasted Schedule Dates

| Category | 2005 Baseline Start | 2011 Approved Start | Current* Approved Start | Actual Start | 2005 Baseline Finish | 2011 Approved Finish | Current* Approved Finish | Q2/FY11-12 Forecasted Finish | Schedule Variance (Months) |
|---------------------|---------------------------|---------------------------|-------------------------------|-----------------|----------------------------|----------------------------|--------------------------------|------------------------------------|----------------------------------|
| Local Program | 03/01/03 | 03/31/03 | 03/31/03 | 03/01/03✓ | 06/28/13 | 06/05/15 | 06/05/15 | 06/05/15 | - |
| Regional Program | 03/01/03 | 03/31/03 | 03/31/03 | 03/01/03✓ | 06/30/14 | 07/29/16 | 07/29/16 | 07/29/16 | - |
| Overall WSIP | 03/01/03 | 03/01/03 | 03/01/03 | 03/01/03✓ | 06/30/14 | 07/29/16 | 07/29/16 | 07/29/16 | - |

* The budget and schedule approved as part of the June 2011 Revised WSIP, plus any additional budget and schedule changes approved by the Commission as part of additional contingencies on construction contracts.

5. PROJECT PERFORMANCE SUMMARY*

All costs are shown in \$1,000s as of 12/24/11

| Project Name | Active Phase (**) | 2005 Baseline Budget (a) | 2011 Approved Budget (b) | Current Approved Budget (c) | Q2/FY11-12 Forecasted Cost (d) | Expenditures To Date (e) | Cost Variance (f= c - d) | Cost Status (+) | 2005 Baseline Completion (g) | 2011 Approved Completion (h) | Current Approved Completion (i) | Q2/FY11-12 Forecasted Completion (j) | Schedule Variance (k = i - j) | Schedule Status (+) | Project Data Sheet |
|--|-------------------|--------------------------|--------------------------|-----------------------------|--------------------------------|--------------------------|--------------------------|-----------------|------------------------------|------------------------------|---------------------------------|--------------------------------------|-------------------------------|---------------------|--------------------|
| Reservoirs | | | | | | | | | | | | | | | |
| CUW31901 - Hunters Point Reservoir Rehab & Seismic Upgrade | CN | \$ 8,123 | \$ 3,597 | \$ 3,597 | \$ 3,567 | \$ 2,986 | \$ 30 | ★ | 05/04/12 | 08/20/12 | 08/20/12 | 08/20/12 | - | ★ | See Appendix D |
| CUW33701 - Sutro Reservoir Rehab & Seismic Upgrade | BA | \$ 31,372 | \$ 65,000 | \$ 65,000 | \$ 64,675 | \$ 4,243 | \$ 325 | ★ | 07/15/11 | 06/05/15 | 06/05/15 | 06/05/15 | - | ★ | See Appendix D |
| Pump Stations / Tanks | | | | | | | | | | | | | | | |
| CUW30901 - Lake Merced Pump Station Essential Upgrades | CN | \$ 69,093 | \$ 47,292 | \$ 47,292 | \$ 48,321 | \$ 39,292 | (\$1,029) | ⚠ | 07/15/11 | 09/28/12 | 09/28/12 | 09/28/12 | - | ★ | See Section 6 |
| CUW32001 - Forest Hill Pump Station Upgrades | CN | \$ 4,446 | \$ 7,583 | \$ 7,583 | \$ 7,546 | \$ 2,192 | \$ 37 | ★ | 12/02/11 | 09/20/13 | 09/20/13 | 09/12/13 | <1 mo. Early | ★ | See Appendix D |
| CUW33801 - La Grande Pump Station Upgrades | CN | \$ 5,311 | \$ 5,225 | \$ 5,225 | \$ 5,225 | \$ 3,477 | - | ★ | 11/05/10 | 11/26/12 | 11/26/12 | 11/26/12 | - | ★ | See Appendix D |

* Exclude projects with completed construction and projects that are no longer active (i.e., deleted projects, closed projects, and projects combined with other projects)

**** Phase Status Legend**

| | | | | | |
|----|--------------|----|-----------|----|-------------|
| PL | Planning | DS | Design | BA | Bid & Award |
| CN | Construction | CL | Close-Out | | |

For projects active in multiple phase, the table shows the phase in which a majority of the work is taking place.







+ Cost and Schedule Status

- ★ Meet Requirements: Forecasted Cost/Schedule is within Current Approved Budget/Schedule.
- ⚠ Need Attention: Forecasted Cost is over Current Approved Budget by greater than 1% and less than 10%. Or Forecasted Schedule is over Current Approved Schedule by greater than 2 months and less than 6 months and less than 10%.
- Exceed Limits: Forecasted Cost is over Current Approved Budget by 10% or more. Or Forecasted Schedule is over Current Approved Schedule by greater than 6 months or 10% or more.

6. PROJECTS NOT WITHIN BUDGET AND/OR SCHEDULE

CUW30901 - Lake Merced Pump Station Essential Upgrades

Project Description: This project will rebuild the Lake Merced pump station. Specific improvements include a new reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

| | | | | | |
|--|---|-------------------------------------|---------------------------------|---|--------|
| Region: Pump Stations / Tanks | | Project Status: Construction | | Environmental Status: Completed (CatEx) | |
| Project Cost: | | | Project Schedule: | | |
| Approved |  | \$47.29 M | Approved Jan-06 |  | Sep-12 |
| Forecast* |  | \$48.32 M | Forecast* Jan-06 |  | Sep-12 |
| Actual |  | \$39.29 M | Project Percent Complete: 86.3% | | |
|  | | | | | |
| Key Milestones: | Environmental Approval | Bid Advertisement | Construction NTP | Construction Final Completion | |
| Current Forecast | 12/28/07✓ | 10/20/08✓ | 06/01/09✓ | 03/30/12 | |

Progress and Status:

Completed construction, disinfection, and water quality testing of the Sutro pumps and pipeline. Continuing startup, testing, and commissioning of the Sutro pumping system. Completed construction of the tie-back anchoring system to cement buttress wall. Completed hazardous material abatement of existing pump station building. Continue selective demolition and seismic retrofit of the existing pump station building structure. Continue installation of Lake Draw pumps and pipeline.

Issues and Challenges:

A formal SFPUC department letter issued to San Francisco Fire Department (SFFD) regarding the design intent of LMPS backup generator system and general water system facility operation appears to have satisfied SFFD concerns. The Fire Permit for this facility has been submitted and is pending review and approval. Unforeseen hydrocarbon contamination was discovered in the soil samples at the existing Underground Storage Tanks (UST) to be demolished. Additional testing and work plan is being developed and coordinated with Department of Public Health (DPH). Additional work to abate the hazmat soil surrounding the UST's maybe necessary and may delay construction progress. Current cost variance reflects contingency estimate for refurbishment of the existing pump station building for office staff.



Mechanical pump arrangement inside the new LMPS building

7. On-Going Construction

| Construction Contract | Schedule | | | Budget | | Variance (Original - Forecast) | | Planned % Complete | Actual % Complete |
|--|-------------|---|---|------------------------------|-----------------------------------|-----------------------------------|---------------|--------------------------|-------------------------|
| | NTP Date | Original Construction Final Completion | Q2/FY11-12 Forecasted Construction Final Completion | Original Contract Cost | Q2/FY11-12 Forecasted Cost* | Schedule (Cal. Days) | Cost | | |
| Reservoirs | | | | | | | | | |
| CUW31901 - Hunters Point Reservoir Rehab & Seismic Upgrade | 02/07/11 | 01/02/12 | 02/16/12 | \$ 1,680,000 | \$ 1,848,548 | (45) | (\$168,548) | 97.0% | 87.6% |
| Pump Stations / Tanks | | | | | | | | | |
| CUW30901 - Lake Merced Pump Station Essential Upgrades Project | 06/01/09 | 10/23/11 | 03/30/12 | \$ 31,584,000 | \$ 33,149,815 | (159) | (\$1,565,815) | 100.0% | 85.6% |
| CUW32001 - Forest Hill Pump Station Upgrade | 09/12/11 | 03/14/13 | 03/14/13 | \$ 3,651,050 | \$ 3,651,050 | - | - | 28.2% | 12.8% |
| CUW33801 - La Grande Pump Station Upgrade | 05/27/10 | 01/11/12 | 05/23/12 | \$ 2,586,000 | \$ 2,604,213 | (133) | (\$18,213) | 100.0% | 62.6% |

| | | | | |
|--|-----------------------------------|--|----------------------|----------------|
| Program Total for On-Going Construction | Original Contract Cost | Q2/FY11-12 Forecasted Cost* | Variance | |
| | | | Cost | Percent |
| | \$ 39,501,050 | \$ 41,253,626 | (\$1,752,576) | (4.4%) |

Note: * The Forecasted Cost includes all approved, pending, and potential change orders.

8. PROJECTS IN CLOSE-OUT

| Project Title | 2005 Baseline Construction Phase Completion | 2011 Approved Construction Phase Completion | Current Approved Construction Phase Completion | Actual Construction Phase Completion | 2005 Baseline Construction Phase Budget | 2011 Approved Construction Phase Budget | Current Approved Construction Phase Budget | Construction Phase Expenditures To Date |
|---|---|---|--|--------------------------------------|---|---|--|---|
| Reservoirs | | | | | | | | |
| CUW30701 - Summit Reservoir Rehabilitation | 06/02/06 | 06/26/06 | 06/26/06 | 06/26/06 | \$ 9,649,877 | \$ 7,760,609 | \$ 7,760,609 | \$ 7,861,726 |
| Pump Stations / Tanks | | | | | | | | |
| CUW32101 - Forest Knolls Pump Station Upgrades | 01/04/08 | 12/03/09 | 12/03/09 | 12/03/09 | \$ 3,912,000 | \$ 4,561,400 | \$ 4,561,400 | \$ 4,561,400 |
| CUW32301 - Alemany Pump Station Upgrades (McLaren Park) | 01/09/09 | 02/25/11 | 02/25/11 | 02/25/11 | \$ 8,150,000 | \$ 24,181,984 | \$ 24,181,984 | \$ 24,182,106 |
| CUW33001 - Forest Knolls Tank Seismic Upgrade | 01/04/08 | 12/03/09 | 12/03/09 | 12/03/09 | \$ 2,185,000 | \$ 2,447,633 | \$ 2,447,633 | \$ 2,447,633 |
| CUW34001 - Vista Francisco Pump Station Upgrades | 11/06/09 | 12/17/10 | 12/17/10 | 12/17/10 | \$ 3,936,000 | \$ 3,185,607 | \$ 3,185,607 | \$ 3,173,183 |
| Pipelines / Valves | | | | | | | | |
| CUW31201 - Lincoln Way Transmission Line | 08/04/06 | 11/10/06 | 11/10/06 | 11/10/06 | \$ 11,369,200 | \$ 9,345,426 | \$ 9,345,426 | \$ 9,345,426 |
| TOTAL | | | | | \$ 39,202,077 | \$ 51,482,660 | \$ 51,482,660 | \$ 51,571,474 |

9. COMPLETED PROJECTS

| Project Title | 2005 Baseline Project Completion | 2011 Approved Project Completion | Actual Project Completion | 2005 Baseline Project Budget | 2011 Approved Project Budget | Project Expenditures To Date |
|---|---|---|---------------------------------|---------------------------------------|---------------------------------------|------------------------------------|
| Reservoirs | | | | | | |
| CUW33401 - Stanford Heights Reservoir Rehabilitation | 03/05/10 | 04/01/11 | 04/01/11 | \$ 19,172,308 | \$ 23,635,000 | \$ 23,632,660 |
| CUW33501 - Potrero Heights Reservoir Rehabilitation | 07/13/07 | 08/11/08 | 08/11/08 | \$ 7,610,033 | \$ 6,836,736 | \$ 6,836,736 |
| Pump Stations / Tanks | | | | | | |
| CUW30601 - Crocker Amazon Pump Station Upgrades | 10/31/06 | 03/27/08 | 03/27/08 | \$ 4,823,675 | \$ 4,126,498 | \$ 4,126,498 |
| CUW31401 - La Grande Tank Seismic Upgrade | 06/07/07 | 12/18/08 | 12/18/08 | \$ 7,919,543 | \$ 6,987,728 | \$ 6,987,728 |
| CUW31801 - Forest Hill Tank Rehab & Seismic Upgrade | 01/05/07 | 08/31/07 | 08/31/07 | \$ 3,204,561 | \$ 2,936,199 | \$ 2,936,199 |
| CUW32201 - Lincoln Park Pump Station Upgrades | 06/01/07 | 08/11/08 | 08/11/08 | \$ 4,762,027 | \$ 4,345,215 | \$ 4,345,215 |
| CUW32401 - Mount Davidson Pump Station Upgrades | 08/06/09 | 03/30/11 | 03/30/11 | \$ 5,223,489 | \$ 4,578,500 | \$ 4,327,966 |
| CUW32501 - Palo Alto Pump Station Upgrades | 04/10/09 | 11/16/10 | 11/16/10 | \$ 5,225,506 | \$ 6,254,000 | \$ 6,255,526 |
| CUW32601 - Sky View - Aqua Vista Pump Station Upgrade | 07/11/08 | 08/11/09 | 08/11/09 | \$ 5,717,647 | \$ 4,751,094 | \$ 4,751,094 |
| CUW32701 - Summit Pump Station Upgrades | 03/20/08 | 08/11/08 | 08/11/08 | \$ 6,396,784 | \$ 6,546,113 | \$ 6,546,113 |
| CUW32801 - McLaren #1 Tank Rehab & Seismic Upgrade | 10/10/08 | 08/11/08 | 08/11/08 | \$ 5,354,512 | \$ 4,659,910 | \$ 4,659,741 |
| CUW32901 - Potrero Heights Tank Seismic Upgrade | 07/13/07 | 08/11/08 | 08/11/08 | \$ 1,281,714 | \$ 1,084,863 | \$ 1,084,863 |
| CUW33101 - Lincoln Park Tank Seismic Upgrade | 06/01/07 | 08/11/08 | 08/11/08 | \$ 3,085,460 | \$ 2,690,656 | \$ 2,686,656 |
| CUW33201 - McLaren #2 Tank Rehab & Seismic Upgrade | 10/10/08 | 08/11/08 | 08/11/08 | \$ 5,329,017 | \$ 4,458,201 | \$ 4,458,201 |
| CUW33301 - Mount Davidson Tank Seismic Upgrade | 08/06/09 | 03/30/11 | 03/30/11 | \$ 3,927,838 | \$ 2,829,000 | \$ 2,568,414 |
| CUW33901 - Potrero Heights Pump Station Upgrades | 07/13/07 | 08/11/08 | 08/11/08 | \$ 733,242 | \$ 605,670 | \$ 605,670 |
| Pipelines / Valves | | | | | | |
| CUW30401 - North University Mound System Upgrade | 05/07/10 | 06/30/11 | 06/30/11 | \$ 23,114,504 | \$ 11,450,000 | \$ 10,000,017 |
| CUW30801 - Key Motorized and Other Critical Valves | 11/06/07 | 08/11/08 | 08/11/08 | \$ 11,447,747 | \$ 10,984,746 | \$ 10,984,746 |
| CUW31101 - Sunset Circulation Improvements | 07/06/06 | 07/06/06 | 07/06/06 | \$ 8,224,379 | \$ 7,073,054 | \$ 7,073,164 |
| CUW31301 - Noe Valley Transmission Main, Phase 2 | 02/11/11 | 06/03/11 | 06/03/11 | \$ 11,956,364 | \$ 5,657,000 | \$ 5,641,390 |
| CUW31501 - East / West Transmission Main | 04/10/09 | 03/21/11 | 03/21/11 | \$ 22,955,659 | \$ 27,755,000 | \$ 27,753,751 |
| CUW31601 - Fulton @ Sixth Ave - 30" Main Replacement | 08/08/08 | 08/11/08 | 08/11/08 | \$ 4,842,437 | \$ 4,713,931 | \$ 4,713,931 |

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| Project Title | 2005 Baseline Project Completion | 2011 Approved Project Completion | Actual Project Completion | 2005 Baseline Project Budget | 2011 Approved Project Budget | Project Expenditures To Date |
|--|---|---|---------------------------------|---------------------------------------|---------------------------------------|------------------------------------|
| Miscellaneous | | | | | | |
| CUW30301 - Vehicle Service Facility Equipment Safety Upgrade | 07/02/09 | 08/11/09 | 08/11/09 | \$ 5,245,082 | \$ 4,043,540 | \$ 4,043,540 |
| CUW30501 - Fire Protection @ CDD | 06/30/06 | 01/30/07 | 01/30/07 | \$ 1,988,892 | \$ 1,675,476 | \$ 1,675,476 |
| TOTAL | | | | \$ 179,542,420 | \$ 160,678,130 | \$ 158,695,295 |

APPENDICES

- A PROJECT DESCRIPTIONS**
- B WSIP BUDGET AND EXPENDITURES HISTOGRAM**
- C WSIP 2009 APPROVED PROJECT-LEVEL SCHEDULE**
- D PROJECTS WITHIN BUDGET AND SCHEDULE**
- E LIST OF ACRONYMS**

APPENDIX A. PROJECT DESCRIPTIONS

Reservoirs

CUW30701 - Summit Reservoir Rehabilitation

This project consists of the upgrade of the existing Summit Reservoir to meet current seismic standards and conform to all State Public Health requirements. The project includes a new inlet/outlet structure to correct circulation problems.

CUW31001 - New Northwest Reservoir (Deleted)

This project is the construction of a new 5MG reservoir in the northeast zone of San Francisco. This reservoir will provide both fire protection and pressurized supply to areas currently served from the Sunset and Lombard Zones.

CUW31901 - Hunters Point Reservoir Rehab & Seismic Upgrade

This project is the upgrade of the existing Hunters Point Reservoir to meet current seismic standards and conform to all State Health requirements and includes correction of circulation problems and new inlet/outlet structure.

CUW33401 - Stanford Heights Reservoir Rehabilitation (Completed)

This project consists of the upgrade of the existing Stanford Heights Reservoir to meet current seismic standards and conform to all State Public Health requirements. The project includes a new inlet/outlet structure to correct circulation problems.

CUW33501 - Potrero Heights Reservoir Rehabilitation (Completed)

This project is the upgrade of the existing Potrero Heights Reservoir to meet current seismic standards and conform to all State Health requirements and includes correction of circulation problems and new inlet/outlet structure.

CUW33701 - Sutro Reservoir Rehab & Seismic Upgrade

This project is the upgrade of the existing Sutro Reservoir to meet current seismic standards and conform to all State Health requirements and includes the correction of circulation problems and new inlet/outlet structure.

Pump Stations / Tanks

CUW30601 - Crocker Amazon Pump Station Upgrades (Completed)

This project will rebuild the Crocker-Amazon pump station, including a reinforced concrete structure, three pumps, stand-by generator, hydropneumatic tanks, security fencing, monitoring and disinfection systems, and landscaping.

CUW30901 - Lake Merced Pump Station Essential Upgrades

This project will rebuild the Lake Merced pump station. Specific improvements include a new reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

CUW31401 - La Grande Tank Seismic Upgrade (Completed)

The project will include the replacement of the La Grande tank, including a concrete tank foundation, new 350,000 gal steel tank, inlet/outlet piping, valves, security fencing, water quality monitoring systems, demolition of existing facility.

CUW31801 - Forest Hill Tank Rehab & Seismic Upgrade (Completed)

This project is the seismic upgrade of the Forest Hill concrete tank, including seismic work, new foundation, inlet/outlet, valves; retaining wall; security fencing and monitoring system, and site improvements.

CUW32001 - Forest Hill Pump Station Upgrades

This project will rebuild the Forest Hill pump station. Specific improvements include a reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

CUW32101 - Forest Knolls Pump Station Upgrades

This project will rebuild the Forest Knolls pump station, including a reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, water quality monitoring and sampling systems, and landscaping.

CUW32201 - Lincoln Park Pump Station Upgrades (Completed)

This project will rebuild the Lincoln Park pump station. Specific improvements include a new reinforced concrete structure, pumps, stand-by generator, security fencing, tanks, SCADA, monitoring and disinfection systems, and landscaping.

CUW32301 - Alemany Pump Station Upgrades (McLaren Park)

This project will rebuild the Alemany Pump Station, including a reinforced concrete structure, pumps, stand-by generators, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

CUW32401 - Mount Davidson Pump Station Upgrades (Completed)

This project will rebuild the Mount Davidson pump station. Specific improvements include a new reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

CUW32501 - Palo Alto Pump Station Upgrades (Completed)

This project will rebuild the Palo Alto Pump Station, including a seismically reinforced concrete structure, pumps, replacement of hydro pneumatic tanks, stand-by generator,

security fencing, SCADA, landscaping, and demolition of existing facility.

CUW32601 - Sky View - Aqua Vista Pump Station Upgrade (Completed)

This project will rebuild the Sky View-Aqua Vista pump station, including a reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, water quality monitoring and sampling systems, and landscaping.

CUW32701 - Summit Pump Station Upgrades (Completed)

This project will rebuild the Summit Pump Station, including a reinforced concrete structure, retaining walls, pumps, inlet-outlet piping, seismic reinforcing of existing generator building, security fencing, SCADA, landscaping, and demolition of existing facility.

CUW32801 - McLaren #1 Tank Rehab & Seismic Upgrade (Completed)

This project consists of the rehabilitation and seismic upgrade of the McLaren #1 Tank including seismic bracing, interior lining replacement, cathodic protection, new exterior coating, lead paint abatement, new inlet/drain/overflow piping and valves, security fencing, electrical improvements, paving, and landscaping.

CUW32901 - Potrero Heights Tank Seismic Upgrade (Completed)

This project is the demolition of the existing Potrero Heights Tank. The tank became nonessential upon completion of the Sunset Circulation Improvements Project.

CUW33001 - Forest Knolls Tank Seismic Upgrade

This project will include the replacement of the Forest Knolls Tank, including a new 100,000 gallon concrete tank, inlet/outlet piping, valves, security fencing, monitoring systems, demolition, and site improvements.

CUW33101 - Lincoln Park Tank Seismic Upgrade (Completed)

The project consists of the replacement of the Lincoln Park tank. Specific improvements include a new 100,000G concrete tank, inlet/outlet piping, valves, security fencing, monitoring systems, demolition, and site improvements.

CUW33201 - McLaren #2 Tank Rehab & Seismic Upgrade (Completed)

This project consists of the rehabilitation and seismic upgrade of the McLaren #2 tank including seismic bracing, interior lining replacement, cathodic protection, new exterior coating, lead paint abatement, new inlet/drain/overflow piping and valves, security fencing, electrical improvements, paving, and landscaping.

CUW33301 - Mount Davidson Tank Seismic Upgrade (Completed)

The project consists of the seismic retrofit of the existing 75,000G Mount Davidson tank. Specific improvements include a drilled pier foundation, inlet/outlet piping, valves, security fencing, monitoring systems, demolition, and site improvements.

CUW33801 - La Grande Pump Station Upgrades

This project will rebuild the La Grande pump station, including a reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

CUW33901 - Potrero Heights Pump Station Upgrades (Completed)

This project is the demolition of the existing Potrero Heights Pump Station. The pump station became nonessential upon completion of the Sunset Circulation Improvements Project.

CUW34001 - Vista Francisco Pump Station Upgrades

This project will rebuild the Vista Francisco pump station, including a reinforced concrete structure, pumps, stand-by generator, security

fencing, SCADA, monitoring and disinfection systems, and landscaping.

Pipelines/Valves

CUW30401 - North University Mound System Upgrade (Completed)

This project will improve the supply reliability of the University Mound (UM) system, linking the two independent University Mound and Sunset Supply systems. In order to diminish the impact on the neighborhoods, sewer, domestic water distribution main, and pavement replacement work has been added to the scope.

CUW30801 - Key Motorized and Other Critical Valves (Completed)

This project consists of installing motorized valves at several critical locations. These valves will assist during emergency shutdowns after events such as main breaks, earthquakes, or other situations requiring immediate system isolation.

CUW31101 - Sunset Circulation Improvements (Completed)

This project improved the operation of the Sunset Zone by allowing McLaren tanks to feed the Potrero Heights System. This improved circulation and created a more reliable water supply for the Potrero System.

CUW31201 - Lincoln Way Transmission Line

This project is a new transmission main to serve as a backup to the deteriorated Sunset main from Sunset Reservoir to 5th Avenue and Lincoln Way. Under this project, approximately 13,000 LF of 48-inch steel pipe will be constructed.

CUW31301 - Noe Valley Transmission Main, Phase 2 (Completed)

This project is a new transmission main that will extend the Noe Valley main. The existing main, which ends at Sanchez and 20th Streets, needs to be extended to supply additional pressure to areas where low pressure is a problem.

CUW31501 - East / West Transmission Main (Completed)

This project is a new main from Alemany PS to the western part of the City. This transmission main will enable the SFPUC to move water from the east side of the City into the Sunset system in the event of a peninsula pipeline failure or emergency.

CUW31601 - Fulton @ Sixth Ave - 30" Main Replacement (Completed)

This project consists of construction of a 30" main to replace the deteriorated Richmond supply main in the Golden Gate Park from Lincoln Way at 6th Avenue to Fulton at 6th. The main will extend the Sunset zone to increase the pressure and supply at the northern end of the zone.

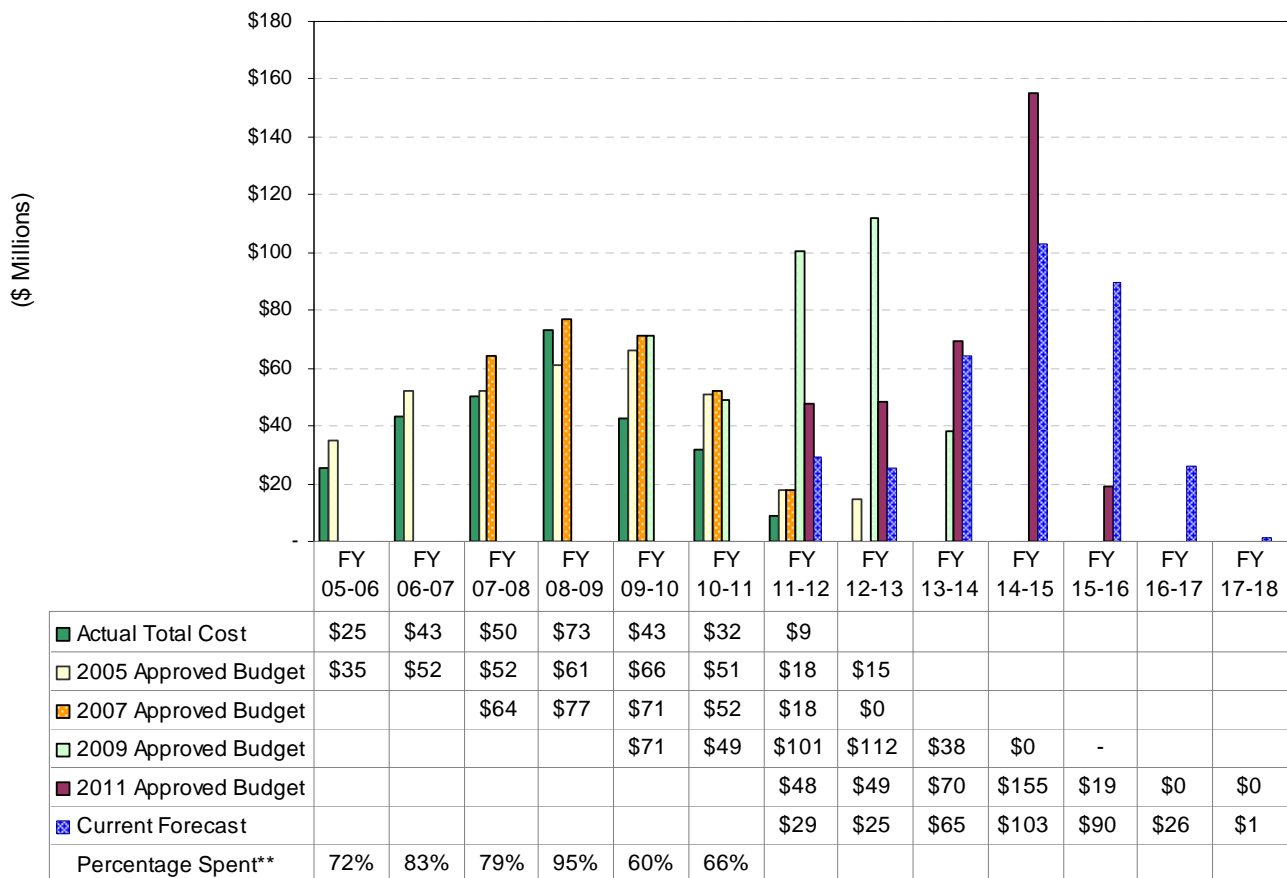
Miscellaneous**CUW30301 - Vehicle Service Facility Equipment Safety Upgrade (Completed)**

This project will upgrade the vehicle service center, machine shop, and various other City Distribution Division (CDD) shops to correct seismic deficiencies and comply with worker safety standards and health department regulations.

CUW30501 - Fire Protection @ CDD (Completed)

This project covers the final phase of construction to complete the fire detection and monitoring systems needed at the City Distribution Division facilities.

APPENDIX B. BUDGET AND EXPENDITURE HISTOGRAM*



All costs are shown in \$ Millions.

* The histogram does not reflect budget and expenditures prior to FY 2005-2006. The histogram includes budget and expenditures for Local Water Supply Projects

** Percentage Spent calculated as Actual Expenditures over the most current Approved Budget for each individual Fiscal Year.







Figure B Annual Budgeted Spending Plans vs. Actual Expenditures

Figure B compares the spending plans associated with the various WSIP Approved Budgets to Actual Expenditures. It shows total annual expenditures from FY05-06 through Q2/FY11-12 and cost projections (Current Forecast) from FY11-12 through program completion in July 2017. Actual annual expenditures have ranged from 60% to 95% of planned expenditures.

APPENDIX D. PROJECTS WITHIN BUDGET AND SCHEDULE

CUW31901 - Hunters Point Reservoir Rehab & Seismic Upgrade

Project Description: This project is the upgrade of the existing Hunters Point Reservoir to meet current seismic standards and conform to all State Health requirements and includes correction of circulation problems and new inlet/outlet structure.

| | | | | | |
|--|---|-------------------------------------|---------------------------------|---|--------|
| Region: Reservoirs | | Project Status: Construction | | Environmental Status: Completed (CatEx) | |
| Project Cost: | | | Project Schedule: | | |
| Approved |  | \$3.60 M | Approved Feb-08 |  | Aug-12 |
| Forecast* |  | \$3.57 M | Forecast* Feb-08 |  | Aug-12 |
| Actual |  | \$2.99 M | Project Percent Complete: 88.5% | | |
|  | | | | | |
| Key Milestones: | Environmental Approval | Bid Advertisement | Construction NTP | Construction Final Completion | |
| Current Forecast | 08/25/10✓ | 09/14/10✓ | 02/07/11✓ | 02/16/12 | |

Progress and Status:

Substantial completion was achieved in this quarter with all the structural, electrical, mechanical and landscape upgrades in place. There were some hairline cracks on the wall of the reservoir which were repaired and the reservoir was disinfected and tested for water tightness and was filled. Contractor started working on the remaining punch list items and will complete the punch list in the next quarter. The closeout activities will start in the next quarter.

Issues and Challenges:

None at this time.













Reservoir Roof

CUW33701 - Sutro Reservoir Rehab & Seismic Upgrade

Project Description: This project is the upgrade of the existing Sutro Reservoir to meet current seismic standards and conform to all State Health requirements and includes the correction of circulation problems and new inlet/outlet structure.

| | | |
|---------------------------|--------------------------------------|--|
| Region: Reservoirs | Project Status: Bid and Award | Environmental Status: Completed (CatEx) |
|---------------------------|--------------------------------------|--|

| | | | |
|--|---|--------------------------------|--|
| Project Cost: | | Project Schedule: | |
| Approved |  \$65.00 M | Approved Nov-06 |  Jun-15 |
| Forecast* |  \$64.68 M | Forecast* Nov-06 |  Jun-15 |
| Actual |  \$4.24 M | Project Percent Complete: 8.9% | |
|  Approved;  Actual Cost; * Forecast Status:  Meets Requirements  Needs Attention  Exceeds Limits | | | |

| Key Milestones: | Environmental Approval | Bid Advertisement | Construction NTP | Construction Final Completion |
|------------------|------------------------|-------------------|------------------|-------------------------------|
| Current Forecast | 12/19/11 ✓ | 01/07/12 | 06/25/12 | 10/27/14 |

Progress and Status:

The environmental consultant completed the air quality studies and prepared the final Health Risk Assessment, which assessed the project health risk below the threshold levels set by Bay Area Air Quality Management District (BAAQMD). The project Categorical Exempt then was submitted to City Planning Department and was approved and certified. The project team completed 100% design in this quarter. The project will be advertised in early January and bids will be open in February of 2012.

Issues and Challenges:

None at this time.









Interior of Sutro Reservoir

CUW32001 - Forest Hill Pump Station Upgrades

Project Description: This project will rebuild the Forest Hill pump station. Specific improvements include a reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

| | | |
|--------------------------------------|-------------------------------------|--|
| Region: Pump Stations / Tanks | Project Status: Construction | Environmental Status: Completed (CatEx) |
|--------------------------------------|-------------------------------------|--|

| | | | |
|---|----------|--|--------|
| Project Cost: | | Project Schedule: | |
| Approved  | \$7.58 M | Approved Jul-08  | Sep-13 |
| Forecast*  | \$7.55 M | Forecast* Jul-08  | Sep-13 |
| Actual  | \$2.19 M | Project Percent Complete: 32.6% | |
|  | | | |

| Key Milestones: | Environmental Approval | Bid Advertisement | Construction NTP | Construction Final Completion |
|------------------|------------------------|-------------------|------------------|-------------------------------|
| Current Forecast | 11/23/10✓ | 06/01/11✓ | 09/12/11✓ | 03/14/13 |

Progress and Status:

Mobilized construction equipment on site in early October. Completed construction and activation of the temporary mobile pump station on Quintara St. and Cragmont Ave. Completed hazardous materials abatement of the pump station and hydro-pneumatic tanks. Started demolition of the existing pump station and hydro tanks. Started trenching and construction of bypass piping segments B and C. Construction of drilled piers and soldier pile retaining wall is anticipated to begin next quarter.

Issues and Challenges:

None at this time.









Rendering of Proposed Forest Hill Pump Station

CUW33801 - La Grande Pump Station Upgrades

Project Description: This project will rebuild the La Grande pump station, including a reinforced concrete structure, pumps, stand-by generator, security fencing, SCADA, monitoring and disinfection systems, and landscaping.

| | | |
|--------------------------------------|-------------------------------------|--|
| Region: Pump Stations / Tanks | Project Status: Construction | Environmental Status: Completed (CatEx) |
|--------------------------------------|-------------------------------------|--|

| | | | |
|--|--|---------------------------------|--|
| Project Cost: | | Project Schedule: | |
| Approved |  \$5.23 M | Approved Jun-07 |  Nov-12 |
| Forecast* |  \$5.23 M | Forecast* Jun-07 |  Nov-12 |
| Actual |  \$3.48 M | Project Percent Complete: 69.7% | |
|  | | | |

| Key Milestones: | Environmental Approval | Bid Advertisement | Construction NTP | Construction Final Completion |
|------------------|------------------------|-------------------|------------------|-------------------------------|
| Current Forecast | 12/01/08✓ | 11/12/09✓ | 05/27/10✓ | 05/23/12 |

Progress and Status:

Completed construction pump station structure including roofing system, exterior stucco, louvers and vents, door frames and doors. Completed setting of the pumps and motors. Continue installation of the interior piping system, plumbing system, ventilation, fire protection/detection system, and electrical conduit and wiring. Permanent PG&E power is anticipated in early next quarter.

Issues and Challenges:

None at this time.



Rendering of Proposed La Grande Pump Station

APPENDIX E. LIST OF ACRONYMS

| | | | |
|---------------|---|---------------|--|
| AAR | Alternative Analysis Report | COH | City of Hayward |
| AB | Assembly Bill | COZEEP | Construction Zone Enhancement Enforcement Program |
| ACDD | Alameda Creek Diversion Dam | CRLF | California Red Legged Frog |
| ACFCD | Alameda County Flood Control District | CRT | Coast Range Tunnel |
| ACFE | Alameda Creek Fishery Enhancement | CSBPL | Crystal Springs Bypass Pipeline |
| ACOE | Army Corps of Engineers (also shown as USACE) | CSPL | Crystal Springs Pipeline |
| ACWD | Alameda County Water District | CSPS | Crystal Springs Pump Station |
| ADA | Americans with Disabilities Act | CS-SA | Crystal Springs - San Andreas |
| AGM | Assistant General Manager | CSSC | California Seismic Safety Commission |
| ASCE | American Society of Civil Engineers | DB | Design, Build |
| BAAQMD | Bay Area Air Quality Management District | DBO | Design, Build, Operate |
| BART | Bay Area Rapid Transit | DCR | Design Criteria Report |
| BAWSCA | Bay Area Water Supply and Conservation Agency | DGM | Deputy General Manager |
| BCWS | Budgeted Cost Work Scheduled | DPW | Department of Public Works |
| BDPL | Bay Division Pipeline | DRB | Dispute Review Board |
| BEM | Bureau of Environmental Management | DSOD | Division of Safety of Dams (State of California) |
| BMP | Best Management Practices | DTSC | Department of Toxic Substances Control (State of California) |
| BO | Biological Opinion | EBMUD | East Bay Municipal Utility District |
| CAB | Contract Administration Bureau | ECCM | Environmental Construction Compliance Manager |
| CATEX | Categorical Exemption | EIR | Environmental Impact Report |
| CCSF | City and County of San Francisco | EMB | Engineering Management Bureau |
| CDD | City Distribution Division | EPM | Environmental Project Manager |
| CDFG | California Department of Fish and Game | EV | Earned Value |
| CDPH | California Department of Public Health | EVM | Earned Value Management |
| CEQA | California Environmental Quality Act | FAQ | Frequently Asked Questions |
| CER | Conceptual Engineering Report | FONSI | Finding of No Significant Impact |
| CHP | California Highway Patrol | FRP | Fiber Reinforced Polymer |
| CIDH | Cast-In-Drilled Holes | FY | Fiscal Year |
| CIP | Capital Improvement Program | GM | General Manager |
| CM | Construction Management | HDPE | High Density Polyethylene |
| CMB | Construction Management Bureau | HH | Hetch Hetchy |
| CMIS | Construction Management Information System | HMP | Habitat Management Plan |
| CO | Change Order | HRP | Habitat Reserve Program |
| COF | City of Fremont | HTWTP | Harry Tracy Water Treatment Plant |
| | | IPTF | Interagency Permitting Task Force |
| | | IS | Initial Study |
| | | ITS | Information Technology Services |
| | | JOC | Job Order Contract |
| | | LBE | Local Business Enterprise |

| | | | |
|-----------------|--|--------------|---|
| LCSD | Lower Crystal Springs Dam | RWQCB | Regional Water Quality Control Board |
| LLNL | Lawrence Livermore National Laboratory | SABPL | San Antonio Backup Pipeline |
| LMPS | Lake Merced Pump Station | SAPL | San Antonio Pipeline |
| LOS | Levels of Service | SAPS | San Antonio Pump Station |
| LT2ESWTR | Long Term 2 Enhanced Surface Water Treatment Rule | SCADA | Supervisory Control and Data Acquisition |
| MEA | Environmental Analysis Division (SF Planning Department) | SFFD | San Francisco Fire Department |
| MG | Million Gallon | SFPUC | San Francisco Public Utilities Commission |
| MGD | Million Gallons per Day | SHPO | State Historic Preservation Officer |
| MIS | Management Information System | SJPL | San Joaquin Pipeline |
| MMRP | Mitigation Monitoring and Reporting Program | SMP | Surface Mining Permit |
| MND | Mitigated Negative Declaration | SPI | Schedule Performance Index |
| MOA | Memorandum of Agreement | SSTF | Seismic Safety Task Force |
| MOU | Memorandum of Understanding | SVWTP | Sunol Valley Water Treatment Plant |
| NAR | Needs Assessment Report | SWPPP | Stormwater Pollution Prevention Plan |
| NCSBT | New Crystal Springs Bypass Tunnel | TBD | To be determined |
| NEG DEC | Negative Declaration (also shown as ND) | TBM | Tunnel Boring Machine |
| NEPA | National Environmental Policy Act | TWR | Treated Water Reservoir |
| NMFS | National Marine Fisheries Service (under NOAA) | USACE | US Army Corps of Engineers |
| NOA | Naturally Occurring Asbestos | USEPA | United States Environmental Protection Agency |
| NOAA | National Oceanic and Atmospheric Agency | USFWS | US Fish & Wildlife Services |
| NOP | Notice of Preparation | UM | University Mount |
| NTP | Notice to Proceed | UV | Ultra Violet |
| OSHA | Occupational Safety and Health Administration | VOC | Volatile Organic Compound |
| PCCP | Pre-stressed Concrete Cylinder Pipe | WEIP | Watershed Environmental Improvement Program |
| PCE | Project Controls Engineer | WSIP | Water System Improvement Program |
| PCM | Program Construction Management | | |
| PCSB | Program Control and Support Bureau | | |
| PE | Project Engineer | | |
| PEIR | Program Environmental Impact Report | | |
| PG&E | Pacific Gas and Electric | | |
| ROW | Right-of-Way | | |
| RPD | San Francisco Recreation & Parks Department | | |