

# **Leland Reservoir and Pipeline Replacement Project**

## **Community Meeting #1**

**The Meher Schools**

**August 3, 2016**

**6-8 pm**

# Project Team



## **EBMUD**

- David Rehnstrom, PE, Water Distribution Planning Division Manager
- Jeni McGregor, PE, Senior Engineer
- Oscar Herrera, PE, Project Manager
- Kathryn Horn, Community Affairs

## **Consultants**

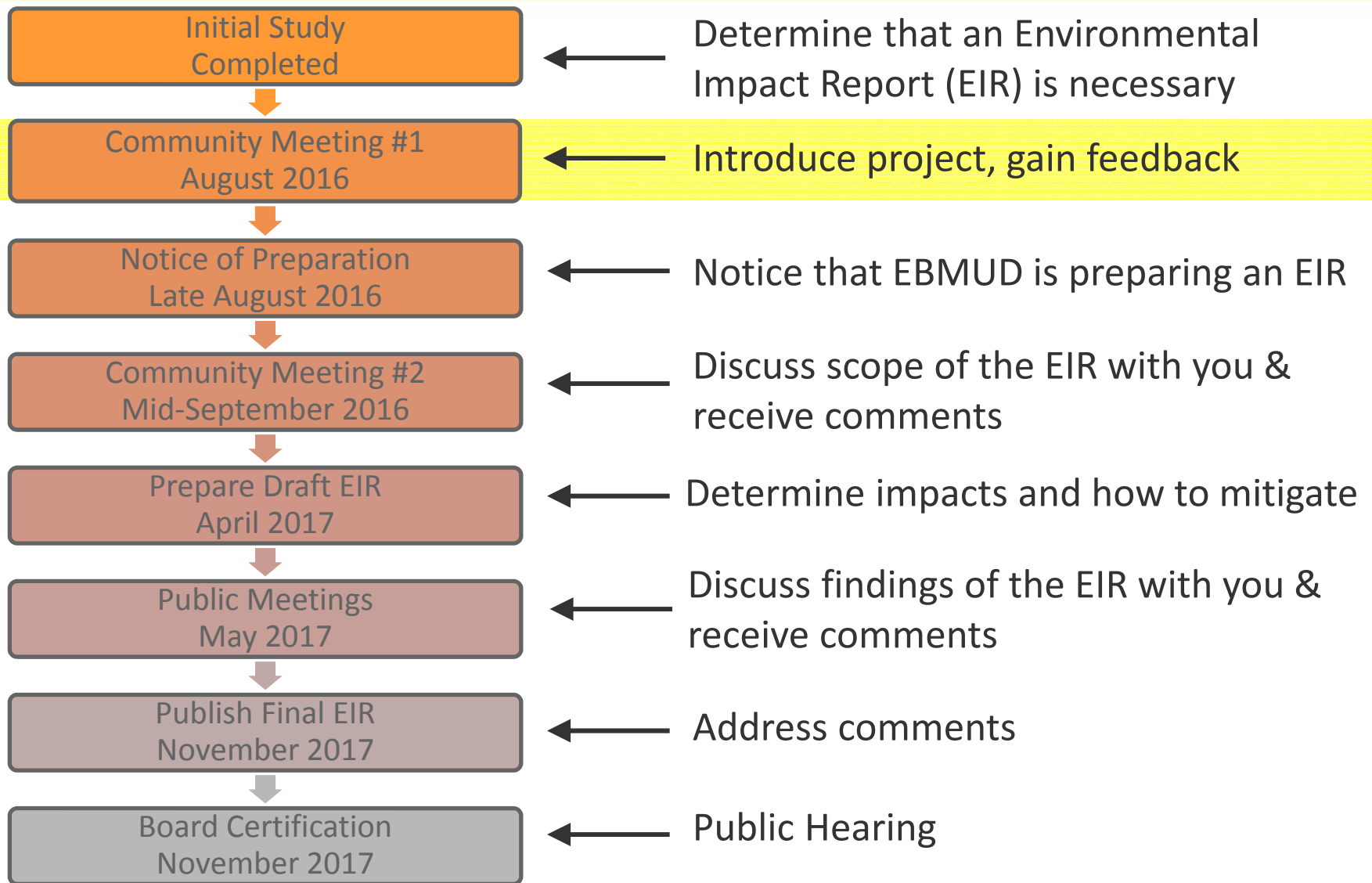
- Robin Cort, Ph.D., RMC Water & Environment
- Barbara Lundburg & Chelsea Andersson, RHAA Landscape Architects
- Karen Burks, Burks-Toma Architects

# Purpose and Overview



- **Purpose (EBMUD)**
  - Leland Reservoir & Pipeline Replacement Project and Environmental Impact Report
- **Presentation Overview (EBMUD)**
  - CEQA Planning Process & Purpose
  - Overview of EBMUD Water System
  - Existing Reservoir & Project Need
  - Project Description
  - Project Schedule
  - Next Steps
- **Site Planning Concepts (RHAA)**
- **Feedback & Discussion / Q & A**

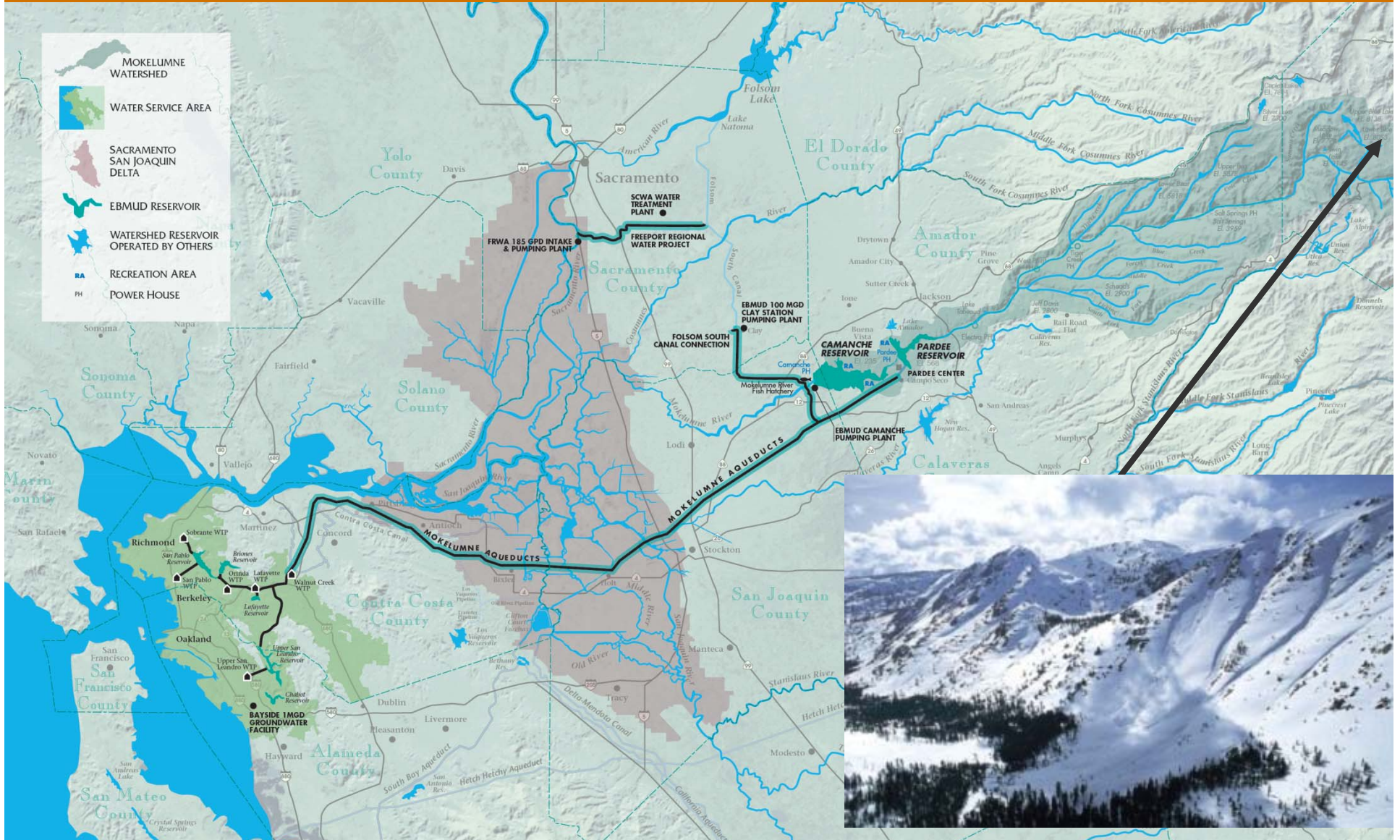
# CEQA Planning Process & Purpose



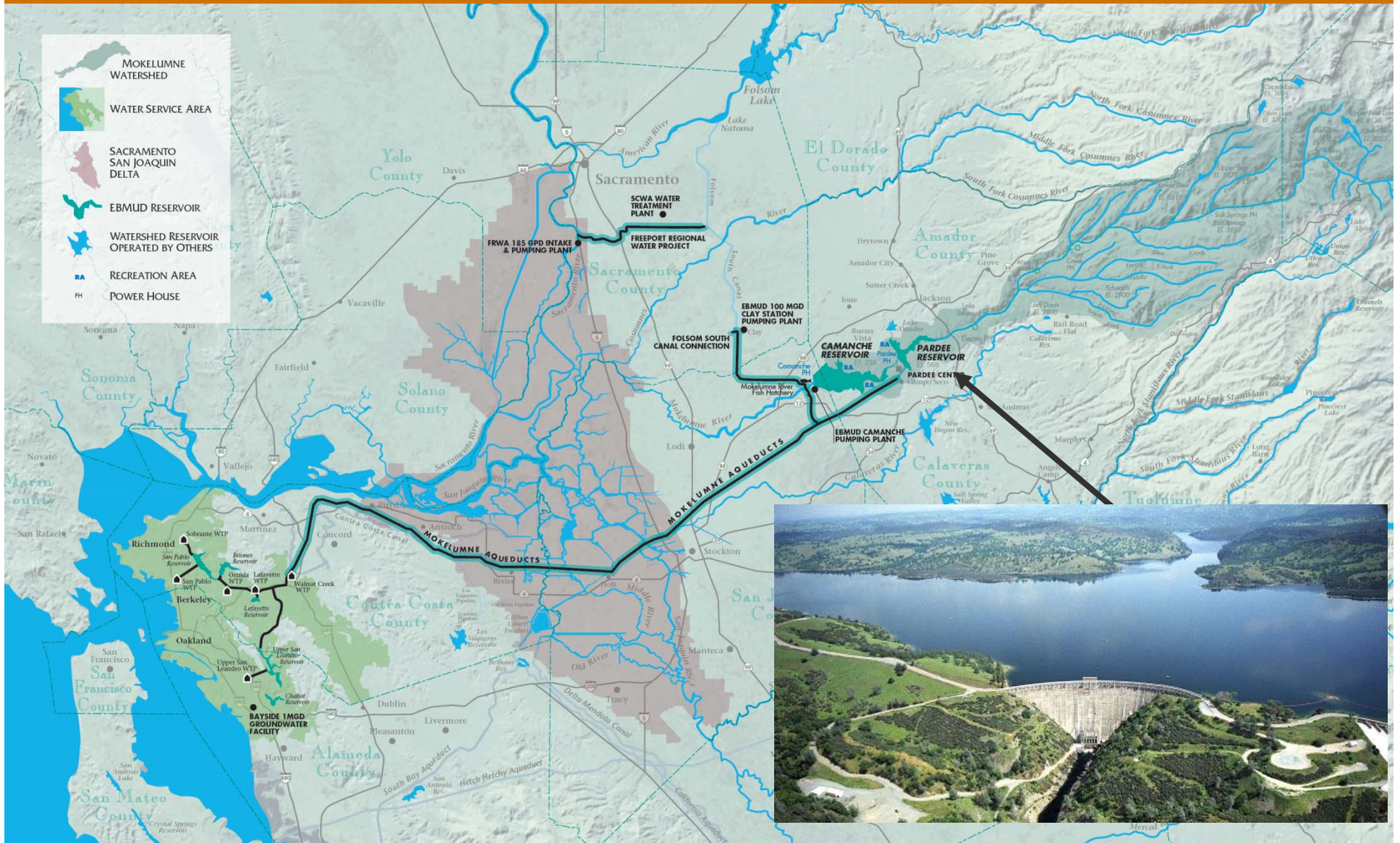


# About your Water Supply

# Water Supply System



# Water Supply System

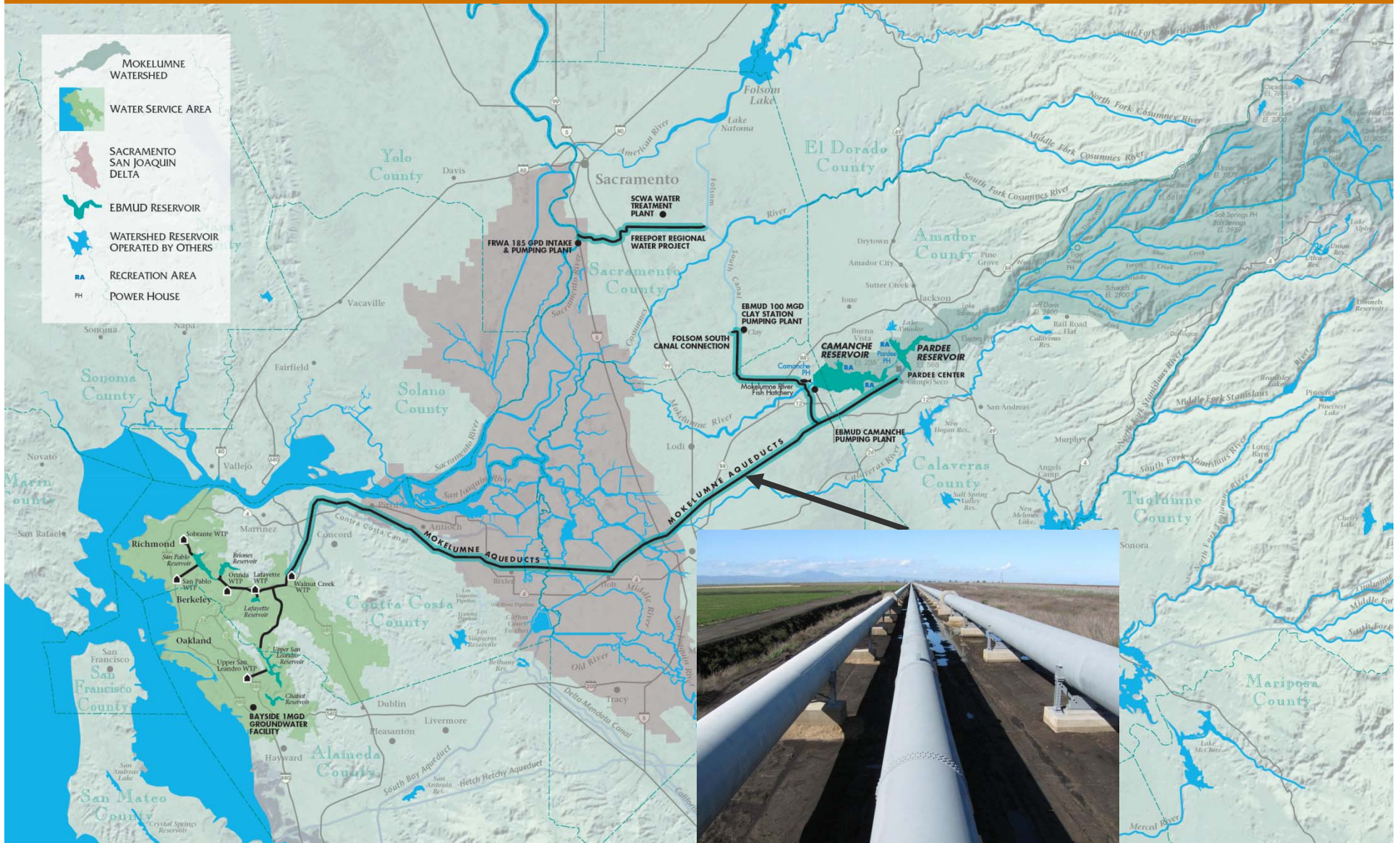


# Water Supply System

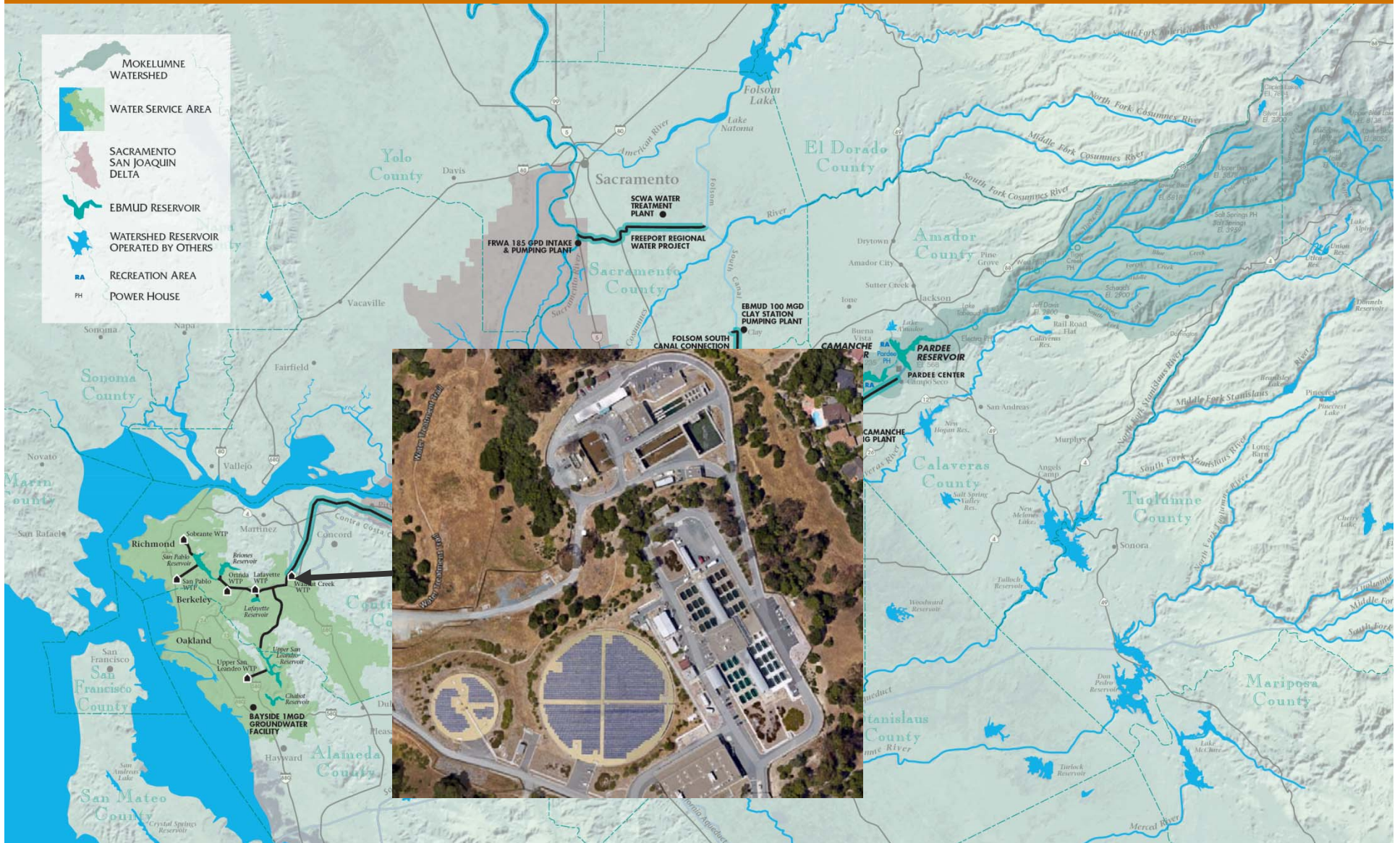




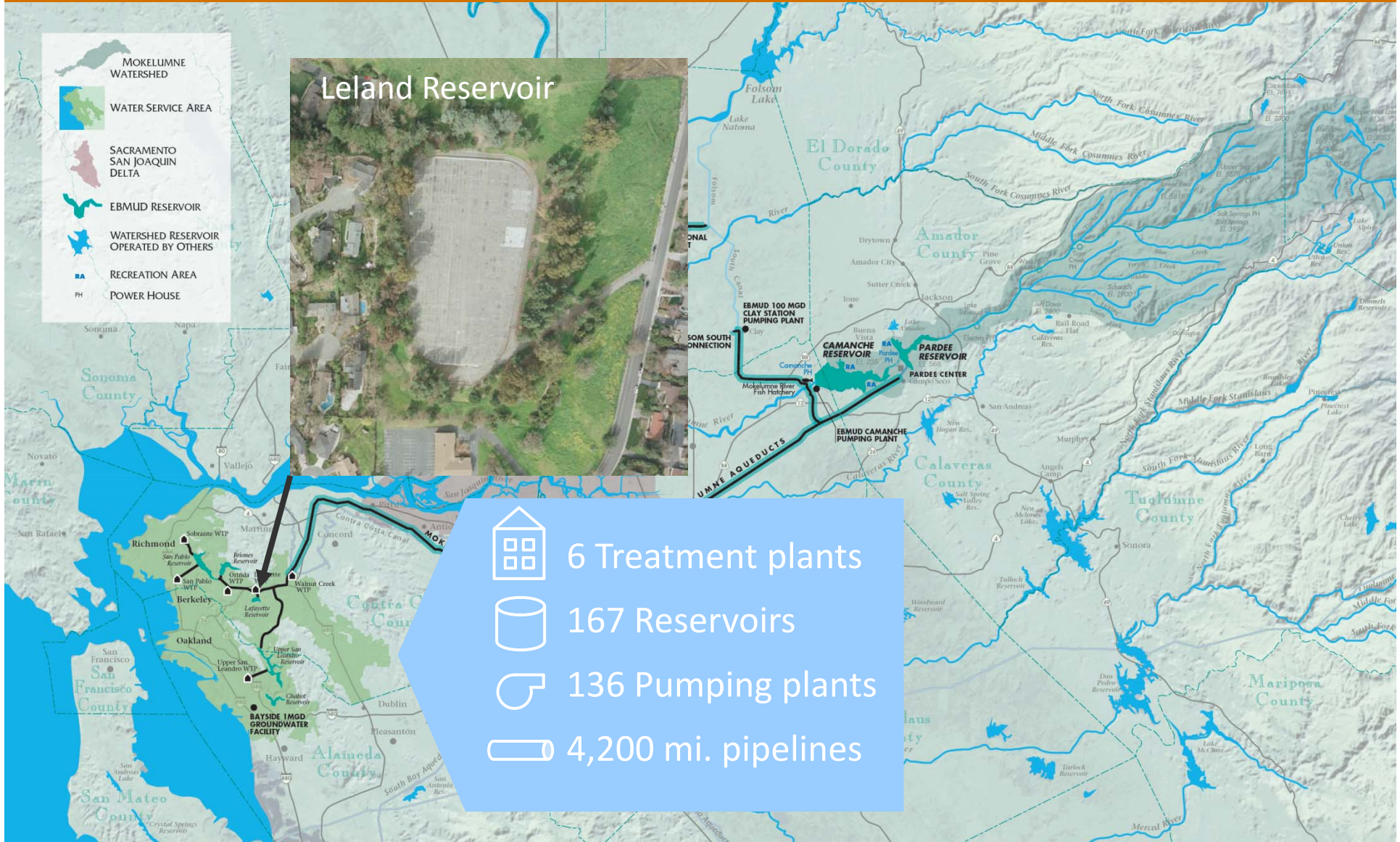
# Water Supply System



# Water Supply System



# Water Supply System





# About Leland Reservoir

# Leland Reservoir



- 14.5-acres opposite 1050 Leland Drive
- Constructed 1955, 18-million gallon open-cut reservoir
- Serves Lafayette, Walnut Creek, Pleasant Hill



# Open-cut reservoir



LELAND RESVR  
4-64

CA State Hwy 24

Maryola Ct

Mars Ct

Sun Valley  
Bible Chapel

Meher Field

Patty Way

Leland Drive

Sunset Loop





CA State Hwy

Maryola Ct

Mars Ct

Sun Valley Bible Chapel

Meher Field

Patty Way

Sunset Loop







**What is the Leland Reservoir & Pipeline Replacement Project and Why Do We Need it?**

# Leland Reservoir & Pipeline Replacement Project



Abandon existing transmission main

Replace 18-MG reservoir with two 8-MG concrete tanks

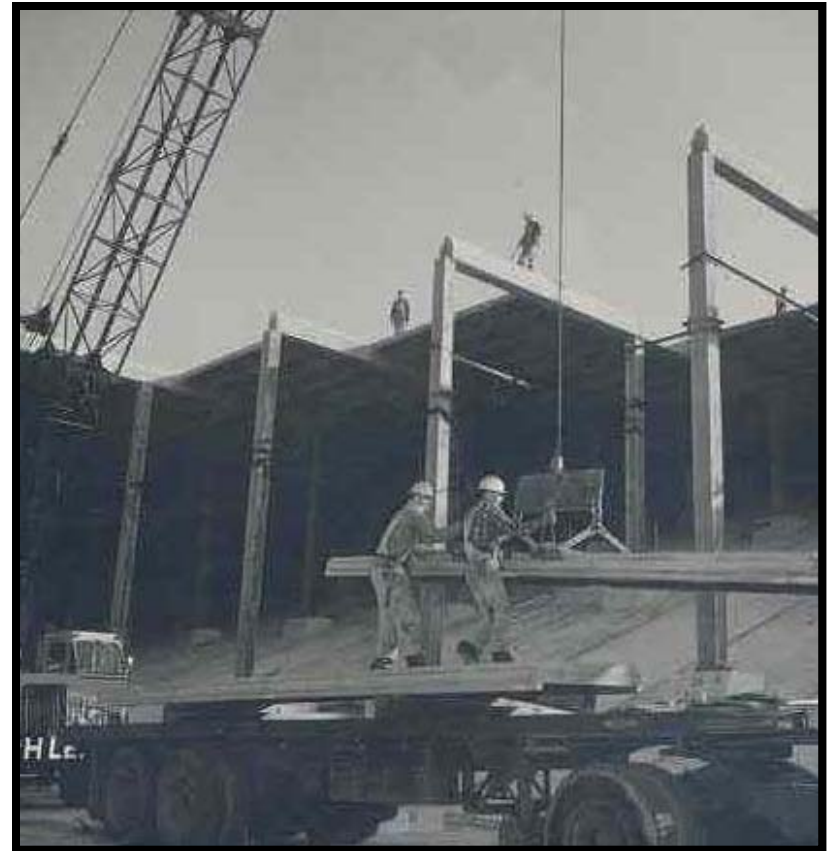
Install 950 feet of 36-inch main on EBMUD property

Install 2,700 feet of 36-inch main

# Need for the Project



- Correct inaccessible transmission pipeline
- Replace aging electrical & mechanical equipment
- Replace structure that is unsafe for personnel to access



Leland Reservoir Construction (1950s)



**How would the Pipelines and Reservoir be Constructed?**

# Pipeline Construction & Progress

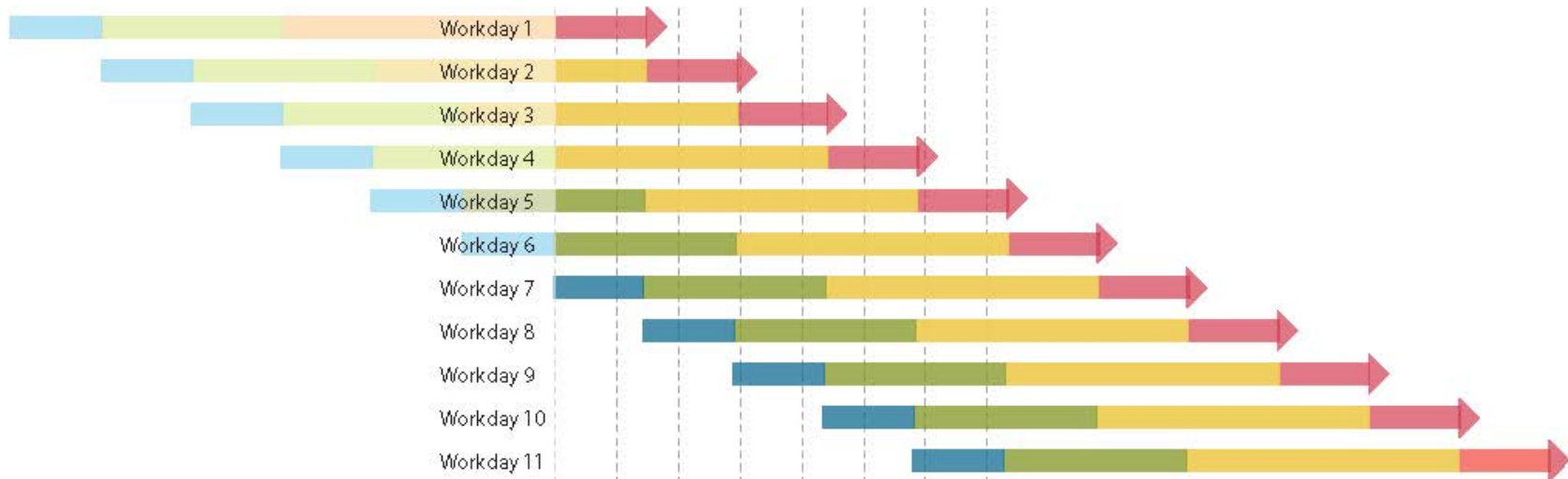


## Open Trench Construction Activities



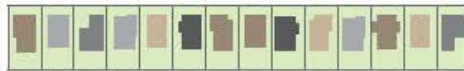
Construction Process Train - 1,000 feet

Production Rate: 80 - 200 feet per day



Final Construction Activity

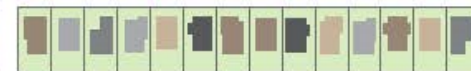
Final Paving



Block 1



Block 2



Block 3

# Unload Pipe From Truck



# Dig Trench



# Lower Pipe Into Trench





# Weld Pipe Segments Together



# Backfill & Compact Trench



# Place Asphalt



# Reservoir Replacement



CA State Highway 24

Leland Drive

Image Landsat



CA State Highway 24

Remove & replace trees



CA State Highway 24

Demolish roof  
& lining



CA State Highway 24

Construct access road

Leland Drive





CA State Highway 24

Excavate soil for tank construction

Leland Drive



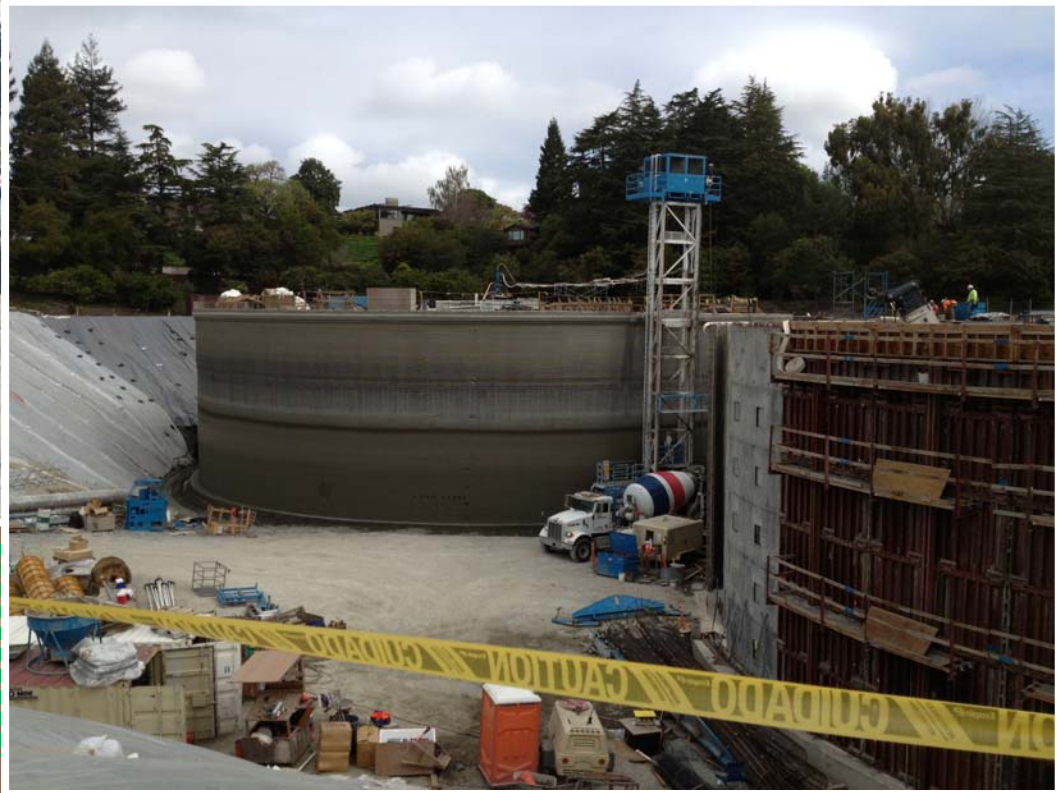
CA State Highway 24

Construction



CA State Highway 24

Construct tanks



CA State Highway 24

Use excavated soil to backfill around tanks

Construct tanks

Construct pipelines

Stockpile Soil

Leland Drive



**Estimated Construction = 2 years**

*CA State Highway 24*

**Construct fencing and landscaping**



# Project Schedule



Environmental Impact Report  
2016-2017



Design  
2018-2019



Construction  
2020-2022

# Next Steps



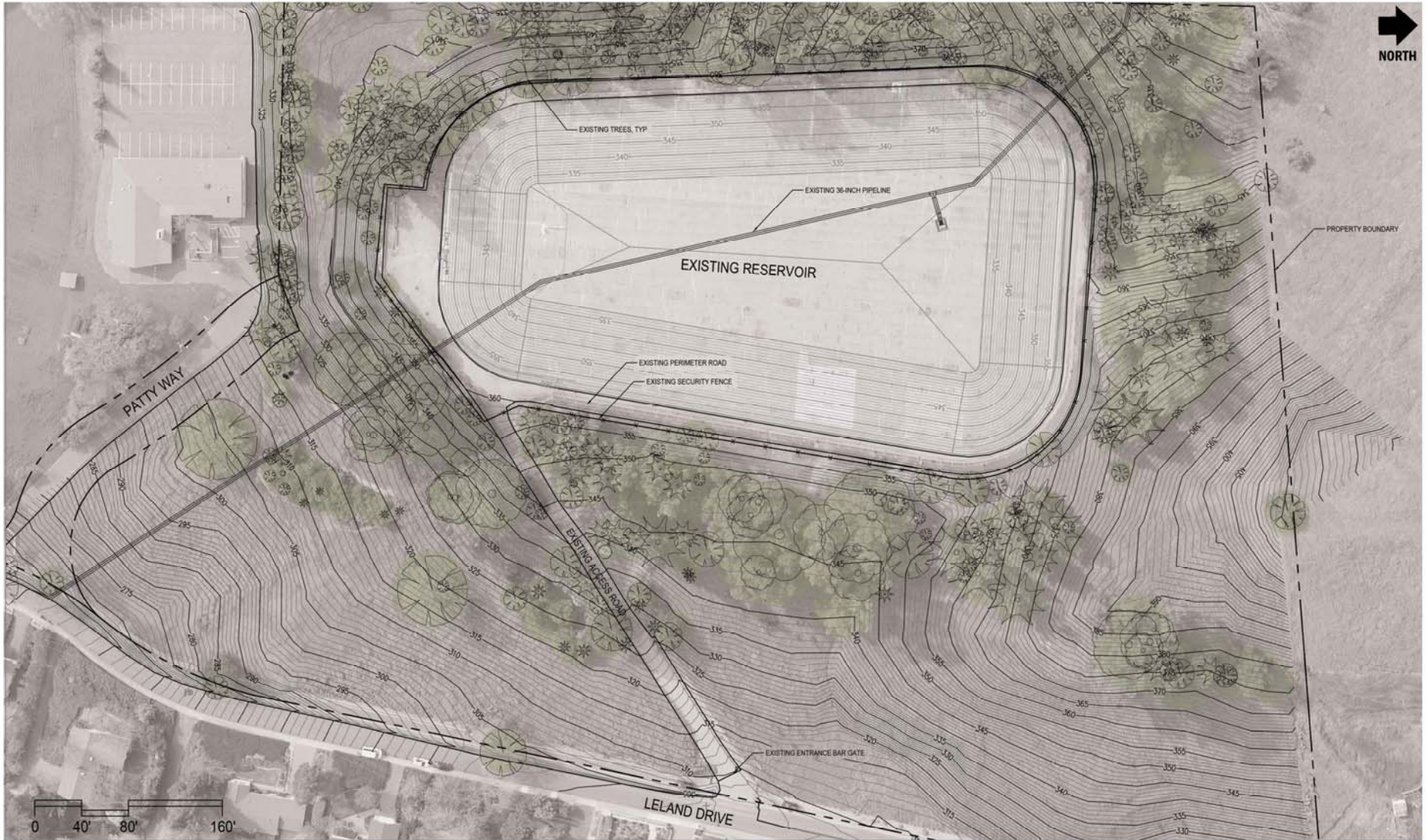
- **Release Notice of Preparation**
  - Late August 2016
- **Community Meeting #2 – EIR Scoping**
  - Mid-September 2016
- **Publish Draft EIR**
  - April 2017

The slide features a background image of a large, mature tree with a thick trunk and dense green foliage, standing in a field of tall, green grass. The scene is brightly lit, suggesting a sunny day. At the top of the slide is a decorative horizontal bar with a blue-to-green gradient and a grid pattern. At the bottom is a similar decorative bar with a grey-to-black gradient and a grid pattern.

# **Site Planning Concepts**

*Barbara Lundburg, RHAA*





**Leland Reservoir**  
 Lafayette, CA  
 03 AUG 2016

**Existing Conditions Plan**

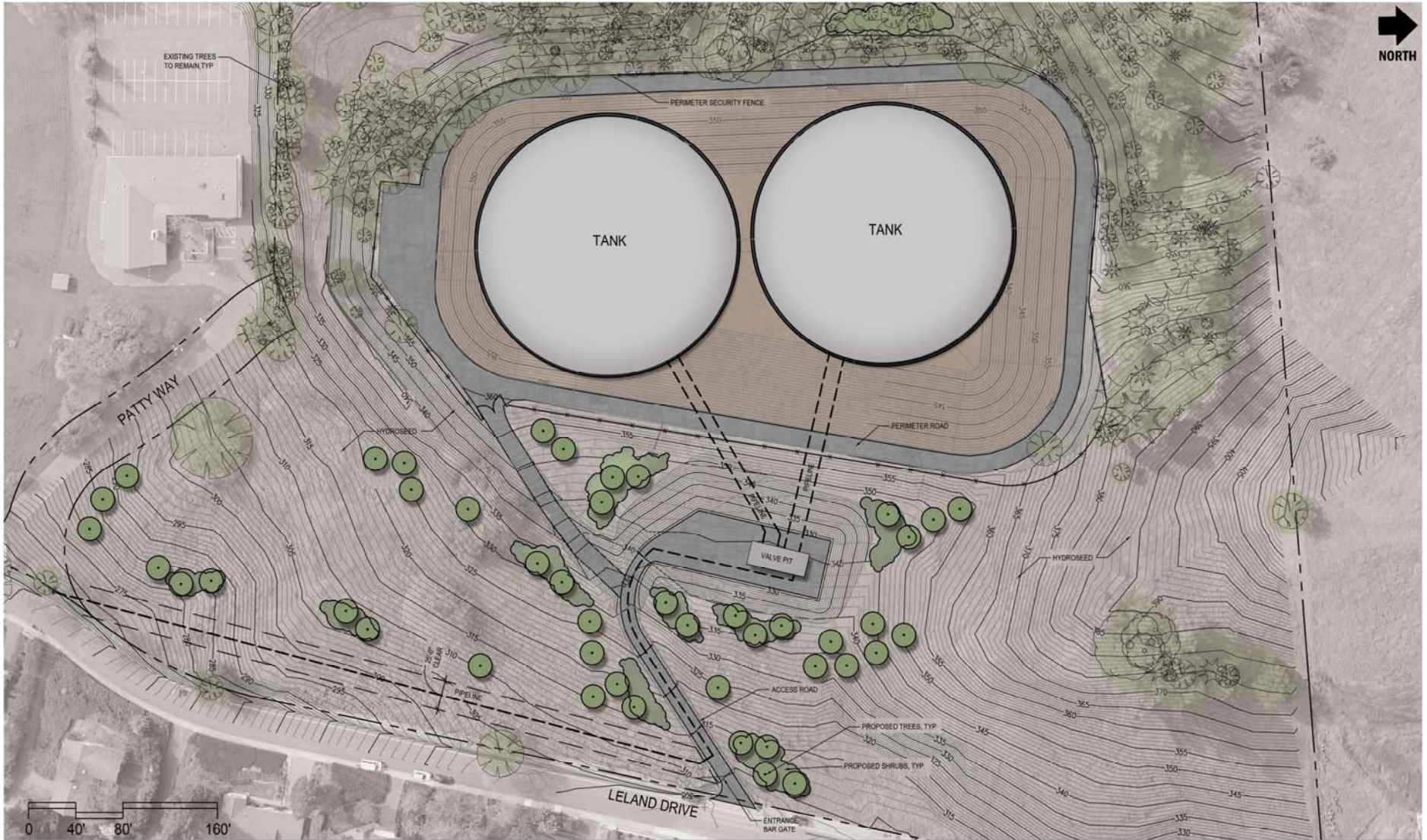




**Leland Reservoir**  
 Lafayette, CA  
 03 AUG 2016

**Alternative 1 Concept Plan**





Leland Reservoir  
 Lafayette, CA  
 03 AUG 2016

Alternative 2 Concept Plan





EXISTING CONDITIONS - CONTEXT



	1040 Leland Drive	1042 Leland Drive	1044 Leland Drive	1046 Leland Drive	1048 Leland Drive
EXISTING					
ALTERNATIVE 1					
ALTERNATIVE 2					

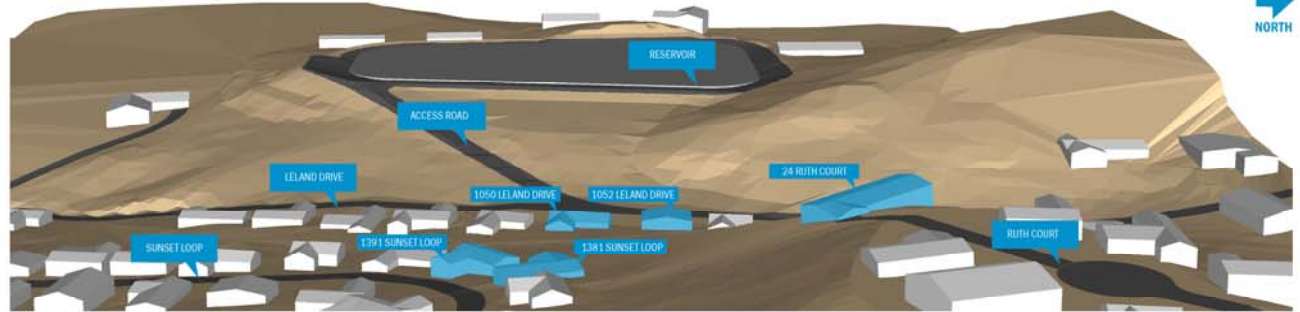
Leland Reservoir  
Lafayette, CA  
03 AUG 2016

Views of Proposed Concept Plans





EXISTING CONDITIONS - CONTEXT



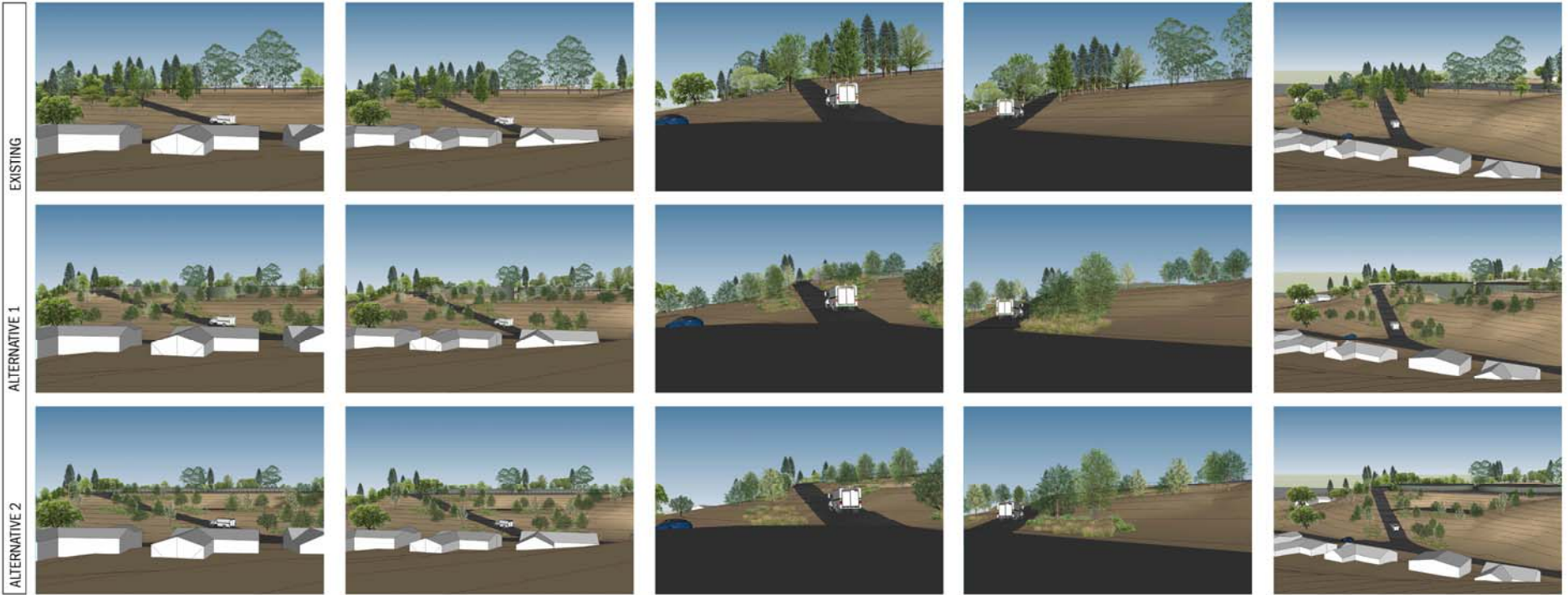
1391 Sunset Loop

1381 Sunset Loop

1050 Leland Drive

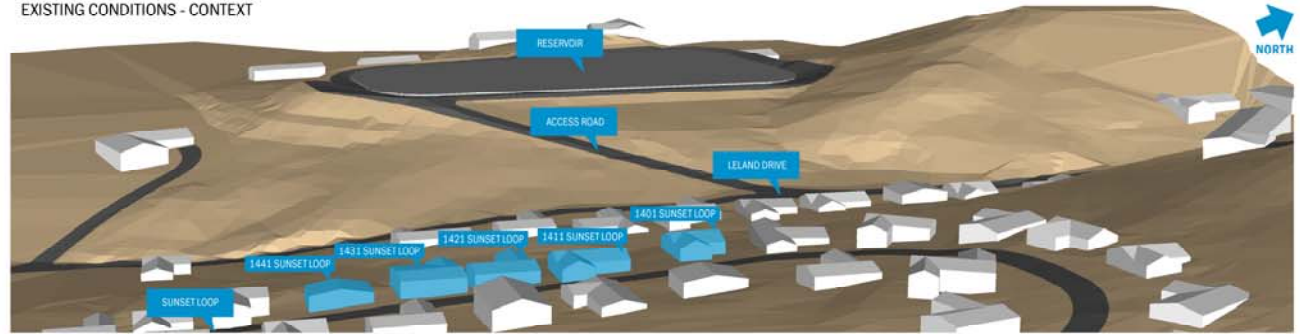
1052 Leland Drive

24 Ruth Court





EXISTING CONDITIONS - CONTEXT



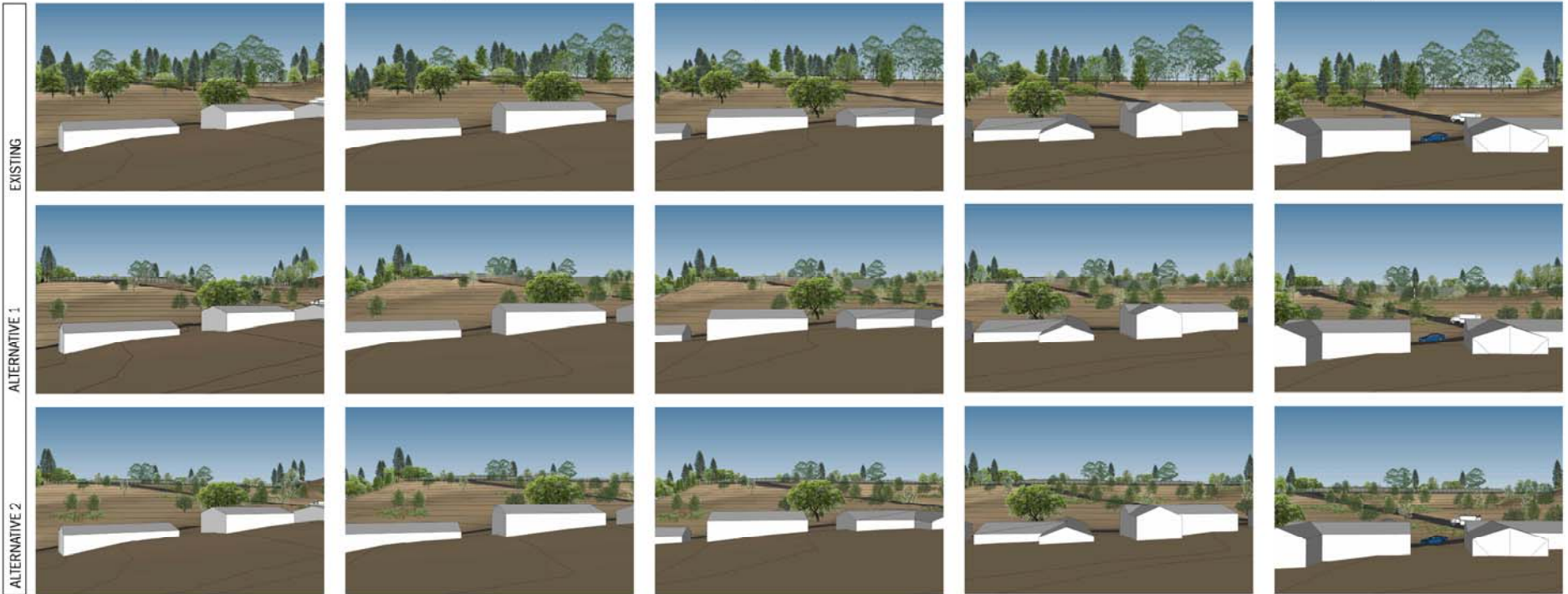
1441 Sunset Loop

1431 Sunset Loop

1421 Sunset Loop

1411 Sunset Loop

1401 Sunset Loop





EXISTING CONDITIONS - CONTEXT



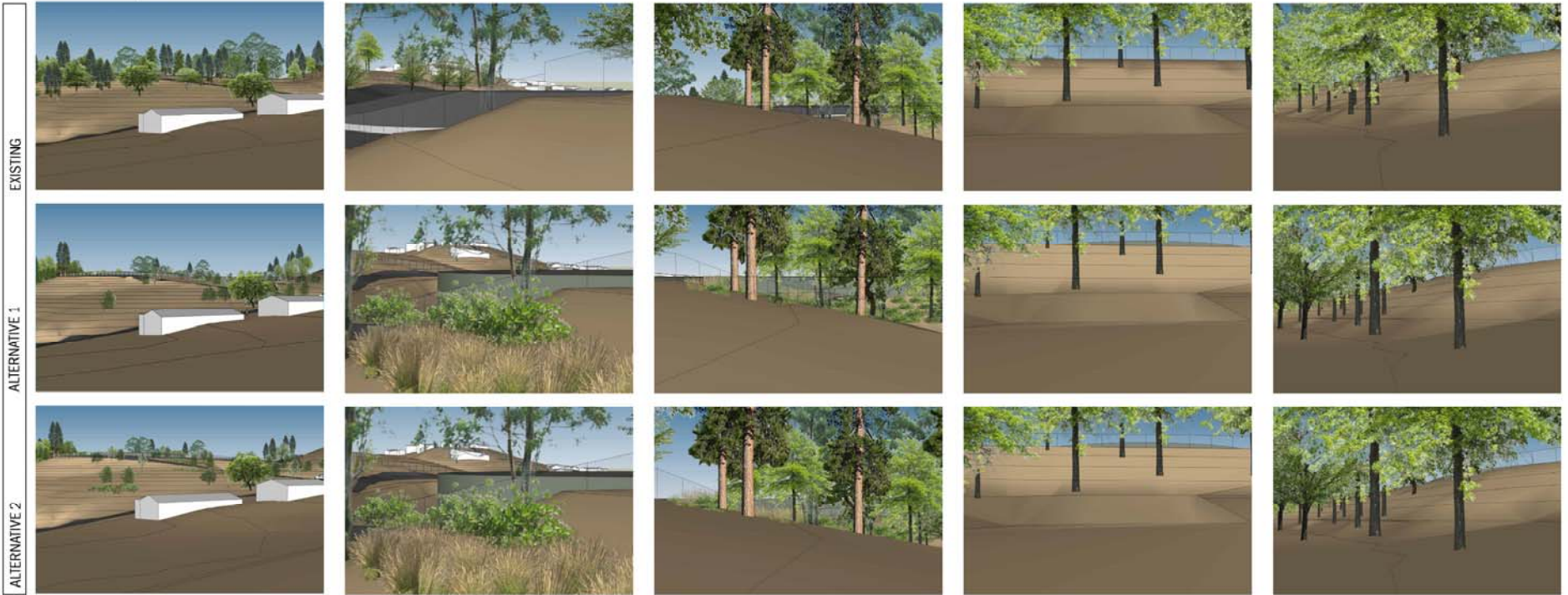
1451 Sunset Loop

3134 Maryola Court

3135 Maryola Court

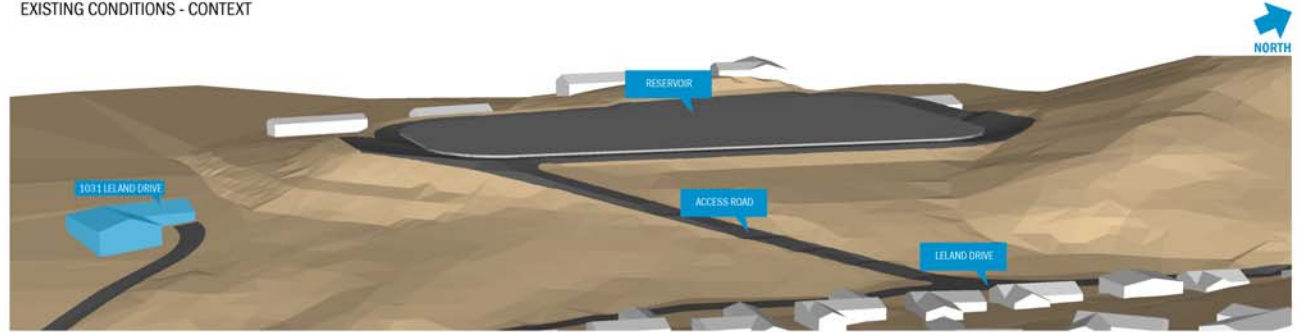
3132 Mars Court

3131 Mars Court

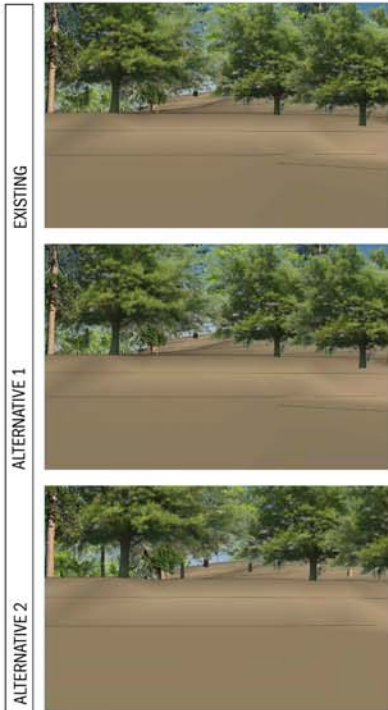




EXISTING CONDITIONS - CONTEXT



1031 LELAND DRIVE



SECURITY FENCE  
8-foot high, 1-inch black vinyl coated mesh with barbed wire

Leland Reservoir

Lafayette, CA  
03 AUG 2016

Views of Proposed Concept Plans







# Questions & Answers Community Feedback

Comments about project:

**Oscar Herrera, Project Manager**  
lelandreservoir@ebmud.com

General questions about EBMUD:

**Kathryn Horn, Community Affairs**  
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(510) 407-2710

