



Palos Verdes Reservoir Rehabilitation

Engineering & Operations Committee

Item 8-2

November 9, 2015

Current Action

- Appropriate \$36.2 million
- Award \$29.56 million contract to OHL USA, Inc. to rehabilitate Palos Verdes Reservoir
- Authorize agreement with CDM Smith, Inc. in an amount NTE \$713,000

Distribution System



Jensen Plant

Weymouth Plant

Diemer Plant

Palos Verdes Reservoir

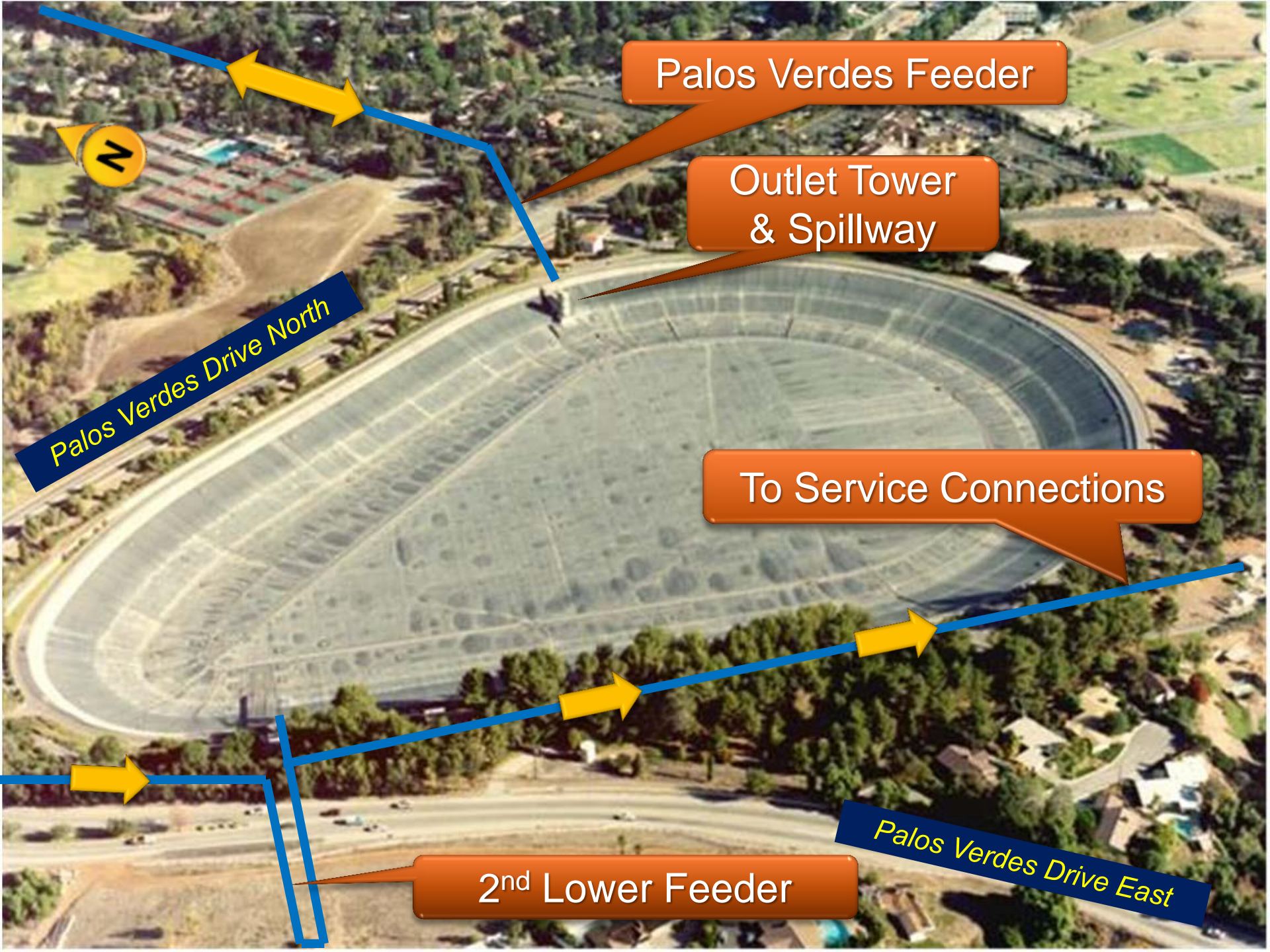
Palos Verdes Reservoir c. 1940



Palos Verdes Drive North

Palos Verdes Drive East





Palos Verdes Feeder

Outlet Tower
& Spillway

To Service Connections

2nd Lower Feeder

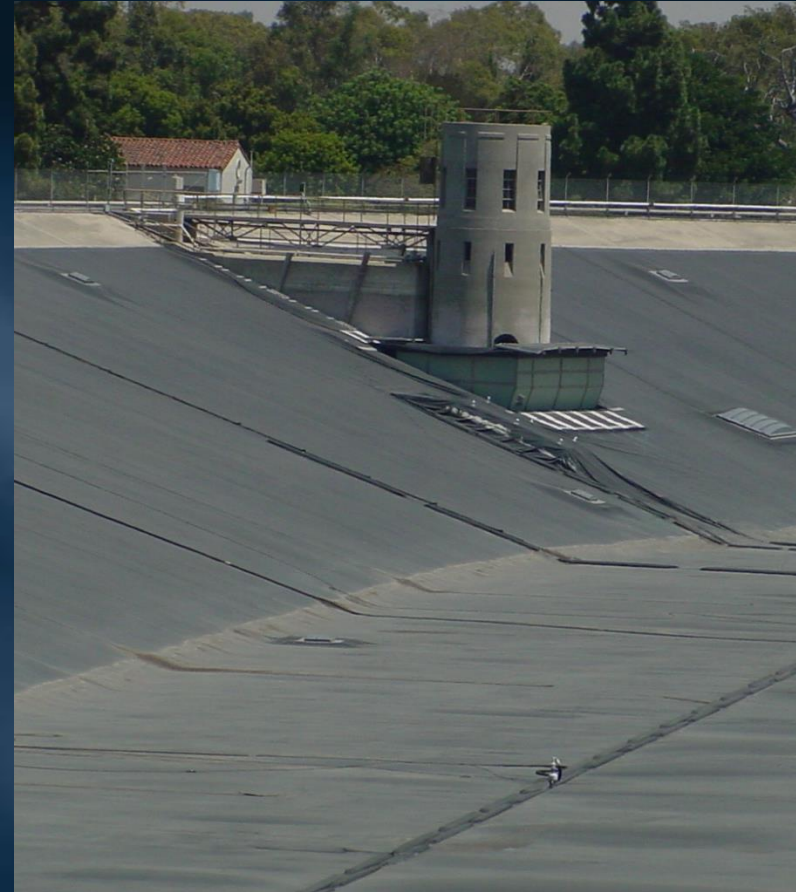
Palos Verdes Drive North

Palos Verdes Drive East

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Background

- Existing cover removed
- Reservoir seismic assessment completed
- Presented to Rolling Hills Estates city council
- Final design completed (May 2015)
- MND certified by Board (July 2015)
- DSOD approval received (August 2015)



Contractor Scope

- Replace liner with asphalt & geomembrane
- Install underdrain system
- Modify outlet tower, spillway, inlet & outlet structures
- Upgrade existing disinfection system
- Upgrade WQ building
- Upgrade electrical service
- Replace floating cover

Metropolitan Scope

- Metropolitan force activities
 - 3 separate feeder shutdowns
 - Start-up & testing
- Construction mgmt. & fabrication inspection
- Public outreach
- Emergency action plan & inundation map

Bid Results

Specifications No. 1771

Bids Received	September 24, 2015
No. of Bidders	7
Low Bidder	OHL USA, Inc.
Low Bid	\$29.56 M
Range of Other Bids	\$29.7 M to \$38.8 M
Engineer's Estimate	\$41 M

* SBE (Small Business Enterprise) participation goal – 28%

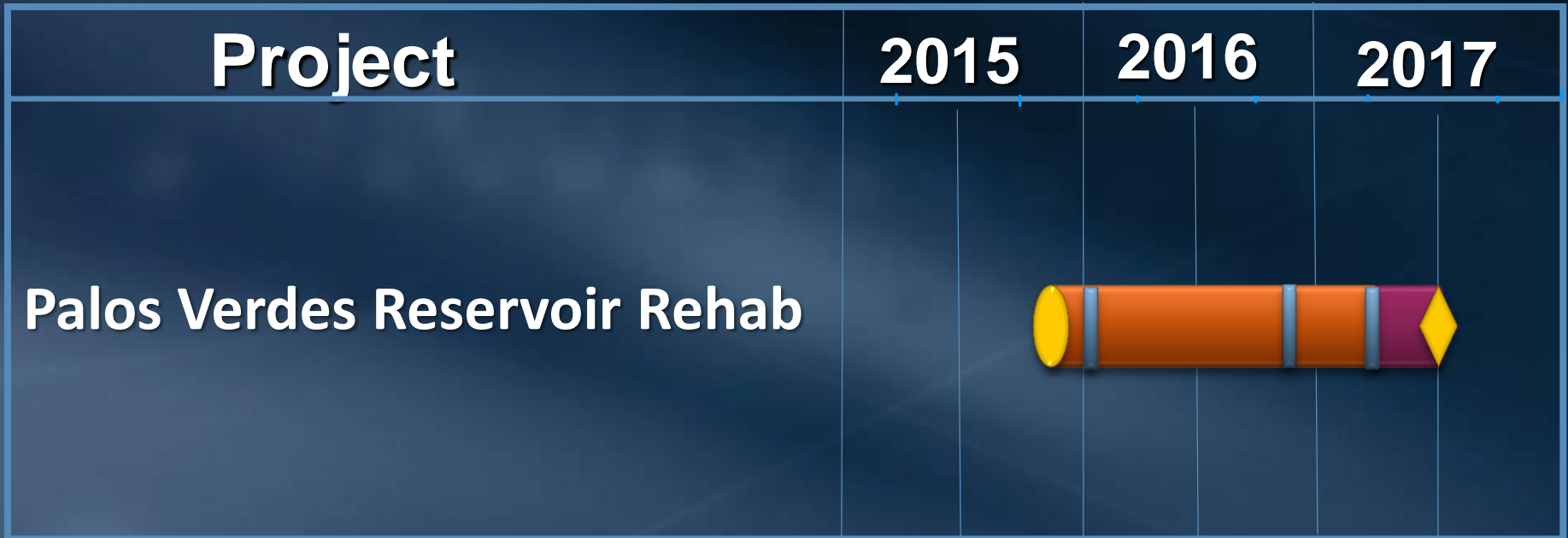
Technical Support

- CDM Smith, Inc. – New Agreement
 - Engineer of Record
 - Scope of work
 - Review submittals & respond to RFIs
 - Advise staff on tech. issues
 - Prepare record drwgs
 - SBE participation level - 18 percent
 - Estimated cost - \$713,000
- Rincon Consultants – No Action Required
 - Scope of work
 - Envir. monitoring of const. & reporting
 - Air quality, traffic, noise, & biological monitoring
 - SBE participation level - 18 percent
 - Estimated cost - \$80,000

Requested Funds

Construction contract	\$ 29,560,000
Labor	
Met. force construction	760,000
Construction inspection	2,061,000
PM, permitting, project controls	711,000
Inundation map & emerg. action plan	200,000
Materials & Incidental Expenses	310,000
Professional services	
CDM Smith, Inc.	713,000
Rincon Consultants, Inc.	80,000
Remaining budget	1,805,000
Total	\$36,200,000

Schedule



Construction



Shutdown



Start-up, Testing
& Commissioning



Board Action



Completion

Board Options

● Option #1

- Review & consider the information contained in Addendum No. 1 & the MND, & find that the proposed modifications will not have a significant impact on the environment
- Appropriate \$36.2 million
- Award \$29.56 million contract to OHL USA for rehabilitation of Palos Verdes Reservoir
- Authorize agreement with CDM Smith, Inc. in an amount NTE \$713,000

● Option #2

Do not proceed with the project at this time

Staff Recommendation

- Option #1

