

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

December 14, 1999 Board Meeting

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**10-1**

**Subject**

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Eastside Reservoir Project Status Report for October 1999

**Description**

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Actual fill operations are expected to begin in January when the first two pumps have completed testing. The dedication ceremonies are scheduled for March 17-19, 2000. Five current contracts, West Dam, East Dam, North Rim, Inland Feeder Pressure Control Structure and the Secondary Inlet, are forecast to be completed by the end of December, and two additional contracts the I/O Tower and Pumping Plant, are projected to be completed by mid-January. Projected total costs are within the revised project budget of \$2.087 billion approved by the Board in July 1999. Current project information is attached, reflecting total budget and schedule summaries.

Atkinson-Washington-Zachry topped out the West Dam at 285 feet above the original ground elevation. The contractor is working on the crest road and other associated roads and is in the process of dismantling the rock crushing facilities. AWZ is expected to complete all work in early November and be demobilized by the end of November 1999, except for the testing of the Remote Monitoring Units (RMU's), which will be completed by the end of December.

Kiewit-Granite is continuing work in the center and south end of the East Dam and is approximately 165 feet (out of 169 feet) above original ground elevation; the north end has been completed. Work on the East Dam is expected to end in December 1999.

Advanco Constructors (now acquired by J. F. Shea Co. Inc.) continued the Pumping Plant foundation and encasement work, vent piping, installation of high voltage cable and duct banks, pulling and terminating of control cables, and installation of various architectural components. All work is forecast to be completed in January 2000.

Inlet/Outlet Tower contractor, Atkinson-Washington-Zachry, completed concrete repairs in areas of the emergency gate, completed parapets at the access bridge and continued installation of electrical equipment in the storage building. All work on the Inlet/Outlet Tower is scheduled to be completed in January 2000.

Inland Feeder Pressure Control Structure contractor, Advanco Constructors, completed terminating of wires for the six sleeve valves, completed installation of the fuel inlet and return lines from the diesel storage tank to the generator and continued installing permanent perimeter fencing. Due to continued repairs and re-installation of the Brico couplings, scheduled completion slipped two weeks. Work is expected to end by mid-December 1999.

Secondary Inlet contractor, J. F. Shea Co. Inc., continued placement of concrete slabs at the control building and the valve structure, began installation of electrical conduits and pullboxes for the sump pumps, began pulling wires in the control building, and began filling the south pipeline with water in preparation for future hydrostatic testing. Work on the secondary inlet is expected to end in December 1999.

North Rim contractor, J. F. Shea Co. Inc., completed installation of drain plumbing in the south and west adits and continued with installation of electrical support and lighting materials. All work on the north rim is forecast to be completed in December 1999.

Ford Construction Company Inc. has completed all West Dam Earthwork. The only remaining item is installation of fencing around the Domenigoni property.

The Tank Saddle Cut-off and Signal Spillway contract was awarded to J. F. Shea Co. Inc., and the Notice-to-Proceed is expected to be issued in early November.

Remaining contracts to be awarded are the High Water Road (north and south segments), Disturbed Area Seeding, Disturbed Area Aesthetic Treatment, Site Fencing and several smaller contracts.

### PROJECTED TOTAL COSTS

The projected total costs for ESRP have decreased by \$30.2 million, from \$2.002.6 billion to \$1.972.4 billion since establishment of the revised budget at the July 1999 Board meeting. The ESRP revised budget is \$2.087 billion. Total expenditures to date are \$1,857.0 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	\$2.4 million
East Dam	\$0.9 million
West Dam Earthwork	(\$0.7 million)
Tank Saddle Cutoff Wall/Spillway	(\$0.6 million)
North Rim	(\$0.6 million)
Secondary Inlet	\$0.2 million
I/O Tower	(\$0.2 million)
P-1 Pumping Plant	(\$2.4 million)
Inland Feeder Pressure Control Structure	\$0.3 million
High Water Roads	(\$1.8 million)
Quarry Operation Road	(\$1.5 million)
Site Completion	(\$1.0 million)
Disturbed Areas Aesthetic Treatment	(\$27.8 million)
Dam Access Road	(\$3.1 million)
Fencing	\$0.9 million
Disturbed Areas Seeding	(\$0.6 million)
OCIP	\$6.9 million
Post Design Services - (Raytheon)	\$1.8 million
Construction Management/Post Design - (MWD)	(\$3.7 million)
Recreation Infrastructure Design - (MWD)	(\$0.5 million)
ROW - (Land, MWD Labor & Consultants)	(\$2.8 million)
Claims Support Services through December 2000	\$3.8 million
Other Miscellaneous Changes	(\$0.1 million)
	<b>Net Decrease (\$30.2 million)</b>
	<b>Projected Cost \$1972.4 billion*</b>

\*Excludes \$5.6 million of recreation expenditures to be transferred to Recreation following their budget appropriation

These changes are made up of 262 line item 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. Financial information presented in this board letter is consistent with financial data (October 30, 1999) prepared by Lambertus Becker (Chief Financial Officer) and Ronald Krafka (ESRP Independent Oversight to the General Manager).

**ISSUES AND CONCERNS**

Most of the issues have been resolved, and the major contracts are on track to complete work for an operational reservoir in December. Minor issues on the West Dam communication between the Global Positioning System and RMU's and on repair of the Brico couplings at the Inland Feeder Pressure Control Structure have caused some delays in final completion, but have no impact on reservoir filling activities.

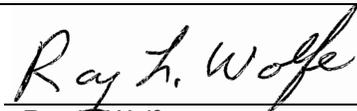
The only substantial issues at this time are manufacturing delivery and crane delays at the Secondary Inlet, which have caused a forecast completion 2 months past the contractual date.

**RECENT DEVELOPMENTS**

Water was successfully pumped through the Inlet/Outlet Tower into the reservoir in a test operation on November 8. Also, the Notice-to-Proceed on the Tank Saddle and Spillway contract is expected to be issued December 1, 1999. More detailed information will be provided in the November report.

**Policy**

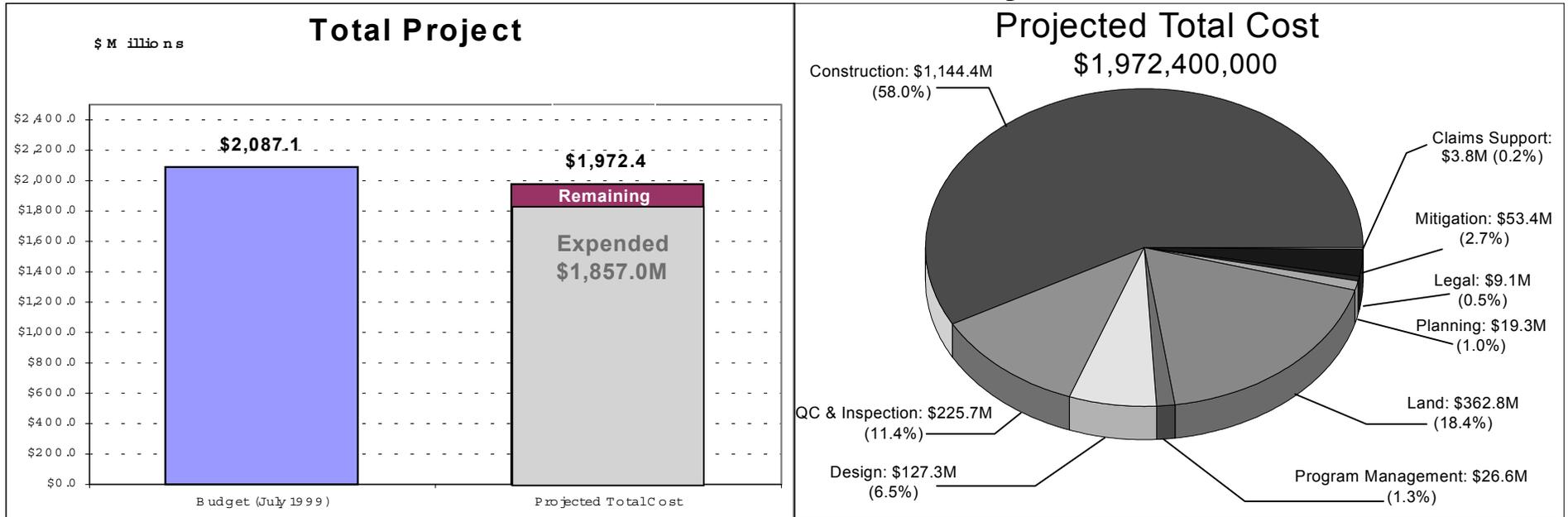
Board Request

	12/1/99
Roy L. Wolfe Acting Manager, Corporate Resources	<i>Date</i>
	12/1/99
Ronald R. Jester General Manager	<i>Date</i>

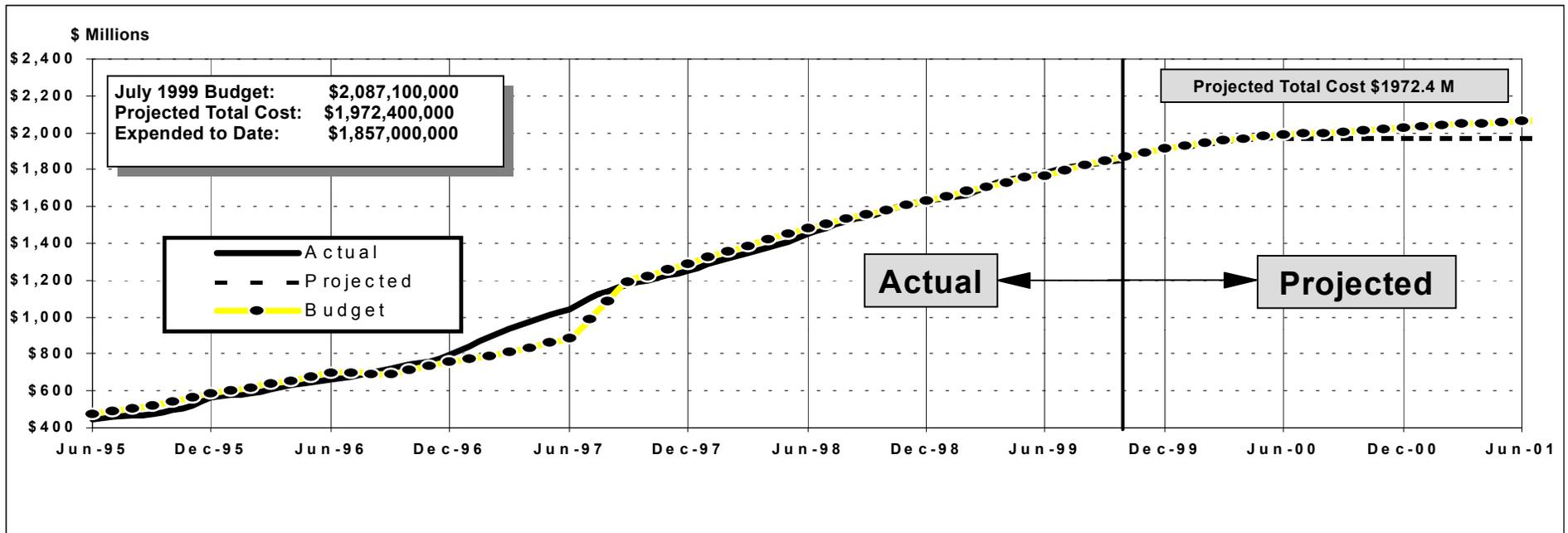
**Attachment 1 – Financial Summary/Project Cash Flow**

**Attachment 2 – Schedule Summary/Remaining Budget**

# Financial Summary



## Project Cash Flow

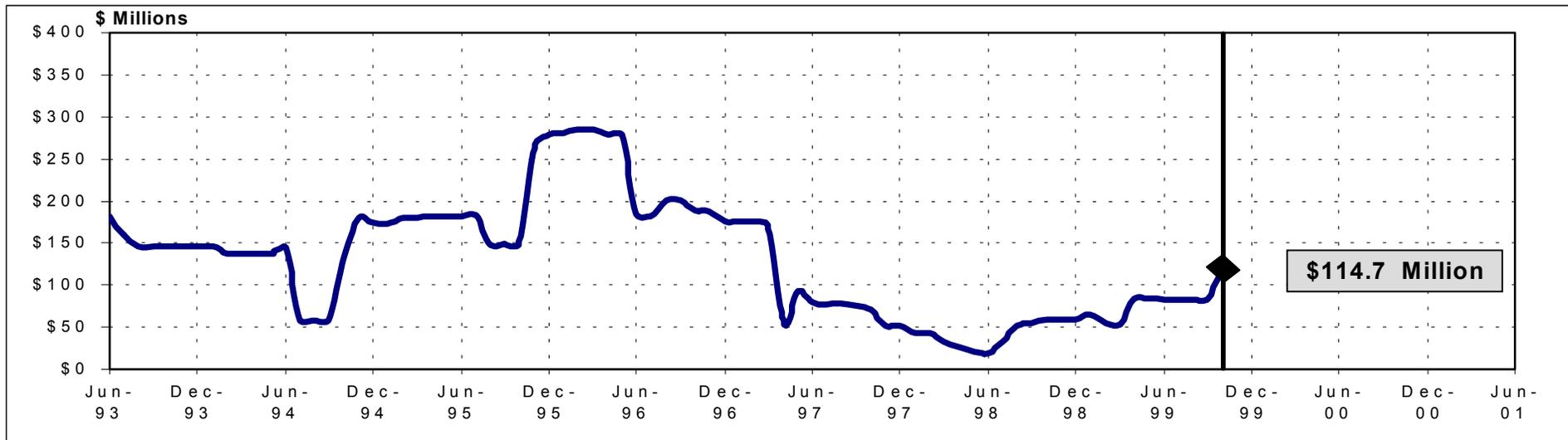


# Schedule Summary

DESCRIPTION	PROGRESS		COMPLETION DATE		COMMENTS
	PLANNED <sup>1</sup>	ACTUAL	CONTRACT <sup>2</sup>	FORECAST	
West Dam - Saddle Dam - Forebay	99%	99%	Nov-99	Dec-99	West Dam essentially complete. Crest road remains to be completed. Remote monitoring units testing delayed.
East Dam Embankment	98%	97%	Nov-99	Dec-99	Nearly on schedule due to increased productivity
Inlet / Outlet Tower	92%	90%	Jan-00	Jan-00	On schedule.
P-1 Pumping Plant	94%	94%	Feb-00	Feb-00	On schedule.
Secondary Inlet	100%	95%	Oct-99	Dec-99	Behind schedule due to manufacturing and delivery delays.
North Rim Remediation	93%	96%	Jan-00	Dec-99	Lost two weeks but still ahead of schedule.
Inland Feeder Pressure Control Structure	96%	95%	Dec-99	Dec-99	Two weeks behind schedule to repair Brico couplings.
West Dam Earthwork	94%	100%	Dec-99	Oct-99	Substantially complete. Fence remains to be installed around Domenigoni property.

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 Total Costs.