



Colorado River Aqueduct Pumping Plants' Flow Meter Replacement

Engineering & Operations Committee

Item 7-5

June 10, 2013

Current Action

- Appropriate \$1.63 M
- Authorize construction for replacement of flow meters at 5 CRA pumping plants

CRA Location Map

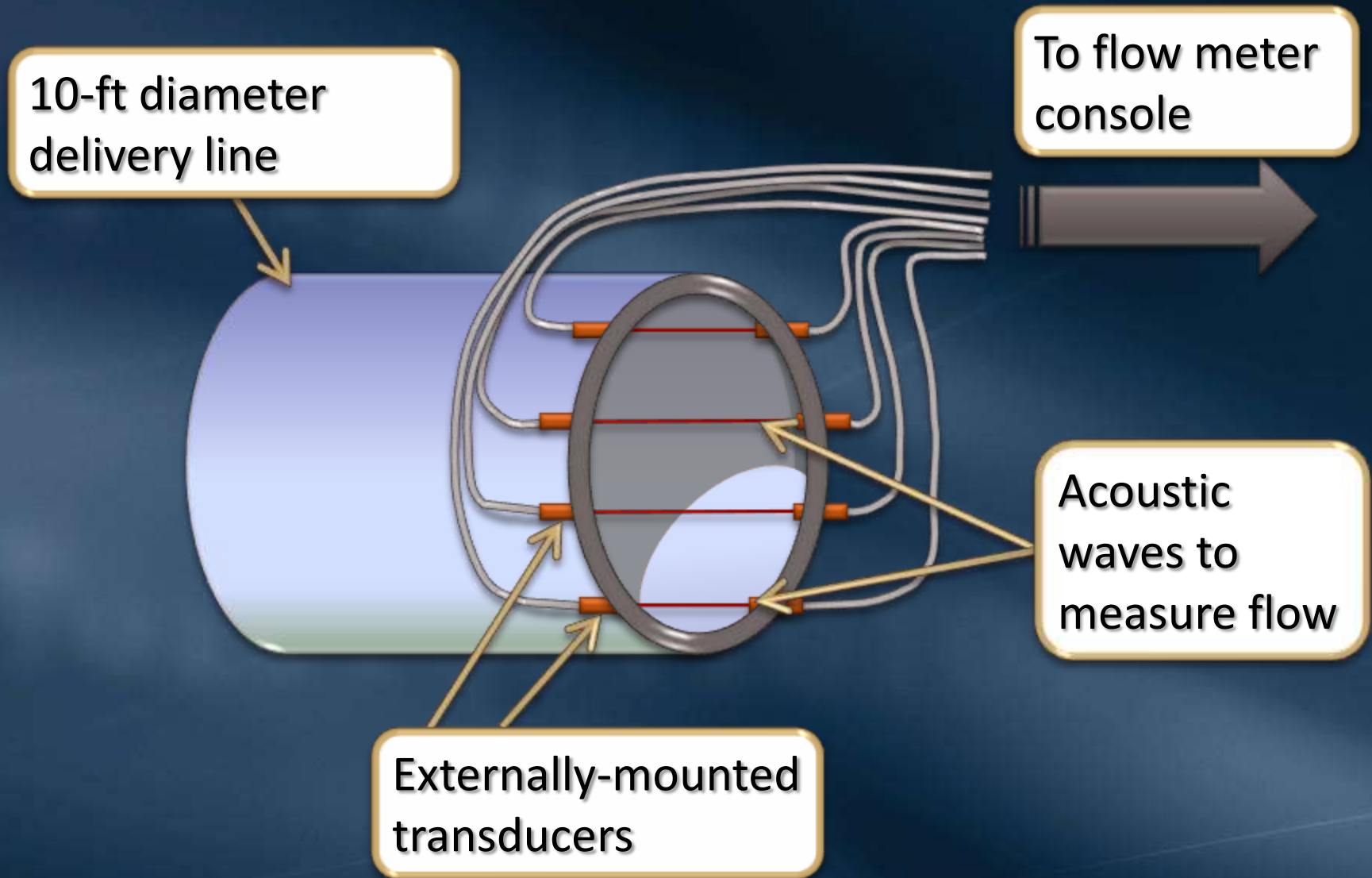


Background



- Flow meter issues:
 - Typical service life: 15-20 yrs
 - Electromagnetic interference
 - Potential for aqueduct spills

Acoustic Flow Meters



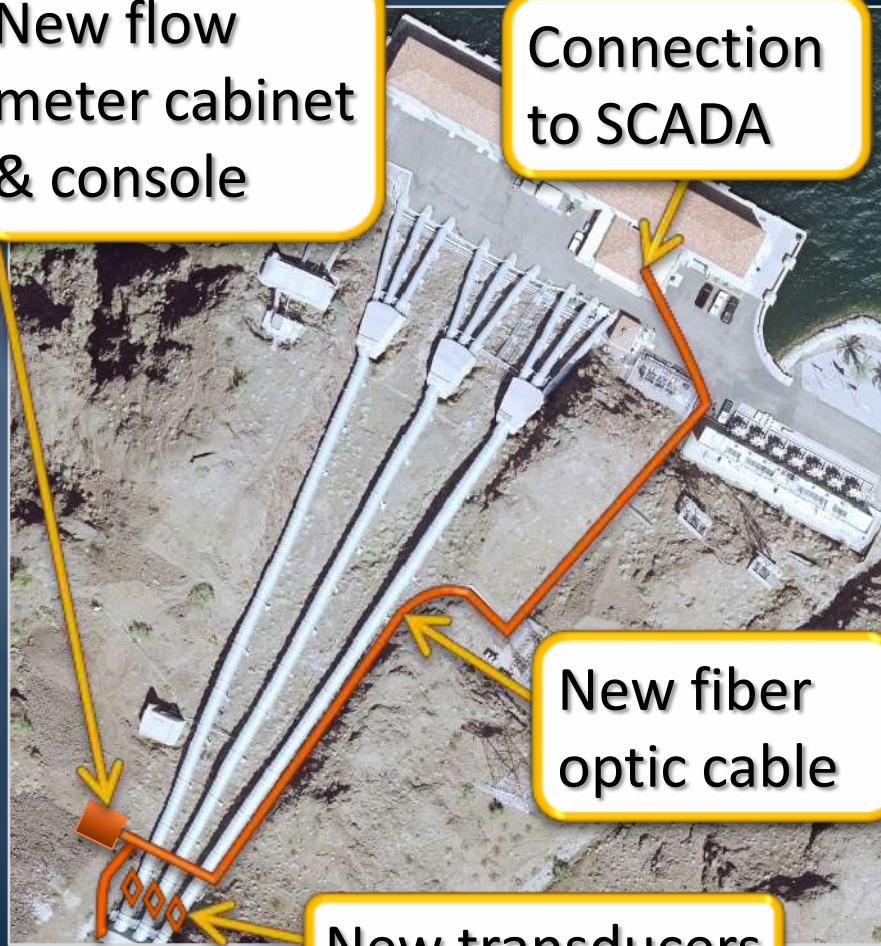
Scope of Construction

New flow meter cabinet & console

Connection to SCADA

New fiber optic cable

New transducers



- Procurement
 - Flow meters
 - Fiber optic cables
 - Cabinets & elect. equip.
- Met Forces Constr.
 - Grading & concrete
 - Fiber optic system
 - Equipment installation
 - Install transducers

Flow Meter Equipment Bid Results

Specifications No. 1754

| | |
|-----------------------|------------------------------------|
| Bids received: | April 30, 2013 |
| No. of bidders: | 2 |
| Low bidder: | ADS LLC dba Accusonic Technologies |
| Low bid amount: | \$194,197 |
| Other bid: | \$288,410 |
| Budgetary cost range: | \$260,000 - \$320,000 |
| SBE Participation: | NA |

Requested Funds

Labor

| | |
|-------------------------------------|------------|
| Metropolitan Force Construction | \$ 700,000 |
| Proj. Mgt. & Envir. Monitoring | 42,000 |
| Submittals Review & Record Drawings | 59,000 |
| Fabrication Inspection | 7,000 |

Materials & Supplies 403,000

Incidentals 15,000

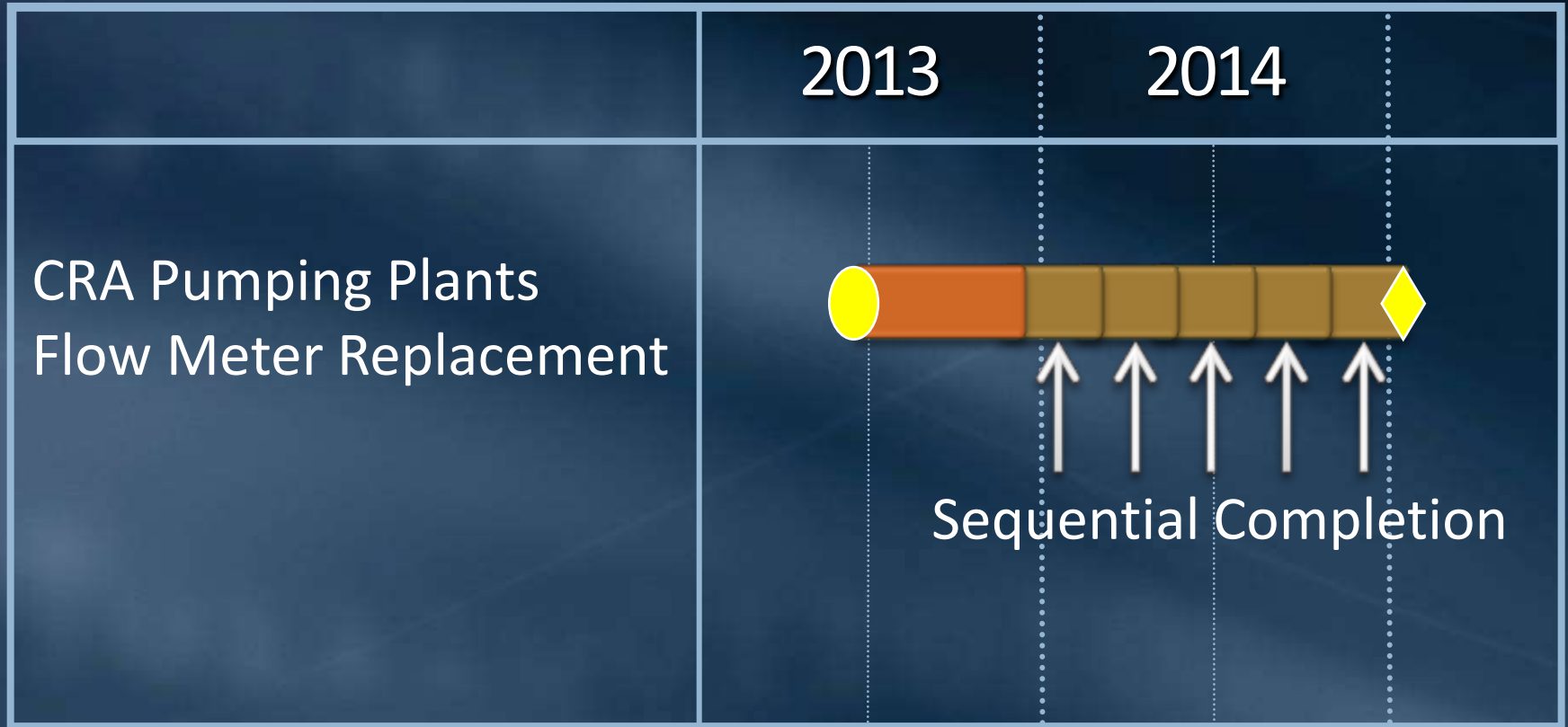
Contract 194,197

Remaining Budget 209,803

Total **\$1,630,000**

Total cost of construction: \$1,311,000

Schedule



 **Board Action**

 **Procurement**

 **Construction**

 **Completion**

Board Options

- Option #1
 - Adopt CEQA determination
 - Appropriate \$1.63 M
 - Authorize construction to replace flow meters at the five CRA pumping plants
- Option #2
 - Do not authorize construction at this time

Staff Recommendation

- Option #1

