



# TODAY'S ACTION

## Consider:

- a) Authorizing preliminary actions to prepare a project description and perform other engineering and design work to commence environmental review for the Interlake Tunnel Project;
- b) Requesting the Monterey County Board of Supervisors authorize proceeding with negotiation and execution of a funding agreement between Monterey County and the Monterey County Water Resources Agency for an amount not to exceed \$2.5 million to perform the necessary work to commence environmental review of the Interlake Tunnel Project, said funds to be reimbursed to Monterey County if the Project is approved and financed; and
- c) Authorizing the General Manager of the Monterey County Water Resources Agency to enter into the necessary agreements to prepare for and commence environmental review of the Interlake Tunnel Project in an initial amount not to exceed \$500,000 provided funding is approved by Monterey County.





# Prior BOD/BOS Action

- None



# Financial Impact

- Funding Agreement would advance funds to the Agency from the County for pre-construction tasks on this critical project.
- County, upon Agency receipt of total project financing, will be reimbursed amounts advanced.



# Discussion

- Interlake Tunnel Project mentioned in 1991 “*Water Capital Facilities Plan*”.
- Previous reservoir operations limitations minimized the project’s effectiveness
- SVWP removed majority of limitations
  - Increased storage flexibility
- Project has increased feasibility today vis-a-vis 1991



## Discussion (cont.)

- Nacimiento Reservoir fills 3x faster than San Antonio Reservoir
- Project leverages water that would currently spill from Nacimiento
- Opportune time with current reservoir levels
- Project could provide up to an additional 60,000 acre-feet of water annually



Lake San Antonio

Proposed Tunnel Alignment

Lake Nacimiento

Google earth

Imagery Date: 8/23/2013 35°46'00.42" N 120°54'07.76" W elev 847 ft eye alt 12.86 m

**San Antonio Dam**

**Proposed Tunnel Alignment**

**Nacimiento Dam**

Google earth

1994

Imagery Date: 8/23/2013 35°46'08.81" N 120°53'39.97" W elev 1233 ft eye alt 7355 ft



## Discussion (cont.)

- Interest in this project has increased recently
- Monterey County / State in extreme Drought
- San Antonio level is very low – at 4% of capacity
- Tunneling is performed from low to high point





# Discussion (cont.)

- Project Benefit Summary
  - Capture of an additional 60,000 acre-feet (or so, when available)
  - Additional flood control benefit for Salinas Valley
  - Maintains a higher, long-term reservoir level for recreational purposes at Nacimiento and San Antonio
  - Negligible impacts from tunnel construction and operations



# Discussion (cont.)

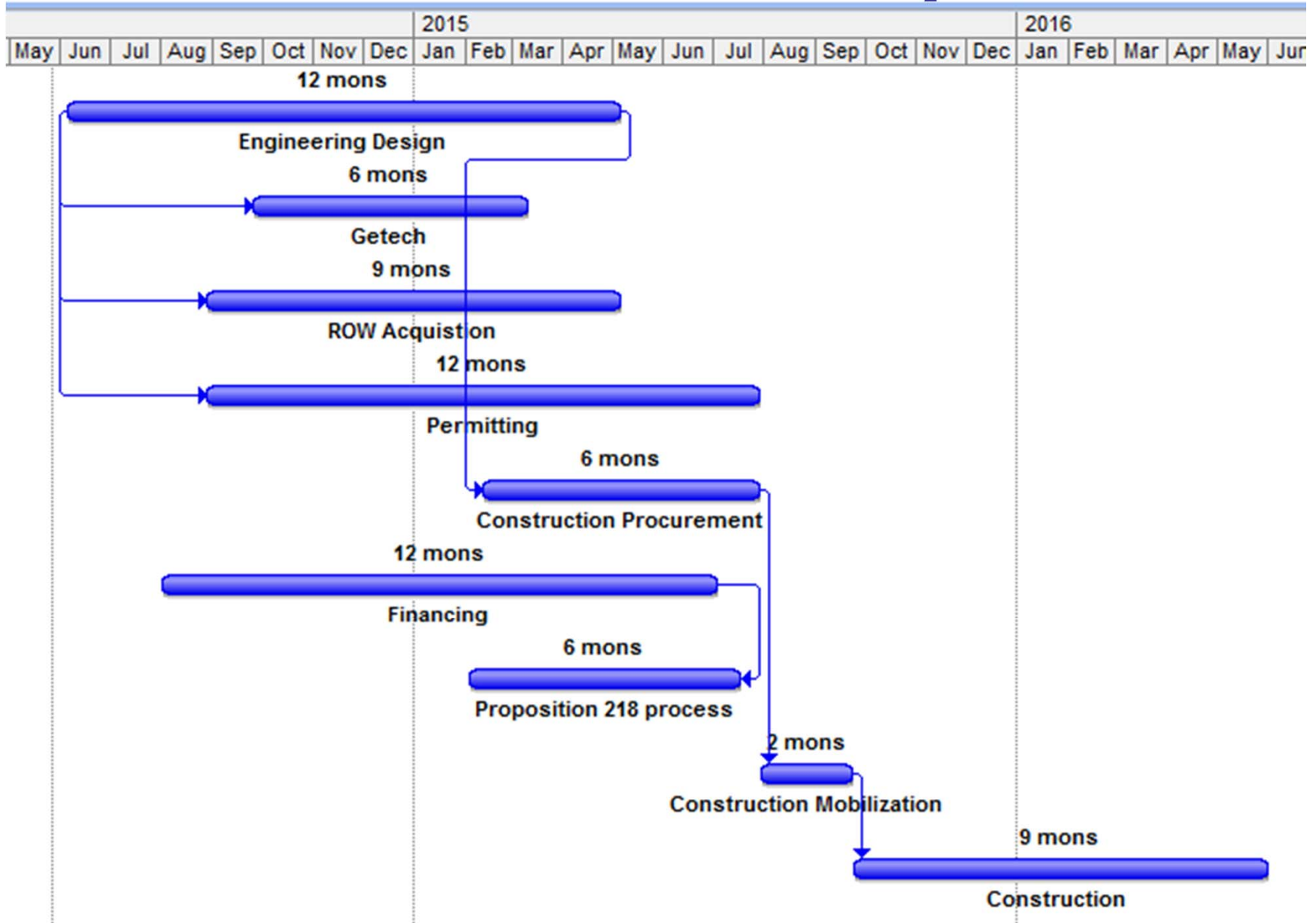
- Project requires engineering analysis
  - Three Phases
    - Preliminary Engineering and Water Rights
    - Remaining Pre-construction Tasks
    - Construction
  - Successful completion will require Program and Construction management services



# Discussion (cont.)

- Requesting authorization to move forward with entire project:
  - Initial draw of \$500,000
    - Preliminary engineering
    - Water Rights requirement analysis
    - Program Management
  - Future draws will require BOS approval
  
- Proposed Time line and Budget
  - Approximately 1.5 to 2 years
  - Approximately \$25M

# Interlake Tunnel Schedule Summary



# Project Budget (proposed)

Category	Description	Unit/Measure	Quantity	Unit Cost	Total Cost (\$000)
<b>Program Management</b>	Program Management and Engineering Management	LS	1	\$1,298,689.84	\$1,299
<b>Construction</b>	Mobilization	LS	1	\$100,000.00	\$100
	Portal Construction	LS	2	\$500,000.00	\$1,000
	Tunnel Excavation and Support	LF	10,000	\$1,500.00	\$15,000
	Mechanical systems	LS	1	\$1,000,000.00	\$1,000
	Testing and Startup	LS	1	\$200,000.00	\$200
<b>Engineering Design Services</b>	Civil/Hydraulics Design Consultant	Hours	1,608	\$300.00	\$482
	Survey Consultant	Hours	320	\$120.00	\$38
	Geotechnical Consultant	Hours	640	\$250.00	\$160
	Tunnel Design Consultant	Hours	1,420	\$300.00	\$426
<b>Grant</b>	Grant Consultant	Hours	240	\$150.00	\$36
<b>Legal</b>	Legal Consultant	Hours	340	\$400.00	\$136
<b>Environmental</b>	Environmental Consultant	Hours	680	\$280.00	\$190
<b>Construction Management</b>	Construction Management	Hours	6,800	\$200.00	\$1,360
<b>Financing</b>	Proposition 218 financing process	LS	1	\$250,000.00	\$250
<b>Expenses and Other Direct Costs</b>		LS	1	\$300,000.00	\$300
<b>Project Contingency</b>					\$3,400
<b>Total</b>					\$25,378



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Approve:

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