Engineering, Operations, & Technology Committee

Colorado River Aqueduct Canal Liner Replacement

Item 8-2

October 13, 2026

Presented by: Vivek Manickam

Item 8-2
Colorado River Aqueduct Canal Liner Replacement

Subject

Award a $14,475,037 contract to Kiewit Infrastructure West Co. to replace the canal concrete liner at 25 locations along the Colorado River Aqueduct (CRA)

Purpose

Enhances the operational reliability of the Colorado River Aqueduct

Recommendation and Fiscal Impact

Award a contract to replace the canal concrete liner along the Colorado River Aqueduct

Fiscal Impact – $17.6 M

Budgeted

Location Map

Background

- Canal constructed in 1930s
- Concrete exposed to temperature changes
- Canal inspections performed on a 3- to 5-year cycle
- Deteriorated & cracked panels identified at several locations during recent inspections
  - 25 locations identified over 40-miles
  - Approx. 90,000 square feet of concrete replacement needed
- Temporary repairs performed during 2026 CRA shutdown by Metropolitan forces
- Last major canal liner replacements occurred in 2002 and 2018

Bulging Concrete Section Along Canal

Cracked Panel

CRA Canal
Liner
Replacement

Alternatives Considered

- Considered Alternative – Replacement by Metropolitan forces
  - Work must be completed during CRA Shutdown
  - Metropolitan forces already scheduled to perform critical maintenance & capital work during shutdown
- Selected Alternative – Contractor to replace canal concrete liner
  - Allows Metropolitan forces to focus on planned shutdown critical infrastructure maintenance activities

Scope of Work

- Contractor
  - Remove deteriorated sections
  - Grading & recompacting subgrade
  - Install new concrete panels
- Metropolitan forces
  - Shutdown & rewatering of the CRA system
  - Construction management & site inspection
  - Project management, contract administration & environmental support

Canal Liner Demolition

New Concrete Liner Placement

Bid Results
Specifications No. 2191

Bids Received	September 9, 2026
No. of Bidders	4
Lowest Responsible Bidder	Kiewit Infrastructure West Co.
Low Bid	$14,475,037
Range of Other Bids	$18,414,760 to $21,444,000
Engineer’s Estimate	$19,000,000
SBE Participation Goal	10%

Allocation of Funds
Colorado River Aqueduct Canal Concrete Lining

Metropolitan Labor		
Owner Costs (Proj. Mgmt., Contract Admin., Envir. Support)	$	187,000
Construction Inspection & Support		1,650,000
Force Construction		100,000
Submittals Review, Tech. Support, Record Drwgs.		175,000
PLA Admin. Consultant		130,000
Environmental Monitoring Consultant		158,000
Contracts		
Kiewit Infrastructure West Co.		14,475,037
Remaining Budget		724,963
Total	$	17,600,000

Project Schedule

Board Options

- Option #1

  Award a $14,475,037 contract to Kiewit Infrastructure West Co. to replace the canal concrete liner at 25 locations along the Colorado River Aqueduct.

- Option #2

  Do not proceed with the project at this time.

Staff Recommendation

- Option #1

THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928