

- **Board of Directors**
Engineering and Operations Committee

November 16, 1999 Board Meeting

10-1

Subject

Eastside Reservoir Project Status Report for September 1999

Description

The Eastside Reservoir Project (ESRP) is on schedule for test filling of the reservoir on November 8, 1999, followed by the dedication ceremonies in March 2000. Projected costs are below the approved project budget. Current project information is attached, reflecting total budget and schedule summaries.

Atkinson-Washington-Zachry continued work on the west dam and saddle dam embankments. The west dam embankment is approximately 282 feet (out of 285 feet) above the original ground elevation. The saddle dam was topped out this month. The contractor completed the west dam in early November and is expected to be demobilized by the end of November 1999.

Kiewit-Granite, is continuing work in the south end of the east dam, which is approximately 141 feet (out of 169 feet) above the original ground elevation; the north end is complete. Work is expected to be complete in December 1999.

Advanco Constructors, completed installation and alignment of the P-1 pumping plant trash racks. The contractor continued with foundation and encasement work, water cooling lines, hydrostatic testing, pulling and terminating of control cables, and installation of various architectural components. All work is expected to finish in February 2000. The first four pumps were turned over to the Metropolitan start-up team at the end of September 1999, and the forebay was filled in early October.

Inlet/outlet tower contractor, Atkinson-Washington-Zachry, continued placing structural concrete in areas of the emergency gate, valve tower and anchor head, and began installation of the access-bridge. All work on the inlet/outlet tower is scheduled for completion in January 2000. The tower will be ready to deliver water to the reservoir in December 1999.

Inland Feeder pressure control structure contractor, Advanco Constructors, had been ahead of schedule; however, with previous delays on fireproofing and more recent installation difficulties with the Brico couplings, which are delaying hydrotesting of the pipeline, the work is back to being on schedule. Work is expected to be completed by the end of November 1999.

Secondary inlet contractor, J. F. Shea Co. Inc., continued placement of concrete slabs at the control building and the valve structure. They completed installation of the 72-inch spherical valve--the pipeline leading to the reservoir and electrical materials in various locations. Work on the secondary inlet is expected to be complete in December 1999.

North rim contractor, J. F. Shea Co. Inc., finished drilling holes for grout installation in the south adit and continued that operation in the west adit. All work on the North Rim is forecasted for completion in November 1999.

West dam earthwork contractor, Ford Construction Co. Inc., continued with the excavation of the retention basins and rough grading for the road to the signal spillway, marina and the south, high water road. All work on the west dam earthwork was completed in October 1999.

Tank saddle cut-off and signal spillway was awarded to J. F. Shea Co. Inc. The Notice to Proceed was issued on November 1, 1999.

Remaining contracts to be awarded are the high water road (north and south segments), disturbed area seeding and aesthetic treatment, site fencing, and several smaller contracts.

PROJECTED COSTS

The projected costs for ESRP increased by \$1.9 million, from \$2.003 billion to \$2.005 billion since establishment of the revised budget at the July 1999 Board meeting. The ESRP revised total budget is \$2.087 billion. Total expenditures to date are \$1.839.1 billion (see [Attachment 1](#) for a financial summary and [Attachment 2](#) for a schedule summary).

Projected Cost Increases and Decreases

West Dam and Saddle Dam	\$3.4 million
East Dam	\$1.2 million
North Rim	\$0.4 million
Inland Feeder Pressure Control Structure	\$0.2 million
Metropolitan Construction Labor	\$0.6 million
West Dam Earthwork	(\$1.4 million)
P-1 Pumping Plant	(\$2.4 million)
Other Miscellaneous Changes	(\$0.1 million)
Net Increase	\$1.9 million
Projected Cost	\$2.005 billion

These changes are made up of 139 individual increases and decreases to the projected costs resulting from quantity variances, directed changes issued by Metropolitan and pending changes which have not yet been finalized – all of which are detailed in the staff's Monthly Project Status Report. Financial information presented in this board letter is consistent with financial data (September 30, 1999) prepared by Lambertus Becker (Chief Financial Officer) and Ronald Krafka (ESRP Independent Oversight to the General Manager).

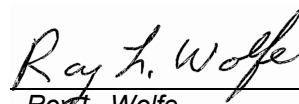
ISSUES AND CONCERNS

The two major dam contractors have solved their problems with the crushers and the equipment for placement of materials at the top of the dams. Both are expected to finish on schedule.

The pumping plant contractor, Advanco Constructors, met their revised Milestone 4, turnover of pumps 1-4 and Milestone 5, completion of all work to allow pumping through the yard in September, without penalty. Flooding of the forebay occurred as scheduled on October 5.

Policy

Board Request



Roy L. Wolfe
Acting Manager, Corporate Resources

10/28/99

Date



Ronald Krafka
General Manager

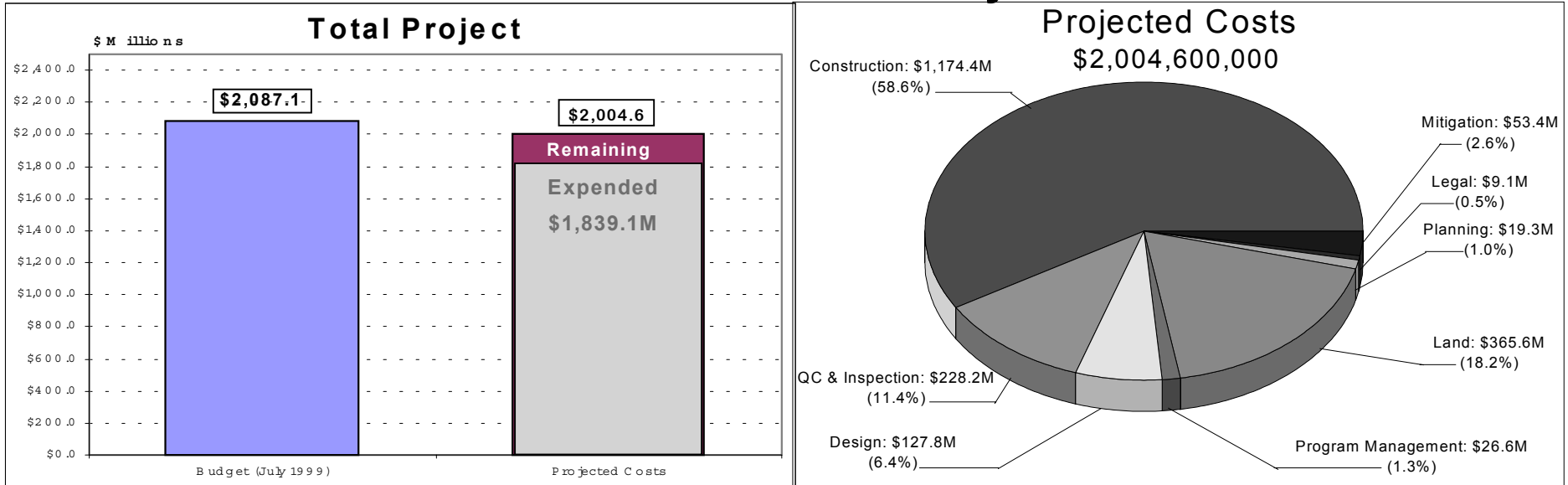
11/4/99

Date

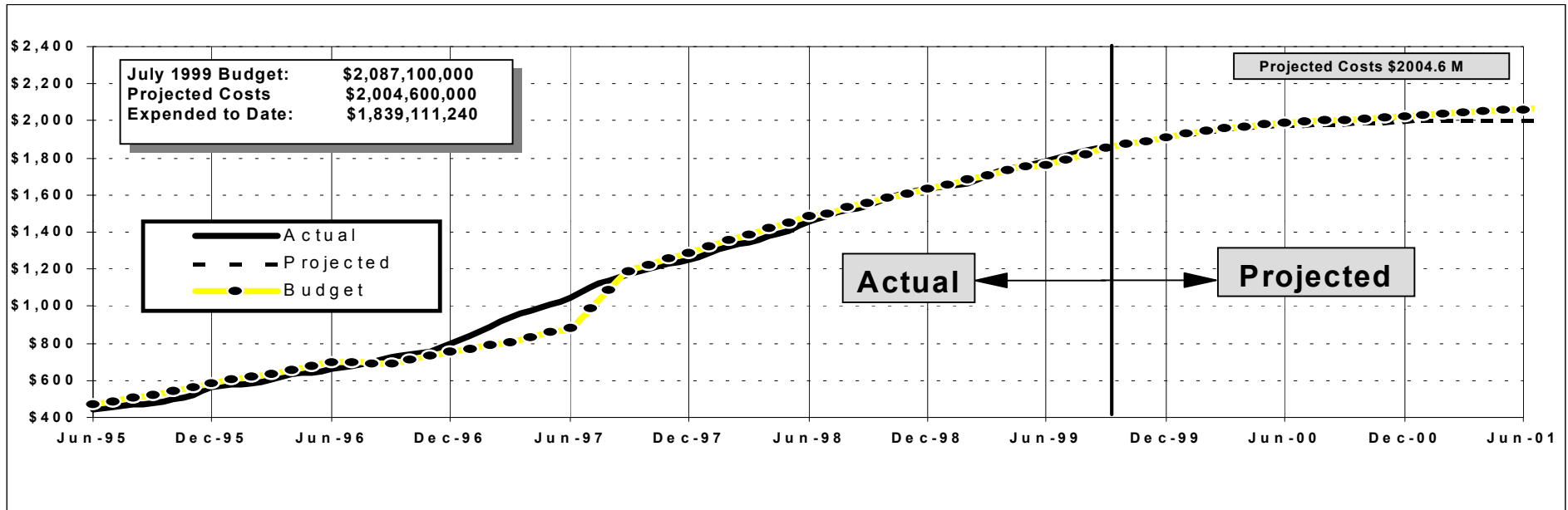
[Attachment 1 – Financial Summary/Project Cash Flow](#)

[Attachment 2 – Schedule Summary/Remaining Budget](#)

Financial Summary



Project Cash Flow

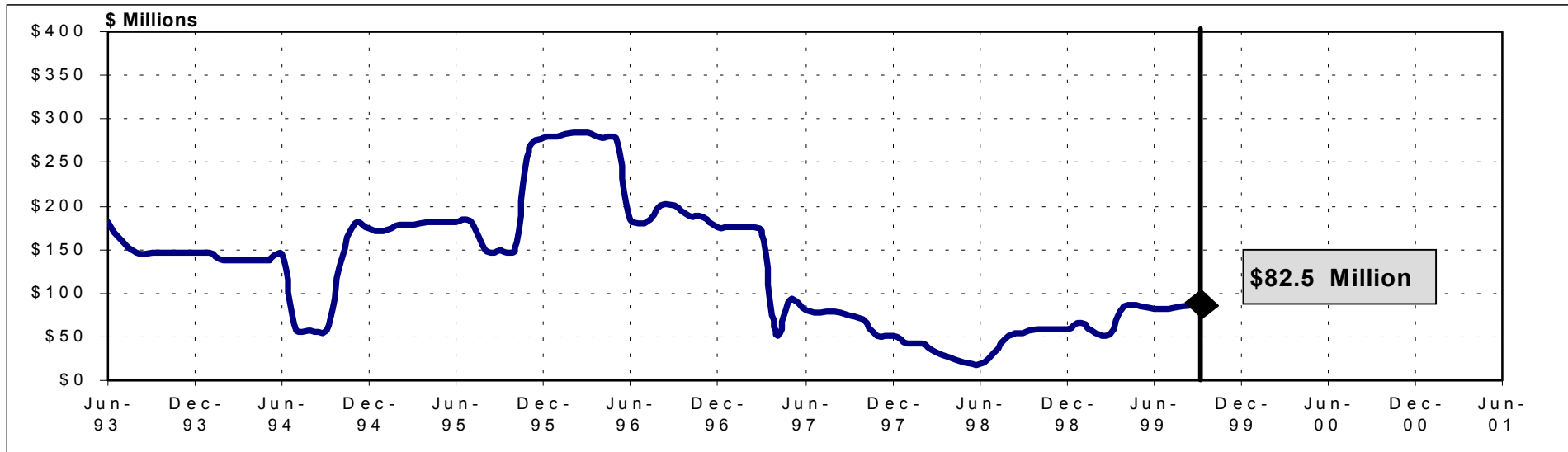


Schedule Summary

DESCRIPTION	PROGRESS		COMPLETION DATE		COMMENTS
	PLANNED ¹	ACTUAL	CONTRACT ²	FORECAST	
West Dam - Saddle Dam - Forebay	98%	97%	Nov-99	Nov-99	On schedule. Saddle Dam completed. Forebay completed. West Dam nearly topped out.
East Dam Embankment	95%	94%	Nov-99	Dec-99	Nearly on schedule due to increased productivity
Inlet / Outlet Tower	88%	88%	Jan-00	Jan-00	On schedule. Capable of pumping through the tower in December 1999.
P-1 Pumping Plant	90%	92%	Feb-00	Jan-00	Ahead of schedule. First 4 pumps turned over to Metropolitan for testing.
Secondary Inlet	99%	93%	Oct-99	Dec-99	Remains behind schedule.
North Rim Remediation	87%	87%	Jan-00	Dec-99	Ahead of schedule; forecasting to complete 6 to 8 weeks ahead of contract completion date.
Inland Feeder Pressure Control Structure	92%	92%	Dec-99	Nov-99	On schedule.
West Dam Earthwork	80%	94%	Dec-99	Oct-99	Ahead of schedule. Forecasting to complete 2 months ahead of contract completion.

1. Current approved schedule 2. Original contract duration + approved extensions

Remaining Budget



Note: Remaining Budget equals the ESRP revised total budget (July 1999) minus the Projected Costs.